

# Somalia

## *Health system*



Ministry of Immigration  
and Integration

The Danish  
Immigration Service

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Cover photo: Entrance of the Forlanini Hospital in Mogadishu. September 2020.  
Photo by Tana

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## Disclaimer

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This report is written in alignment with the European Asylum Support Office's (EASO) methodology as well as EASO-MEDCOI's standards for medical country of origin information (COI).<sup>1</sup> The report is based on a variety of sources of information, including firstly interviews with carefully selected health sector actors at the policy level conducted by the Country of Origin Division, Danish Immigration Service and the Ministry of Immigration and Integration. Secondly, interviews with hospital and pharmacy managers at four different locations in South Central Somalia, and thirdly direct observations at hospitals and pharmacies in the same locations. The interviews with the health facility managers as well as the observations in their facilities in Somalia were conducted by a private consultancy company.

This report is not, and does not purport to be, a detailed or comprehensive survey of all aspects of the health system in Somalia. It should be weighed against other available COI about the situation in South Central Somalia with regard to availability and accessibility of medicines and specialised medical treatment. The present report does not include policy recommendations or analysis. The information in the report does not necessarily reflect the opinion of DIS or of the Ministry of Immigration and Integration.

Furthermore, this report is not conclusive as to the determination or merit of any particular claim to refugee status or asylum. Terminology used should not be regarded as indicative of a particular legal position.

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<sup>1</sup> EASO, *EASO Country of Origin Information Report Methodology*, June 2019, [url](#); Project MedCOI, *Guidelines for the Research and Use of Case-Specific MedCOI on Availability*, 2017; Project MedCOI - Belgian Desk on Accessibility, *Guidelines for the Research and Use of Case-Specific MedCOI on Accessibility and General MedCOI*, 2018

## Abbreviations

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**AIDS** – Acquired Immune Deficiency Syndrome

**AMISOM** – African Union Mission to Somalia

**ART** – Antiretroviral Therapy

**CDC** – Centers for Disease Control and Prevention

**COI** – Country of Origin Information

**CSO** – Civil Society Organisation

**CDS** – Communicable Diseases Surveillance

**DIS** – Danish Immigration Service

**EASO** – European Asylum Support Office

**EPHS** - Somali Essential Package of Health Services

**FGM** – Female Genital Mutilation

**FGS/SFG** – Federal Government of Somalia / Somali Federal Government

**FMoH/MoH** – Federal Ministry of Health / Ministry of Health

**FMS** – Federal Member States

**HC** – Health Centers

**HIV** – Human Immunodeficiency Virus

**ICRC** – International Committee of the Red Cross

**ICU** – Intensive Care Unit

**IDP** – Internally Displaced Person

**MedCOI** – Medical country of origin information

**NGO** – Non-governmental Organisation

**OCHA** – Office for the Coordination of Humanitarian Affairs

**ODI** – Overseas Development Institute

**OPD** – Outpatient Department

**PHU** – Primary Health Units

**RFC** – Referral Health Centers

**RH** – Regional Hospital

**Sida** – Swedish International Development Cooperation Agency

**STI** – Sexually Transmitted Infection

**TB** – Tuberculosis

**UAE** – United Arab Emirates

**UN** – United Nations

**UNHCR** – United Nations High Commissioner for Refugees / The UN Refugee Agency

**WATSAN** –Water, Sanitation and Hygiene

**WHO** – World Health Organization

## Executive summary

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The present report offers a description of the health system in Somalia in a situation where the country is affected by the Covid-19 pandemic outbreak. Based on interviews with hospital leaders, pharmacy managers, health sector actors as well as observations conducted in 15 health facilities in four different towns (Mogadishu, Kismayo, Beled Wayne, Baardheere), the report provides information on availability and accessibility aspects of medicines and specialised treatment in South Central Somalia.

The majority of health services are within primary health care, especially maternal and child health. The overall coverage of health care services is very limited with substantial rural/urban disparities: Hospitals, clinics and pharmacies in South Central Somalia are concentrated in the capital and in larger towns. Due to low technical capacity in the Federal Ministry of Health, the level of coordination between the federal member states is minimal. Health services are provided through public and private facilities. The private sector, including clinics run by international NGOs, UN-supported hospitals and for-profit facilities, is the dominating provider of health services. The private sector is to a large extent unregulated by the state.

The capacity of the Somali Federal Ministry of Health to prevent, detect and respond to health emergencies is weak. This was already the case before Covid-19 but this health emergency has been a challenge for the Ministry according to the interviewed sources. By August 2020, Somalia had had 3,310 confirmed cases, mostly in Mogadishu/the Banadir region. There were two hospitals, De Martino Hospital and Banadir Hospital, both in Mogadishu, which were equipped with quarantine facilities and trained nurses and doctors.

The availability of medicines is limited in South Central Somalia. None of the surveyed hospitals and pharmacies had all the requested medicines and the registration procedures varied. There is a National List of Essential Medicines, last updated in December 2019, but there is no central regulatory body which controls the quality of medicines in South Central Somalia. Even though cargo flights were allowed during the Covid-19 crisis, the distribution of medicines had been affected - but not to the extent that import of medicines was entirely interrupted.

Specialised medical treatment is limited in South Central Somalia. Treatment for HIV positive patients exists, including test, counselling and ART, but it is limited. The Forlanini Hospital in Mogadishu offers psychiatric treatment, including inpatient treatment, but female patients are not accepted at the ward. Cancer treatment is almost non-existent. Dialysis treatment is available but only in Mogadishu. For other specific diseases (cardiac complications and hypertension, diseases requiring surgery and chronic obstructive lung diseases) there are only limited treatment options. A few private hospitals in Mogadishu offer some specialised treatment but it is expensive. Those who can afford to travel abroad will seek specialised care in other countries.

There is no service which performs removal of tattoos in Somalia. Tattoos are considered against cultural norms and constitute a taboo in Somalia.

Discrimination based on clan affiliation was not found to be a significant barrier in access to health services given that the patient sought help in their area of origin where health workers were likely to be of same clan affiliation.

Women may experience multiple barriers in their access to health services because of their position in the family, their marital status or their age. These barriers include limited decision-making power in relation to major interventions and in their access to health services performed by male health workers. However, the representatives of the Federal Ministry of Health and WHO found that women enjoy the liberty to exercise their right to health services.

Access to health services in areas of unclear or mixed control is very limited. The available health services are those which al-Shabaab approves of. NGOs, ICRC or the UN run some health facilities but the services depend on these agencies' funding capacities.

Obstacles to reach health care mentioned by sources included but were not limited to geographical distance and cost of services. There is no national health insurance scheme available in Somalia. Patients may either seek health services which are provided free of charge at a government or an NGO run health facility or pay out of pocket at a private health facility.

## Map of Somalia

The map below shows the federal member states and Interim Regional Administrations.<sup>2</sup> The underlined cities were initially selected to be part of the present study, however Ceel Buur and Ceedheere were not accessible for the survey of this report due to security issues. For further details, please see page 12.



<sup>2</sup> Somalia refers to the territory which is internationally recognised. Somaliland refers to the northern region which proclaimed itself independent in 1991. Puntland refers to the north-eastern region which was established as a federal state in 1998. Britannica, Somalia, [url](#)  
DIS is solely responsible for the content of this map that is based on a map by the United Nations.

## Introduction and methodology

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### Purpose of report and terms of reference

The purpose of this report is to describe the health system<sup>3</sup> in Somalia and to present updated and reliable information on availability and accessibility aspects of medicines and specialised treatment. The report focuses on South Central Somalia, which means that information about the health system in Somaliland and Puntland is only included where such information will put the situation in South Central Somalia into perspective. The report is based on data collected inside Somalia from selected health facilities, on interviews over Skype or telephone with key health sector actors, as well as on written material.

This report has been initiated by the Country of Origin Information Division, Danish Immigration Service (DIS) in order to meet Country of Origin Information (COI) needs at a moment in time where there was little available information about medicine and specialised medical treatment in Somalia. Since 2018, MedCOI,<sup>4</sup> the first instance European provider of medical information for the use of processing asylum cases and cases concerning humanitarian residence permits, has not had a reliable provider or local contact that could collect data from Somalia.<sup>5</sup> To address this lack of information, the Country of Origin Information Division, DIS and the Ministry of Immigration and Integration (hereafter: the Ministry) has collaboratively developed the present report. It is based on terms of reference (ToR) which have been developed jointly by DIS and the Ministry. In the process of preparing the ToR, the Secretariat of the Danish Refugee Appeals Board and the Asylum Division of DIS, have been consulted. They identified the medical conditions for which information was needed and they also suggested six towns (Mogadishu, Kismayo, Beled Wayne, Baardheere and Ceel Buur (El-bur) or Ceeldheer), from where data should be collected. All of their inputs are reflected in the ToR. The medical conditions covered by this report are HIV/AIDS, cancer, mental health, kidney diseases, cardiac complications, spine surgery, chronic obstructive lung disease and removal of tattoos whereas any other services being offered by healthcare facilities in Somalia are not included in the present report.

The ToR is included in the report as appendix C.

### Methodology

The planning of the data collection as well as the drafting of this report has been guided by EASO-MedCOI's quality standards for COI; in particular their guidelines for availability and accessibility research for the use of case specific MedCOI.<sup>6</sup> The EASO MedCOI office was contacted early in the process and has offered valuable feedback and advice at various stages of the process, including on the design of questionnaire and comments on the results of the initial data collection in Mogadishu.

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<sup>3</sup> Following WHO, 'health system' is defined as all the organisations, institutions, resources and people whose primary purpose is to improve health. WHO, *Monitoring the Building Blocks of Health Systems*, 2010, [url](#), p. vi

<sup>4</sup> MedCOI is a project of European Member States plus Norway and Switzerland which collects medical information from countries and regions where asylum applicants come from. Between 2017 and 2020 the project is gradually being transferred to EASO. EASO, *EASO MedCOI Transfer Project*, [url](#)

<sup>5</sup> Project MedCOI, *BMA 12688*, 17 July 2020

<sup>6</sup> Project MedCOI, *Guidelines for the Research and Use of Case-Specific MedCOI on Availability*, 2017, Project MedCOI - Belgian Desk on Accessibility, *Guidelines for the Research and Use of Case-Specific MedCOI on Accessibility and General MedCOI*, 2018, EASO, *EASO Country of Origin Information Report Methodology*, June 2019, [url](#)

Data about availability and accessibility of specialised treatment and medicines has been collected through different sources: 1) interviews with healthcare workers/health facility managers and observations of health facilities inside Somalia; 2) interviews with health sector actors and 3) written material. The first part of the data consists of direct observations in South Central Somalia and in-persons interviews with health facility managers. These were conducted by a team of Somali-based consultants of the consultancy company Tana that was contracted by the Country of Origin Information Division, DIS. Because of the volatile security situation in Somalia, direct access to the different locations in the country turned out to be a logistics challenge, also in the light of the Covid-19 outbreak. Therefore, an international consultancy company, Tana Copenhagen, with a team of researchers and field assistants across Somalia was hired to carry out data collection on the ground, including observations and interviews. This company was chosen among other candidates based on their track record with Somalia, familiarity with the security situation inside the country as well as the company's experience with remote access data collection in places where the principal consultant was hindered in traveling.

The consultants used a mix of qualitative and quantitative methods to collect primary data from health facilities. In each of the towns, the team began by mapping existing health facilities (both public and private) including hospitals, HIV-clinics and pharmacies. Based on an analysis of the mapping a sample of three to six facilities were selected to represent both private and public health facilities, some run by NGOs and others by the public authorities. The facilities also differentiated by clinical specialisation. At each facility, a team member interviewed a health professional using a pre-defined survey design in the online survey tool SurveyMonkey. The team also spent time observing the entrance and waiting area at each health facility to gather information related to possible discrimination in access to health services. Where it was possible and appropriate, photos were taken at the facilities of the infrastructure as well as of the medicines for documentation purposes. In Mogadishu a pilot survey was conducted and the survey design was slightly modified (data from the pilot is included as one of the six surveyed health facilities in Mogadishu). The findings from this data collection are found in separate sub-studies which are available as appendixes to this report.

The questionnaire related to availability of selected medicines and specialised medical treatments was designed so that it followed EASO-MedCOI's definition of case-specific availability. Assessment of the availability of medicines was based on the presence of the inquired medicines in the researched facilities as advised by the manager of the facility according to the following three MedCOI-categories:<sup>7</sup>

- Medicine is available: the requested medicine is in principle registered in the country and available at a health facility in the selected town. At the time of investigation there are no supply problems.
- Medicine is partly available ('current supply problems'): 'supply problems' means that even though the medicine might be licensed in a country and used to be available, it is now confronted with interruptions in supply. If there is a time horizon for re-supply this should be noted as precisely as possibly.

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<sup>7</sup> Project MedCOI, *Guidelines for the Research and Use of Case-Specific MedCOI on Availability*, 2017, Project MedCOI - Belgian Desk on Accessibility, *Guidelines for the Research and Use of Case-Specific MedCOI on Accessibility and General MedCOI*, 2018, EASO, *EASO Country of Origin Information Report Methodology*, June 2019, [url](#)

- Medicine is not available: the medicine is neither registered nor available in any of the surveyed health facilities.

**Availability** refers to whether a given medicine or treatment is objectively obtainable in the country of origin without taking into consideration the individual circumstances of the applicant. **Accessibility**, by contrast, refers to an investigation of whether a given medicine or treatment would in reality be accessible to a specific individual, that is whether financial (price), geographical (in terms of accessibility via air or road and in relation to day/night security) or social issues (possibly discrimination in terms of access to health facilities based on clan and/or ethnic affiliation) would constitute a barrier. Accessibility is always based on the fact that a given medicine or treatment is available in the country of research.<sup>8</sup>

## Selection and validation of sources

Seven interviews with key health sector actors were conducted jointly by the Country of Origin Information Division, DIS and the Ministry. The interlocutors were selected based on the role of their organisation in health sector policy in Somalia and included representatives of the Federal Ministry of Health (FMoH), UN specialised agencies, western embassies and international development NGOs.

All sources demonstrated a high – and much appreciated – level of flexibility and interest in the production of this report. All interviews, except for one, which was conducted over email, were conducted over Skype or telephone. The Danish Embassy in Nairobi kindly assisted DIS and the Ministry in setting up meetings over Skype with relevant health sector sources.

The sources were informed about the purpose of the interview and the fact that their statements would be included in a report to be made publicly available. They were asked how they wished to be referenced, and all sources are introduced and quoted according to their own wishes. Some sources are referred to by the name of their organisation; several preferred to remain anonymous.

## Limitations

The intention of this report was to include information about the situation in either Ceel Buur (El-bur) or Ceeldheer. An attempt to collect data there from three health facilities via a local research assistant was undertaken, but the presence of al-Shabaab would make it difficult to reveal a satisfying level of details from the researched facilities. Furthermore, a measles outbreak in this area had affected the movements of the population. Therefore, due to the volatile security situation in Ceel Buur and Ceeldheer, and upon advice from the consultancy company, neither of these places is included in the present report.

This data collection was conducted as the Covid-19 pandemic progressed on the African continent, and particular attention was devoted to the planning, so that the selected health facilities were not visited while they may have been overburdened and to ensure that the team members (consultant and field assistants) took the required safety precautions during data collection. Some of the interviewed key health sector actors were not on their posts in Somalia but outside of the country due to Covid-19.

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<sup>8</sup> Project MedCOI - Belgian Desk on Accessibility, *Guidelines for the Research and Use of Case-Specific MedCOI on Accessibility and General MedCOI*, 2018

## Writing up of the report and peer review

The report has been drafted by DIS. Immediately after each interview a summary was written. It is not a full transcript of what was said, but rather a detailed summary with a focus on the elements of relevance for the ToR. All meeting notes were forwarded to the interlocutors for their approval and amendment. This gave them the opportunity to reflect on what they have said during the interview and to offer corrections. In the report, care has been taken to present the views of the interlocutors as accurately and transparently as possible and reference is made to the specific paragraphs of the meeting notes in the footnotes. All sources approved the meeting notes which are included in their full extent in Appendix B of this report.

The report is a synthesis of the sources' statements, data collected on the ground as well as relevant health system reports and academic articles.

The peer review of this report has been carried out both in content and form by EASO-MedCOI.

## Structure of report

The report begins with an introduction to the context, including the implications of weak state formation for health service delivery, then it continues with a general description of the structure of the health system in South Central Somalia, including available treatments. Then the findings related to availability and accessibility of medicines and specialised treatment are reported for each of the four locations respectively. A description of leadership and governance of the health sector, health information system, and health workforce is also included.

The appendices comprise the interview notes, the list of essential medicines as well as the four sub-studies conducted by the consultancy company. A detailed list of the medicines and specialised treatment (including their prices) by health facility can be found in the sub-studies.

The report was initiated in March 2020 and was finalised in November 2020. It is available on the website of DIS [www.newtodenmark](http://www.newtodenmark).

# 1. The context of the health system in Somalia

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## 1.1. State formation

Formed in 1960, Somalia is a young nation which has been affected by political unrest and violence since the collapse of the Siad Barre government in 1991.<sup>9</sup> In 2012, a new federal government was formed and a provisional constitution was adopted. The aim of this new government was to build a federal state on long-term clan structures and where political participation and power reflect clan power at all levels of society.<sup>10</sup> Clan systems matter for all functions of society, including the public sector.<sup>11</sup> However, continual armed

<sup>9</sup> Britannica, Somalia, [url](#), Chatham House, *Somalia's Federal Future. Layered Agendas, Risks and Opportunities*, September 2015, [url](#), pp. 5-6, DIS & DRC, *South and Central Somalia – Security Situation, al-Shabaab Presence, and Target Groups*, 2017, [url](#), p. 27, WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, [url](#), p. 23, ACCORD, *Clans in Somalia*, 15 May 2009, 15 December 2009, [url](#), p. 5

<sup>10</sup> Britannica, Somalia, [url](#), Chatham House, *Somalia's Federal Future. Layered Agendas, Risks and Opportunities*, September 2015, [url](#), pp. 4-6, Saferworld, *Clans, contention and consensus: Federalism and inclusion in Galmudug*, June 2020, [url](#), p. 21

<sup>11</sup> Lifos, *Government and Clan system in Somalia. Report from Fact Finding Mission to Nairobi, Kenya, and Mogadishu, Hargeisa and Boosaaso in Somalia in June 2012*, 5 March 2013, [url](#), UK Home Office, *Country Policy and Information Note Somalia: Majority clans*

conflict and violence towards civilians still prevail: in spite of progress made, indicators for state stability, including the capacity to build a functional health care system, remain poor.<sup>12</sup> This also affects the Federal Ministry of Health which was described as being in a ‘chronic emergency situation’ by an interviewed consultant from the ministry.<sup>13</sup>

Despite attempts of political reform and fight against corruption, Somalia was ranked 2<sup>nd</sup> out of 178 countries on the Fragile States Index in 2020.<sup>14</sup> In 2019, it was listed 180 out of 198 in the *Corruption Perceptions Index*.<sup>15</sup> State fragility is exacerbated by the fact that Somalia is a poor and heavily indebted country.<sup>16</sup> The World Bank notes that poverty is ‘pervasive throughout the country’, but the Bank also states that poverty is ‘deeper among rural residents and nomads’ compared to those residing in urban areas.<sup>17</sup>

Somalia consists of three different zones: South Central Somalia, Somaliland and Puntland. Each zone has its own administrative health system structure, thus health service delivery and the underlying support system differ between the three zones.<sup>18</sup> An effect of a state fragility is that the government cannot ensure a uniform supply of health service delivery across the country; whereas primary healthcare has improved in Somaliland and Puntland, the situation in South Central Somalia has not, according to a baseline study on Somalia’s healthcare system.<sup>19</sup> In the absence of strong national governance, healthcare services are being offered by multiple actors including the federal state, local authorities, private for-profit entrepreneurs, international development partners and international NGOs.<sup>20</sup> According to findings from a qualitative study in Mogadishu, the private sector has become the dominant healthcare provider, an observation which was shared by UNFPA.<sup>21</sup>

One of the obstacles to the provision of basic social services across South Central Somalia is Al-Shabaab. Since its foundation in 2006, the insurgent group has conducted attacks on military targets as well as on soft non-military targets such as government facilities.<sup>22</sup> Al-Shabaab has, according to the Overseas Development Institute (ODI), routinely expelled, harassed and attacked aid workers who were engaged in

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and minority groups in south and central Somalia, January 2019, [url](#), p. 13, DIS, *South and Central Somalia - Security situation, forced recruitment, and conditions for returnees*, July 2020, [url](#), p. 16

<sup>12</sup> Gele, AA et al, *Beneficiaries of Conflict: A Qualitative Study of People’s Trust in the Private Health Care System in Mogadishu, Somalia*, Risk Management Healthcare Policy, 2017, [url](#), WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, p. 23

<sup>13</sup> FMOH: 1

<sup>14</sup> The Fund for Peace, *Fragile State Index 2020*, [url](#)

<sup>15</sup> Transparency International, *Corruption Perceptions Index 2019*, [url](#)

<sup>16</sup> World Bank, *The World Bank in Somalia*, March 23, 2020, [url](#)

<sup>17</sup> World Bank, *Somalia Economic Update*, August 2019, [url](#), p. VI

<sup>18</sup> WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, [url](#), p. 23

<sup>19</sup> HIPS & City University of Mogadishu, *Somalia’s Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), pp. 14, 17

<sup>20</sup> HIPS & City University of Mogadishu, *Somalia’s Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), pp. 13-14

<sup>21</sup> Gele, AA et al, *Beneficiaries of Conflict: A Qualitative Study of People’s Trust in the Private Health Care System in Mogadishu, Somalia*, Risk Management Healthcare Policy, 2017, [url](#), UNFPA: 5

<sup>22</sup> Netherlands Ministry of Foreign Affairs: *Country of Origin Information Report on South and Central Somalia*, March 2019, [url](#), p. 10

providing basic social services to the population.<sup>23</sup> In May 2020, seven health workers and one civilian were abducted and killed at a healthcare centre run by Zamzam Foundation, in Gololey village, South Somalia.<sup>24</sup>

## 1.2. Demography and health indicators

The population of Somalia is estimated to be 15.44 million persons.<sup>25</sup> They can be divided between those who live in urban areas (51 percent), those living in rural areas (23 percent) and those living in nomadic areas (26 percent).<sup>26</sup> The World Bank found that rural residents and nomads are harder to reach with basic social services than those residing in the cities.<sup>27</sup> It is a young population (about half of the citizens are under 15) with a low life expectancy (life expectancy at birth was 56.7 years).<sup>28</sup> The current birth rate is 6.9 children<sup>29</sup> and the population growth is 2.9 percent.<sup>30</sup> As a consequence, the country will experience a significant population growth in the coming years, which will mean increased demand for health services.<sup>31</sup>

## 1.3. Burden of disease – basic data

The burden of disease in Somalia is high and poverty- and conflict-driven.<sup>32</sup> Malnutrition among children is acute and chronic, and infant mortality is high.<sup>33</sup> Although the country has achieved results in reducing maternal mortality, it still remains among the highest in the world and so does the fertility rate.<sup>34</sup> Also, tuberculosis (TB), an airborne, curable and preventable disease which typically affects the poorer population groups of society, is prevalent in Somalia to the extent that the country has one of the highest incidences of multi-drug resistance to tuberculosis in the world.<sup>35</sup> Infectious diseases dominate, partly due to poor water and sanitation facilities (under 45 percent of the population has access to improved water sources) and difficulties in upholding safe hygiene practices.<sup>36</sup> However, non-communicable diseases are on the rise with mental health problems becoming more prevalent, and one source that was interviewed during a Finish Fact Finding mission to Mogadishu estimated 30 percent of the Somali population is affected by mental health issues.<sup>37</sup>

<sup>23</sup> Global Conflict Tracker, *al-Shabaab in Somalia*, 2020, [url](#), ODI, *Al-Shabaab engagement with aid agencies*, 2013, [url](#), p. 1

<sup>24</sup> UNICEF, *Statement on the abduction and killings of NGO health workers*, 29 May 2020, [url](#)

<sup>25</sup> HIPS & City University of Mogadishu: *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 8

<sup>26</sup> Directorate of National Statistics, *The Somali Health and Demographic Survey 2020*, [url](#), p. 3

<sup>27</sup> World Bank, *Somalia Economic Update*, August 2019, [url](#), p. VI

<sup>28</sup> Directorate of National Statistics, *The Somali Health and Demographic Survey 2020*, [url](#), pp. 74-75, UNDP, *Human Development Indices and Indicators, 2018 Statistical Updates*, [url](#), p. 25

<sup>29</sup> Directorate of National Statistics, *The Somali Health and Demographic Survey 2020*, [url](#), pp. 74-75

<sup>30</sup> World Bank, *Somalia Economic Update*, August 2019, [url](#), p. 3

<sup>31</sup> Directorate of National Statistics, *The Somali Health and Demographic Survey 2020*, [url](#), pp. 74-75

<sup>32</sup> Global Burden of Disease Project, *GBD Profile: Somalia*, 2010, [url](#)

<sup>33</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 34, WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, [url](#), p. 23

<sup>34</sup> Aden, JAA et al, *Causes and contributing factors of maternal mortality in Bosaso District of Somalia. A retrospective study of 30 cases using a Verbal Autopsy approach*, *Global Health Action*, 2019; 12(1), [url](#)

<sup>35</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 25

<sup>36</sup> UNICEF, *Water, sanitation and hygiene*, n.d. [url](#), HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 23

<sup>37</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 34

**Figure 1: Burden of disease – basic data**

<b>Life expectancy at birth</b>	55.7 (2018) <sup>38</sup>
<b>Death rate</b>	10.8 (2018) <sup>39</sup>
<b>Fertility rate</b>	6.9 <sup>40</sup>
<b>Maternal mortality rate</b>	692/100,000 live births (2020) <sup>41</sup>
<b>Infant (under 1) mortality rate</b>	85/1,000 live births (2015) <sup>42</sup>
<b>Tuberculosis</b>	274/100,000 population <sup>43</sup>
<b>HIV/AIDS – adult prevalence rate</b>	Under 1 percent <sup>44</sup>
<b>Government health expenditure (including development assistance) per capita</b>	9.8-12 USD <sup>45</sup>
<b>Out-of-pocket health expenditure</b>	6-7.4 USD <sup>46</sup>
<b>% of population with access to improved water source</b>	Under 45 percent <sup>47</sup>

#### 1.4. Health workers affected by internal displacements

An effect of the extended conflicts that Somalia has gone through during the past two decades is high level of population displacement. The number of internally displaced persons (IDPs) is 2,218,000 persons.<sup>48</sup> According to a baseline study on the development of human capital in the health sector, this mass population displacement has affected the health work force in at least two ways. First, more than 600 qualified doctors, nurses, midwives and skilled health technicians have migrated overseas. Secondly, qualified health workers have moved from the less secure rural areas of the country to the more secure urban localities resulting in an unbalanced allocation of health workers between rural and urban and between public and private health facilities. One of the implications is that outreach services to people living in rural or nomadic areas are weakened.<sup>49</sup>

#### 1.5. Flooding and locust outbreak

Agriculture is the pillar of the Somali economy, which makes the population vulnerable to any man-made and natural disasters which affect agriculture. Heavy rainfalls have caused massive flooding in several regions of the country and thousands of people have lost their farms and homes in 2020.<sup>50</sup> By June 2020,

<sup>38</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 18

<sup>39</sup> World Bank, *Death rate, crude (per 1,000 people) – Somalia*, [url](#)

<sup>40</sup> Directorate of National Statistics, *The Somali Health and Demographic Survey 2020*, [url](#), p. 75

<sup>41</sup> Directorate of National Statistics, *The Somali Health and Demographic Survey 2020*, [url](#), p. XXXi, 274, 279

<sup>42</sup> WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, [url](#), p. 23

<sup>43</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 25

<sup>44</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 24

<sup>45</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p.19

<sup>46</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p.19

<sup>47</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 23

<sup>48</sup> UNHCR, *Estimated IDPs at sites assessed by CCCM (in 48 districts) JSON*, last updated 09 Apr 2020, [url](#)

<sup>49</sup> WHO, *The Somali Human Resources for Health Development Policy 2016-2012*, April 2016, [url](#), p. 4

<sup>50</sup> World Bank, *Somalia Economic Update*, August 2019, [url](#), p. 2, BAMF, Briefing Notes 4 May 2020, 4 May 2020, [url](#), p. 8

flooding had displaced more than 450,000 persons and this displacement may increase the vulnerability to infectious diseases, in particular to Covid-19, for those displaced persons.<sup>51</sup>

In 2020, East Africa has been victim of an invasion by swarms of desert locusts, a destructive migratory pest. Northern and south-central parts of Somalia are affected by locusts posing a risk to food security with crop and pasture loss.<sup>52</sup> In February 2020 the Ministry of Agriculture declared it a national emergency.<sup>53</sup> The World Bank projects important losses and damages from the locust outbreak. Under normal circumstances, locust outbreaks are controlled via ground spraying.<sup>54</sup> However, Covid-19 restrictions have meant that it has been difficult to organise spraying due to travel restrictions and due to disruption in access to essential control equipment and services.<sup>55</sup> Combined with the Covid-19 outbreak the locust outbreak has resulted in an increased number of people in Somalia who are expected to experience acute food insecurity; from 1.2 million in February to 1.6 million in June-September 2020.<sup>56</sup>

## 1.6. Covid-19 pandemic and implications for the health system in Somalia

### *Epidemiology*

The first cases of Covid-19 infection in Somalia were reported on 16 March 2020.<sup>57</sup> By August 2020, at the time of data collection for the present report, the numbers had surged to 3,310 confirmed cases.<sup>58</sup> However, the number of daily confirmed cases continued, as of August 2020, to decline.<sup>59</sup>

The majority of cases were concentrated in the Mogadishu/the Banadir region.<sup>60</sup> By July 2020, the number of patients who had recovered was 1,562 and the number of deaths was 93.<sup>61</sup> According to the assessment of the interviewed official of the FMOH, Somalia had been spared (by August 2020) the worst impacts of this pandemic outbreak compared to other countries.<sup>62</sup>

### *Response*

In response to the pandemic outbreak, the Government adopted a stepwise approach consisting of a population component and a health system component. The first component was general population awareness campaigns about transmission routes and prevention, so that the population was well informed on how to react to clinical symptoms. The campaign consisted of 5,302 TV broadcasts, 6,659 radio

<sup>51</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 8, UNHCR, *Floods drive over 650,000 Somalis from their homes in 2020*, August 2020, [url](#), UNHCR, *Somalia: operational update*, May 2020, [url](#), p. 2

<sup>52</sup> USAID, *Food Assistance Fact Sheet - Somalia*. Updated April 30, 2020, [url](#)

<sup>53</sup> Reliefweb, *Somalia Declares National Emergency over Locust Upsurge*, February 2020, [url](#)

<sup>54</sup> Acaps, *Outbreak in East Africa: Desert Locusts and Covid-19*, Briefing Note, May 2020, [url](#), p. 3

<sup>55</sup> World Bank, *The World Bank in Somalia*, March 23, 2020, [url](#), World Bank, *The locust plague: Fighting a crisis within a crisis*, April 14, 2020, [url](#)

<sup>56</sup> USAID, *Food Assistance Fact Sheet - Somalia*. Updated April 30, 2020, [url](#)

<sup>57</sup> WHO, *COVID-19, locusts, flooding: WHO and triple threat in Somalia*, 23 June 2020, [url](#)

<sup>58</sup> Johns Hopkins University, *Corona Virus Resource Center, World Map*, [url](#), UN OCHA: *Somalia: COVID-19 Monthly Report*, August 2020, [url](#)

<sup>59</sup> UN OCHA, *Somalia: COVID-19 Monthly Report*, August 2020, [url](#)

<sup>60</sup> UN OCHA, *Somalia: COVID-19 Monthly Report*, August 2020, [url](#)

<sup>61</sup> UN OCHA, *Somalia: COVID-19 Monthly Report*, August 2020, [url](#), Johns Hopkins University, *Corona Virus Resource Center, World Map*, [url](#)

<sup>62</sup> FMOH: 14

broadcasts and 1,068,125 SMS broadcasts.<sup>63</sup> The health system component included the preparation of one hospital with quarantine facilities (the De Martino Hospital),<sup>64</sup> training of the health workforce (nurses and doctors) in case management, enhanced disease surveillance and increased laboratory capacity. Later on, the Banadir Hospital in Mogadishu has dedicated one wing to the Covid-19 response including a quarantine facility with 87 rooms and 300 beds.<sup>65</sup>

The first global mapping of intensive care unit (ICU) beds, which was published in the beginning of the Covid-19 epidemic, found that Somalia, as other Sub-Saharan African countries with the exception of South Africa, has very limited capacity to intubate and ventilate patients.<sup>66</sup> Another study which also addresses the critical care capacity during the Covid-19 situation notes that ‘...there is no proper oxygen generation plant; there are few laboratory machines; there is a shortage of testing equipment and medical supplies; and a severe shortage of personal protective equipment (PPE) across all hospitals. There are ongoing efforts by the federal government to procure diagnostic kits, ventilators and other medical supplies. Meanwhile, donations of medical equipment and supplies have arrived from the WHO, China, the UAE, Turkey and Italy.’<sup>67</sup>

### *Federal Ministry of Health (FMoH)*

During the spring of 2020, the Federal Ministry of Health (FMoH) was hit by suspicions about mismanagement of donor aid. Some of the donations received by the Ministry to fight Covid-19 as well as to curb HIV/AIDS could not be accounted for. Consequently, several officials working at the FMoH, including the Director-General, were arrested and charged with corruption and mismanagement of funds. By August 2020, four senior FMoH officials, including the Director of Administration and the Head of Accounting as well as three other staff members, were convicted by the Banadir Regional Courts in Mogadishu and sent to prison. The accused persons were sentenced five to 18 years of prison. One person was punished with a fine of USD 2,366 for violating articles 241 and 363 of the Public Officers Act as well as for offending article 241 for diverting public money for personal use and banned from holding public office in the future and was also sentenced to nine years of prison.<sup>68</sup> According to the FMoH, the Ministry had been in disarray as a consequence of these verdicts but the convicted officials have been replaced.<sup>69</sup>

<sup>63</sup> UN OCHA, *Somalia: COVID-19 Monthly Report*, August 2020, [url](#), DIIS, *Mogadishu in the time of COVID-19*, April 2020, [url](#)

<sup>64</sup> Somali Affairs, *Somalia launches new Covid-19 quarantine center*, July 2020, [url](#), FMoH: 13

<sup>65</sup> Somali Affairs, *Somalia launches new Covid-19 quarantine center*, July 2020, [url](#), FMoH: 13

<sup>66</sup> Ma X and Vervoort D, *Critical care capacity during the COVID-19 pandemic: Global availability of intensive care beds*, *Journal of Critical Care*, Vol 58, August 2020, [url](#), pp. 96-97

<sup>67</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 66

<sup>68</sup> Hiiraan online, *Health Ministry Director General gets 9 years in jail, three others jailed in corruption scandal*, 24 August 2020, [url](#), Garowe online, *Somalia court jails senior health ministry officials for corruption*, 24 August 2020, [url](#), Goobjoog News, *Landmark ruling: four senior health officials get 5-18 years in graft scam*, 24 August 2020, [url](#), All Africa, *Somalia: Police Arrested Senior Official With Health Ministry Over Corruption*, 5 April 2020, [url](#), A UN organisation: 1

<sup>69</sup> FMoH: 3

### *Restrictions on movements and medication supply*

By March 2020, Somali airports were closed to passenger flights but key airports stayed open for cargo flights.<sup>70</sup> The Government forbade public meetings and closed schools and universities; by August 2020, the authorities were in the process of reopening academic institutions according to health guidelines.<sup>71</sup>

The suspension of most national and international flights in Somalia affected the import of medicines according to the FMOH. Since no medicines in Somalia are produced locally, most medicines must be imported via air.<sup>72</sup> However, WHO advised that the government had ensured free and safe movement of cargo planes into Somalia, and in that sense import of medicines and medical supplies was not completely suspended. There have, however, been a lot of interruptions of supply chains, especially for the Covid-19 response but also for medicines for chronic diseases. Materials have been delayed and WHO had to borrow protection equipment from Kenya.<sup>73</sup> In at least one of the health facilities included in the sample for this report in Baardheere town, the supply of medicines had been negatively affected by the Covid-19 pandemic outbreak.<sup>74</sup>

As of August 2020, 11 out of 12 airports were reported to be open for passengers and cargo and so were all of Somalia's eight ports. By contrast, only one out of 21 border crossings were open.<sup>75</sup> An overview of the status of open airports, ports and border crossings can be seen on the map below.

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<sup>70</sup> UN OCHA, Somalia: *COVID-19 Quarterly Report*, March-June 2020, [url](#), DIIS, *Mogadishu in the time of COVID-19*, April 2020, [url](#)

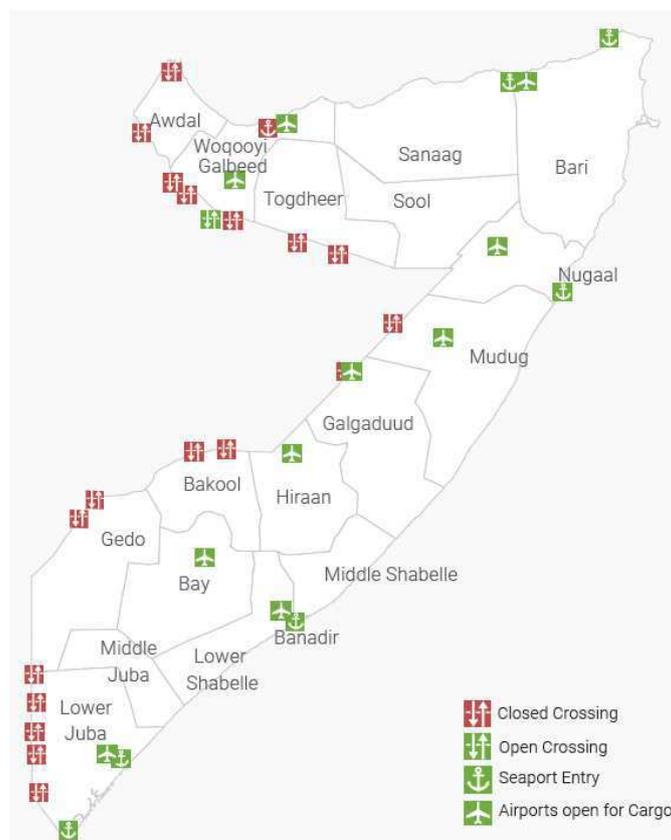
<sup>71</sup> UN OCHA, Somalia: *COVID-19 Monthly Report*, August 2020, [url](#)

<sup>72</sup> FMOH: 13

<sup>73</sup> WHO: 11

<sup>74</sup> Tana Sub-Study: Baardheere, p. 4

<sup>75</sup> UN OCHA, Somalia: *COVID-19 Monthly Report*, August 2020, [url](#)

Figure 2: Map of airports, ports and border crossing status, August 2020<sup>76</sup>

Procurement has not yet normalised, but according to the interviewed representatives of WHO's country office, things are 'definitely' getting better (June 2020).<sup>77</sup> Another negative effect of the suspension of national and international flights was that the free movement of health workers (national and international) has been disturbed.<sup>78</sup> With international flights being authorised to resume, the free movement of aid workers and that of supplies is expected to improve.<sup>79</sup>

### *Al-Shabaab and Covid-19*

FMoH advised that al-Shabaab has spread much false information about the disease.<sup>80</sup> Somali and international researchers from the Danish Institute for International Studies have described how al-Shabaab has claimed that Muslims will not be infected and it has accused 'infidels' and 'foreign invaders' for bringing Corona virus into Somalia.<sup>81</sup> However, according to the FMoH, the organisation had over time changed its position and recognised that the Covid-19 outbreak was also a problem in their areas of control. Al-Shabaab began to allow the population to listen to government diffused information on the radio and television about how to prevent the spread of the Corona virus.<sup>82</sup> According to an al-Shabaab-

<sup>76</sup> UN OCHA, Somalia: *COVID-19 Monthly Report*, August 2020, [url](#)

<sup>77</sup> WHO: 11

<sup>78</sup> FMoH: 14

<sup>79</sup> UN OCHA, Somalia: *COVID-19 Monthly Report*, August 2020, [url](#)

<sup>80</sup> FMoH: 15

<sup>81</sup> DIIS, *Mogadishu in the time of COVID-19*, April 2020, [url](#)

<sup>82</sup> FMoH: 15

affiliated radio station, al-Shabaab has positioned itself as a provider of basic health services to the population in its stronghold in the town of Jilib, southern Middle Juba region, and has opened a Covid-19 treatment centre in this town.<sup>83</sup> No other sources have been found to confirm this.

## 2. Service delivery

In Somalia, public health care may be delivered from facilities which are run by the Somali authorities and international NGOs with external donor financing.<sup>84</sup>

Most of the services provided at the public healthcare facilities, including hospitals, are within primary health care,<sup>85</sup> especially maternal and child health.<sup>86</sup> The six core programmes in Somali public health facilities are i) Maternal, reproductive health, neonatal health and nutrition; ii) child health and nutrition; iii) CDC (center for disease control), surveillance and WATSAN (water and sanitation); iv) first aid and care of critically ill and injured; v) treatment of common illnesses; and vi) HIV, sexually transmitted infections (STI) and tuberculosis (TB).<sup>87</sup>

One study found that healthcare services in Somalia are ‘substandard’ and the study stated that the challenges range from a: ‘lack of funding, weak management, weak human resource base, weak retention and motivation schemes, inadequate and broken referral systems and diagnostic services to a poor enabling environment, weak and unregulated health professional education institutions, lack of health regulatory frameworks and ineffective professional boards and councils to monitor codes of conduct and professional ethics.’<sup>88</sup> Another health system analysis, but this one with a focus of maternal care, a core component of public health in Somalia, found a similar picture. This study found that substandard management at the health facility was a high-risk factor for maternal death in Somali hospitals. Even if the birth-giving woman overcame transportation challenges and managed to reach a health facility, she was at risk of dying because of delays in receiving prompt and adequate care at the facility.<sup>89</sup>

### 2.1. Infrastructure

There are four different levels of public health facilities in Somalia:<sup>90</sup>

- Primary Health Units (PHUs): located in the rural areas and the most frequent infrastructure
- Health Centers (HCs): at the sub-district level

<sup>83</sup> Radio Andalus, *Covid-19: Somalia's al-Shabab opens treatment centre*, 12 June 2020, BBC Monitoring

<sup>84</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), pp. 38-39

<sup>85</sup> FMoH: 9, WHO: 4, A development NGO: 19, Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 35.

<sup>86</sup> Maternal health refers to measures taken for control and improve health during pregnancy, childbirth and the postnatal period. New born and child health consists of child immunisation, treatment of common diseases, nutrition. WHO, *Maternal, newborn, child and adolescent health*, [url](#)

<sup>87</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 13

<sup>88</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 38

<sup>89</sup> Aden, JA, et al., *Causes and contributing factors of maternal mortality in Bosaso District of Somalia. A retrospective study of 30 cases using a Verbal Autopsy approach*, Global Health Action, 2019; 12(1), [url](#)

<sup>90</sup> WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, [url](#), p. 24

- Referral Health Centers (RFCs): at the district level
- Regional Hospitals (RHs): located in the regional capitals

In addition to these levels, the public health care sector comprises specialised facilities: Tuberculosis Centers (TBCs), Computed Tomography/Antiretroviral Therapy (CT/ART) facilities and Mental Health Centers (MHCs).<sup>91</sup>

According to the HIPS & City University of Mogadishu there were in 2019 a total of 661 operational public health facilities across the federal states of Somalia: 305 in Puntland, 92 in Galmudug, 93 in Jubbaland, 81 in Hirshabelle, 61 in Banadir and 29 in the Southwest.<sup>92</sup> As illustrated by the map below, and as recognised by the FMoH, the number of functional health services is unequally distributed across the country and is particularly low in the southern and central regions.<sup>93</sup> Health infrastructure, private as well as public, is concentrated in the capital and in major towns where security is better compared to rural areas which may be under mixed control or al-Shabaab control.<sup>94</sup>

**Figure 3: Map of health facilities in Somalia as of 2020<sup>95</sup>**



A baseline survey of the Somali healthcare system states that the density of health facilities is 1.69 per 10,000 population in 2017, which can be broken down to 0.76 public facilities and 0.93 private facilities per 10,000 population. The hospital bed density is 8.7 per 10,000 population and the essential health workforce (medical doctor, nurse or midwife) per 1000 population is 0.4.<sup>96</sup> In 2016, WHO determined in an analysis of

<sup>91</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), pp. 10-11

<sup>92</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 39

<sup>93</sup> FMoH: 8

<sup>94</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 38

<sup>95</sup> WHO, HeRAMS - Health Resources and Services Availability Monitoring System, *Somalia*, [url](#)

<sup>96</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 19

global health workforce requirements that a minimum threshold of skilled health workers (medical doctor, nurse or midwife) is 4.45 per 1000 population.<sup>97</sup>

**Figure 4: Functional public health facilities by state as of 2019<sup>98</sup>**

Public Health Facilities by State / Region 2019							
	Banadir	Hirshabelle	Jubaland	Galmudug	Southwest	Puntland	Grand Total
Total	61	81	93	92	29	305	661

In 2016, the number of 'operational and accessible' public and private health facilities combined were found to be 799, according to the *Service Availability and Readiness Assessment (SARA)*, which is a census of all health facilities in Somalia. This assessment which was conducted by the Somali authorities and WHO found a total of 1,074 public and private health facilities in Somalia, but only 799 of these were operational.<sup>99</sup>

The amount of technical and physical equipment at the health facilities (all levels combined) in Somalia is inadequate: 41 percent have no consultation room, 46 percent have no access to improved water sources, 72 percent have no power source and 84 percent have no means of transportation to refer patients in need of emergency treatment to hospitals.<sup>100</sup>

## 2.2. Primary health units (PHU) and health centers (HC)

As noted earlier, most health services in Somalia are at the level of primary healthcare and consist of mother and child health services.<sup>101</sup> These services are principally delivered from primary health units (PHU) (sometimes also referred to as health posts) which form the lowest level of the health pyramid (with university hospitals at the top of the pyramid). PHUs are community-based facilities and offer only limited curative and preventive services and some outreach activities in the local communities. Health centers (HC) offer some basic preventive and curative services with a focus on maternal and child health (deliveries, immunisations and nutrition) and essential health services to the general population. They are therefore sometimes referred to as maternal and child health centers. In rural and hard to reach areas, PHUs or HCs are the health facilities within reach for the local population, not hospitals.<sup>102</sup>

<sup>97</sup> WHO, *Health Workforce Requirements for Universal Health Coverage and the Sustainable Development Goals*, 2016, [url](#), pp. 6 - 10

<sup>98</sup> HIPS & City University of Mogadishu: *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, p. 41, [url](#)

<sup>99</sup> WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, [url](#), p. 26

<sup>100</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 12

<sup>101</sup> WHO: 4, FMOH: 9, A development NGO: 19, Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 35

<sup>102</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 38, WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, [url](#), p. 24

### 2.3. Hospitals

The majority of health facilities in Somalia are located in the capital and greater cities; the number outside of urban areas is limited.<sup>103</sup> According to a UNHCR representative interviewed in Mogadishu by a Finnish delegation in March 2020, there are a total of 61 hospitals in Somalia, and 11 of these are public facilities.<sup>104</sup> Hospitals may be run by the Somali health authorities, international NGOs, UN or in collaboration with other national governments (e.g. Turkey) according to the findings in the sub-studies produced by the consultancy company.<sup>105</sup>

None of the researched hospitals in the sample for this report provide the full range of secondary or tertiary (higher-level) care. According to another study ‘the majority’ of the hospitals do not provide all secondary or tertiary services and are only functional for a limited range of services.<sup>106</sup>

Banadir hospital in Mogadishu is a university hospital and one of the largest hospitals in Somalia. According to the director of the Banadir Hospital, who was interviewed in 2018 by the Finnish Immigration Service during their fact-finding mission to Mogadishu, the hospital is ‘well equipped’. However, it only undertakes basic operations and no advanced treatments such as cancer treatment.<sup>107</sup>

The Somali Turkish Recep Tayyip Erdogan Training and Research Hospital (also referred to as either the Turkish Hospital or the Erdogan Hospital) in Mogadishu is considered by a UN source as the leading hospital in the country in terms of capacity.<sup>108</sup> FMOH emphasises that this hospital holds a special position in the health sector and considers it as a public hospital.<sup>109</sup> It was built and funded by the Turkish government in the 1960s and reopened and refurbished in 2015, in a time where Turkey is investing considerably in Somalia. It is partially staffed by Turkish health personnel but has a training component for Somali doctors.<sup>110</sup> It is co-managed by the Somali and the Turkish authorities.<sup>111</sup>

Hospitals outside of the capital have less well-functioning infrastructure.<sup>112</sup>

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<sup>103</sup> Warsame, Adbihamid, Handuleh Jibril and Patel Preeti, *Prioritization in Somali health system strengthening: a qualitative study*, *Int Health*, Int Health. 2016 May;8(3):204-10, [url](#), p. 1, Tana Sub-Study: Mogadishu, p. 8

<sup>104</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, 7 August 2020, p. 31

<sup>105</sup> Tana Sub-Study: Mogadishu, Kismayo, Baardheere, Beled Weyne

<sup>106</sup> HIPS & City University of Mogadishu, *Somalia’s Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 38

<sup>107</sup> Finnish Immigration Service, *Somalia, Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 35

<sup>108</sup> UNFPA: 26

<sup>109</sup> FMOH: 6

<sup>110</sup> UNFPA: 26, FMOH: 6

<sup>111</sup> Tana Sub-Study, Mogadishu, p. 4

<sup>112</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 36



*Storage of medical supplies, private hospital Mogadishu. July 2020. Photo by Tana*

## 2.4. Private health care

The private health care sector is the dominating provider of health services in Somalia: up to 90 percent of the population is estimated to use private healthcare facilities;<sup>113</sup> between 60 and 80 percent of all curative services are estimated to be covered by private health facilities in Somalia.<sup>114</sup> According to the FMoH the private health care sector's dominance is due to better capacity, service delivery, diagnostic equipment and experience of staff.<sup>115</sup>

Counting pharmacies (58 percent), health clinics (32 percent), hospitals (6 percent) and diagnostics centers (4 percent), the total number of private facilities reach 3,289 in total across the country, illustrated in the figure below. The large majority of private health facilities (79 percent) are located in urban areas and only a small minority in the rural areas.<sup>116</sup> Private health care may be provided as for-profit services (e.g. Ladnan Hospital), by semi-public arrangements (as the Somali Turkish Recep Tayyip Erdogan Training and Research Hospital), as private pharmacies, or as UN-run or NGO-run facilities.<sup>117</sup> There is a very large presence of development partners on the ground, in particularly NGOs such as International Red Cross, USAID funded NGOs as well as agencies such as UNICEF, IOM, American Refugee Committee, World Vision International (WVI) and WHO.<sup>118</sup>



*Ladnan Hospital, a private hospital that specialises in general medicine, obstetrics, gynaecology and surgery. The hospital receives poor patients on Thursdays for free. Mogadishu, July 2020. Photo by Tana*

<sup>113</sup> Gele, A A et al, *Beneficiaries of Conflict: A Qualitative Study of People's Trust in the Private Health Care System in Mogadishu, Somalia*, Risk Management Healthcare Policy, 2017, [url](#)

<sup>114</sup> UNFPA: 5, A Development NGO: 5, HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 14

<sup>115</sup> FMoH: 4

<sup>116</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), pp. 14-15

<sup>117</sup> UNFPA: 4, Tana Sub-Study: Mogadishu

<sup>118</sup> WHO: 3, UN organisation: 2, Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 36

**Figure 5: Density of private health facilities, by Federal State and by type<sup>119</sup>**

Existing private health care facilities but could not be visited due to insecurity	1,036
Confirmed private facilities in Puntland	228
Confirmed private facilities in Somaliland	746
Confirmed private health care facilities in south central Somalia	1,279
Total private health care facilities in Somalia	3,289
<b>Type of private facilities</b>	<b>%</b>
Hospitals	6 percent
Clinics	32 percent
Diagnostic centers	4 percent
Pharmacies	58 percent
Total	100 percent
Density of private health care facilities (excluding pharmacies) per 10,000 population	0.93

Source: OPM/ UNICEF (2018): Assessing the capacity of the private health system in Somalia.

One UN source used the lack of popular trust in the government provided health services to explain the high reliance on private health care in South Central Somalia.<sup>120</sup> Several sources agreed that it is problematic that the private healthcare sector is highly unregulated and that the range of services and their quality is therefore unknown.<sup>121</sup> A bill of regulation which should enable the FMOH to regulate the private health care sector has still not been passed. Consequently, there is neither an act that allows the ministry to monitor the health workforce in the private facilities nor regulations concerning the quality of the drugs being prescribed in these facilities.<sup>122</sup>

Private facilities offer specialised and sometimes advanced treatment, but treatments such as a minor operation are as expensive as 100 USD, which means that few Somalis can afford them.<sup>123</sup> According to a qualitative study on private health facilities in Mogadishu based on data collected in 2016, the total cost of healthcare in the private sector is most often unaffordable for Somali citizens. This study found: ‘... evidence of prescription of inappropriate treatment, tendency to conduct unnecessary laboratory tests, excessive use of higher diagnostic technologies and overcharging – including the widespread practice of further appointments for follow-up – which inflates the costs. The study also found poor patient–provider relationship and widespread distrust of the private health care system.’<sup>124</sup> These statements were corroborated by findings in all four sub-studies conducted for the purpose of this report.

<sup>119</sup> HIPS & City University of Mogadishu, *Somalia’s Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 15

<sup>120</sup> UN organisation: 2

<sup>121</sup> FMOH: 5, UNFPA: 2, UN organisation: 2-3, Swedish Embassy: 5, A Development NGO: 5, Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 35-36, HIPS & City University of Mogadishu: *Somalia’s Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 14

<sup>122</sup> FMOH: 5

<sup>123</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 35

<sup>124</sup> Gele, A A et al, *Beneficiaries of Conflict: A Qualitative Study of People’s Trust in the Private Health Care System in Mogadishu, Somalia*, Risk Management Healthcare Policy, 2017, [url](#)

## 2.5. Service delivery in al-Shabaab controlled areas or areas under mixed control

The level of health care in those areas of South Central Somalia which are not under government control, is very low according to the FMoH and the UNFPA representative; no development partners can freely support health service delivery there and looting of medical depots may occur.<sup>125</sup> Al-Shabaab does not allow for international NGOs to operate freely on the land they have captured, but some NGOs have been able to sneak through al-Shabaab and to carry on with their activities and provide basic social services.<sup>126</sup> According to a Dutch COI report published in 2019, organisations which offer medical assistance are particularly affected by al-Shabaab violence: in Middle Juba vaccination campaigns have been stopped in 2018 because al-Shabaab suspected that the medicines were non-Islamic and stocks of medical supplies have been plundered from local health facilities.<sup>127</sup> Al-Shabaab troops attack aid workers, and in a recent event which took place in May 2020 seven health workers and one civilian were abducted and killed at a healthcare centre run by Zamzam Foundation, in Gololey village, South Somalia.<sup>128</sup> Al-Shabaab sought out the health workers and went to their houses or workplaces in rural and outreach locations, abducted them and killed them or demanded very high ransoms.<sup>129</sup>

In areas where al-Shabaab exercises some level of control, the only available health services are those which the organisation approves of. In some places, NGOs, ICRC or the UN run health facilities, but the services then depend on their funding capacities.<sup>130</sup> The interviewed WHO representative explained that al-Shabaab does not have problems with people accessing healthcare, but the organisation will not allow federal government officials or NGOs in areas controlled by them. In these places, some healthcare services such as routine immunisation for children or mass immunisation campaigns for measles or polio may not be accessible in these areas because of insecurity.<sup>131</sup> Another UN source explained that the level of care in the al-Shabaab captured areas is very low, it would for example not be possible to obtain treatment for diabetes and unlikely to have a caesarean section in a maternity ward.<sup>132</sup>

According to observations of a UN source, al-Shabaab has accused 'the infidels' of bringing Covid-19 into the country and these accusations have contributed to creating a very hostile atmosphere toward government efforts to control the outbreak. In May 2020, there was an increase in the number of attacks on the protected areas and these attacks were being associated with accusations that 'infidels' (foreigners) brought Covid-19 to the country and should be punished for that.<sup>133</sup>

The present report should have included information about health service delivery in Ceel Buur and Ceeldheer but it was not possible because of the presence of al-Shabaab.

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<sup>125</sup> FMoH: 16, UNFPA: 13-14

<sup>126</sup> UNFPA: 13

<sup>127</sup> UN Security Council, *Report on Somalia*, 9 November 2018, [url](#), p. 42, Netherlands Ministry of Foreign Affairs: Country of Origin Information Report on South and Central Somalia, March 2019, [url](#), pp. 21-22

<sup>128</sup> UNICEF, *Statement on the abduction and killing of NGO health workers*, 29 May 2020, [url](#)

<sup>129</sup> UN organisation: 6

<sup>130</sup> UNFPA 13, Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 36, A Western Embassy: 7

<sup>131</sup> WHO: 12

<sup>132</sup> UNFPA: 14

<sup>133</sup> UN organisation: 7



## 2.6. Patient pathways to health services

The referral system between different levels of the health sector has in a recent study been described as ‘inadequate and broken’,<sup>135</sup> which means that people in need of health services freely choose which health facility, public hospital or private pharmacy they wish to consult. People in major cities may prefer to go directly to a hospital due to higher level of specialisation, or a specialised private clinic if they can afford it.<sup>136</sup> Public hospitals accept all patients who enter the facility.<sup>137</sup> Public hospitals may need to refer patients to private hospitals due to lack of medical technology and expertise.<sup>138</sup> People living in rural and nomadic areas have less options and may need to try to go directly to a pharmacy because of the low density of healthcare service in South Central Somalia (see also the map of health facilities in Somalia 2020 on page 22).<sup>139</sup>

Medicines may be bought at the pharmacies without a prescription.<sup>140</sup>

Obstacles for patients in need of health care in Somalia are:

- Geographical distance: people in rural areas are far away from a health facility and may be delayed in getting to a first instance facility or to a referral hospital because of distance, state of the roads, transportation difficulties and possible lack of ambulance for referral between health facilities.<sup>141</sup>
- Economic difficulties: consultation and some medicines are free of charge in the public sector (although patients may need to pay for some medicines) but the availability of specialised treatment is limited. Specialised treatment is of higher quality in the private sector, but it is expensive and therefore out of reach for the general population.<sup>142</sup>
- Security: people living in areas which are not under government control has little access to any form of health care or only access to primary health care.<sup>143</sup>

### 2.6.1. Discrimination based on clan affiliation

The interviewed sources acknowledged the role of clan dynamics at all levels of Somali society.<sup>144</sup> According to one interlocutor, ‘clan dynamics’ may be explained as those power relations that shape how members of a specific clan live together.<sup>145</sup> The federal member states of Somalia are formed on the basis of power-

<sup>135</sup> HIPS & City University of Mogadishu, *Somalia’s Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 38

<sup>136</sup> Email communication with Tana, 7 October 2020

<sup>137</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), pp. 35-36, Tana Sub-Study: Mogadishu

<sup>138</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, 7 August 2020, [url](#), p. 31

<sup>139</sup> HIPS & City University of Mogadishu, *Somalia’s Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 10

<sup>140</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 37

<sup>141</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), pp. 35-36, Tana Sub-Study: Mogadishu

<sup>142</sup> FMOH: 11, Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), pp. 35-36, Tana Sub-Study: Mogadishu, Aden, et al., *Causes and contributing factors of maternal mortality in Bosaso District of Somalia. A retrospective study of 30 cases using a Verbal Autopsy approach*, Global Health Action, 2019; 12(1), [url](#)

<sup>143</sup> FMOH: 16, Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 35

<sup>144</sup> WHO: 6, UNFPA: 9-10, A Development NGO: 10

<sup>145</sup> WHO: 6

sharing arrangements between the major clans and as a function of the presence of clans in specific areas. As a consequence, people tend to live according to their clan and sub-clan belonging.<sup>146</sup>

By contrast, Mogadishu is mixed in terms of clans: the population is to a larger extent mixed and most clans are represented in Mogadishu, compared to the rural areas where the population is more homogenous in terms of clan affiliation.<sup>147</sup> In Mogadishu it is difficult to differentiate one clan from the other based on the physical appearance of a patient or on the way people speak since most people in Mogadishu would speak with a Mogadishu accent.<sup>148</sup> According to findings from a Finnish fact-finding mission to Mogadishu in August 2020, people may move freely in Mogadishu without restrictions based on clan-affiliation. By contrast, according to the same source, people belonging to marginalised groups such as the Bantu, Tumaal, Reer Hamar/Benadiri and Madhiban may have their basic rights violated.<sup>149</sup>

The FMOH official emphasised that according to his observations there was no signs of discrimination in the Somali health system.<sup>150</sup> The interviewed sources concurred that because of demarcation of federal states in terms of clan affiliation, there will be clan congruence between the population and the health workers at the local health facility. One source stated that certain clans or sub-clans experience discrimination but could not further elaborate.<sup>151</sup> Therefore, patients living in their place of origin are likely to be received by a health worker of the same clan background and may not experience clan-based discrimination at the doorstep of the health facility.<sup>152</sup> This assessment was in alignment with the observations from the researched health facilities: The consultants did not observe signs of clan-based discrimination in any of waiting rooms of these health facilities included in the sample; one community hospital in Mogadishu did serve patients from minority groups and from the Bantu people.<sup>153</sup> Therefore, several sources concluded that there is no clan-based discrimination in access to health services in the cities (because of the heterogeneity) or in the rural areas (because of the ethnic congruence between the population and the health workers).<sup>154</sup>

By contrast, if a patient needs health service in a territory where a rival clan is residing, this patient may not be able to access health care and must seek help at a facility in a different location. According to an NGO representative as well as a UN official, health workers may not take up employment in areas where they have no clan affiliation because the local population would be unlikely to trust them.<sup>155</sup>

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<sup>146</sup> Saferworld, *Clans, contention and consensus: Federalism and inclusion in Galmudug*, June 2020, [url](#), pp. 8-10, WHO: 6, UNFPA: 10, ACCORD, *Clans in Somalia*, 15 May 2009, 15 December 2009, [url](#), p. 30

<sup>147</sup> WHO: 6, UNFPA: 9, Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, 7 August 2020, [url](#), p. 4, Landinfo, *Somalia: Security Challenges in Mogadishu*, 15 May 2018, [url](#), p. 13

<sup>148</sup> UNFPA: 9

<sup>149</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, 7 August 2020, [url](#), p. 4

<sup>150</sup> FMOH: 11

<sup>151</sup> Western Embassy: 4

<sup>152</sup> A UN organisation: 4, A Development NGO: 10, UNFPA: 10, WHO: 6

<sup>153</sup> Tana Sub-Study: Mogadishu

<sup>154</sup> WHO: 6, UNFPA: 9, A UN organisation: 4,

<sup>155</sup> A Development NGO: 10, UNFPA: 10



*Waiting areas, private hospital, Mogadishu, July 2020. Photo by Tana*

### *2.6.2. Discrimination based on gender*

According to the FMoH and the WHO there is no gender-based discrimination in Somalia: women enjoy liberty to exercise their rights to health services.<sup>156</sup> Several sources, however, noted that women may experience multiple barriers in their access to health services because of their position in the family, their marital status or their age. These barriers include limited decision making power in relation to major interventions and in their access to health services performed by male health workers.<sup>157</sup>

Women are in particular confronted with barriers in access to health services due to their status in the family when they are in need of major surgical interventions, including emergency obstetric care and other sexual and reproductive health needs. According to UNFPA, married women need the consent of a male relative (or in some cases the mother in law)<sup>158</sup> before a doctor will perform a lifesaving intervention at any public or private hospital (e.g. a caesarean section). This is not only a matter of securing the financial means to pay for the procedures and the required medical supplies, but according to UNFPA a matter of ensuring that the family agrees with the intervention and possible negative outcomes. If the doctor does not ensure male consent, he might run the risk of repercussions after the intervention. A ten year old example was

<sup>156</sup> FMoH: 12

<sup>157</sup> WHO: 8, UNFPA: 11, UN Organisation: 5, Swedish Embassy: 10, A Development organisation: 11

<sup>158</sup> A Development NGO: 11

cited where a doctor had saved a woman's life by performing an emergency caesarean section which had included the removal of the uterus without having had time to obtain consent from the family. The family was upset by the fact that the woman had become infertile and the doctor had to leave the country. Furthermore, unmarried, young women may not access family planning or sexual health services of any kind unless accompanied by their mother or father.<sup>159</sup> Male consent as a barrier for women's free access to health services is being recognised and addressed by advocacy activities but so far no bill or law, act or decree has been put in place.<sup>160</sup>

The second barrier was exemplified by the representative of WHO by the fact that fewer women than men have been tested for corona virus by the WHO surveillance officers in the private homes of the population. The interlocutor from WHO suggested that this may be explained by reluctance of the husbands to allow male health personal to enter the house and perform a test on their wives.<sup>161</sup>

Women are subject to differential access at the one hospital in Somalia which is specialised in treatment of mental health diseases, the Forlanini Hospital. The inpatient ward does not admit women as patients. Women are only treated at the outpatient department.<sup>162</sup>

### 3. Health workforce

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A baseline study of Somalia's healthcare sector found that the exact number of health workers (all categories) in Somalia is unknown (as foreign health workers or unpaid health workers are not accounted for), but the study concludes that in 2019 there were 6,918 salaried health workers in the public sector.<sup>163</sup> This is not enough to cover the health needs of the population and the study found: '...a critical shortage in all categories of the health workforce. In many parts of the country the shortage of national health workers is partially addressed through the recruitment of expensive expatriates. The numbers of these foreign health experts is unknown. Shortages are particularly acute among mental health doctors, health equipment maintenance technicians and fully-trained anesthetists. The biggest shortage, however, exists in the essential health workforce, especially physicians and those in reproductive, maternal, new-born and child health.'<sup>164</sup> The same study found that the most important shortages are in the federal states of Hirshabelle and Southwest.<sup>165</sup>

In 2014, WHO assessed that the health workforce (medical doctors, nurses and midwives as well as administrators) for South Central Somalia amount to 3,694 persons. For South Central Somalia, Puntland and Somaliland combined the health workforce comprises 9,566 persons. That represents a ratio of 0.4

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<sup>159</sup> UNFPA: 11

<sup>160</sup> UNFPA: 12

<sup>161</sup> WHO: 7

<sup>162</sup> Tana Sub-Study: Mogadishu

<sup>163</sup> HIPS & City University of Mogadishu: *Somalia's Healthcare System, A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 43

<sup>164</sup> HIPS & City University of Mogadishu: *Somalia's Healthcare System, A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 42

<sup>165</sup> HIPS & City University of Mogadishu: *Somalia's Healthcare System, A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 43

health workers per 1000 population which is well below the WHO minimum standard of 4.5 nurses, doctors and midwives per 1000 population.<sup>166</sup>

A national plan for human resources has been developed with the assistance of WHO (Somali Human Resources for Health Development Policy 2016-2021).<sup>167</sup>

## 4. Leadership and governance of the health sector

Leadership and governance of the healthcare sector in Somalia involve three levels: the federal government (FGS), the federal member states (FMS) governments and the regional authorities. The FGS has, together with the FMS, the responsibility for building the health system ensuring that an appropriate strategic framework and regulatory mechanisms exist.<sup>168</sup> In Somalia, there are health sector policies which can guide the managers of health service delivery at the lower levels of the health sector pyramid. These policies include the Somali Human Resources for Health Development Policy (2016-2021) and a Health Sector Strategic Plan (2017-2021).<sup>169</sup> Somalia also has a national essential medicines list.<sup>170</sup> These plans are in line with WHO's framework which describes a health system as relying on six core components (service delivery; health workforce; health information systems; access to essential medicines; financing; and leadership/governance).<sup>171</sup>

### 4.1. The Federal Ministry of Health (FMoH)

Health service delivery is the constitutional mandate of the Federal Ministry of Health and Human Resources (FMoH).<sup>172</sup> This ministry is responsible for the regulation of the health sector across Somalia, including quality control of health services and medicine distribution and policy, oversight of human resource capacity development as well as coordination between the different health sector actors.<sup>173</sup> The Ministry has developed a roadmap towards Universal Health Coverage and the Ministry is also in the process of reviewing the existing essential package of health services (EPHS) so that it becomes better aligned with the Universal Health Coverage. This review is, according to information on the Ministry's website, undertaken in collaboration with the federal member states.<sup>174</sup>

According to a baseline study of Somalia's health system, the overall capacity of the Somali health sector to regulate and to prevent, detect and respond to health emergencies is 'minimal'.<sup>175</sup> This assessment was confirmed by the interviewed health sector actors who concurred that the capacity of the FMoH is weak.<sup>176</sup>

<sup>166</sup> WHO, *Health Workforce Requirements for Universal Health Coverage and the Sustainable Development Goals*, 2016, [url](#), pp. 6 - 10

<sup>167</sup> WHO, *The Somali Human Resources for Health Development Policy 2016-2012*, April 2016

<sup>168</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), pp. 16-17

<sup>169</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 18

<sup>170</sup> Somali Republic Ministry of Health and Human Services, *Somali Essential Medicines List*, July 2018

<sup>171</sup> WHO, *Monitoring the Building Blocks of Health Systems*, 2010, [url](#)

<sup>172</sup> WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, p. 24

<sup>173</sup> WHO: 2, UNFPA: 2

<sup>174</sup> Ministry of Health Somalia, *Programmes*, [url](#)

<sup>175</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 17

<sup>176</sup> WHO: 2, UNFPA: 2, UN Organisation: 1, Swedish Embassy: 1, Western embassy: 1, Development NGO: 2

This was already the case before Covid-19 but this health emergency has, according to a well-informed UN organisation, been a particular challenge and has reduced the already limited capacity of the FMOH.<sup>177</sup> In 2020, the Director-General and several other health ministry staff had been arrested and convicted of corruption, see also chapter on Covid-19 pandemic and implications for the health system.<sup>178</sup> A UN source described these arrests as a disruption of the capacity of the FMOH which was now characterised by the same source as being in a worse situation than before the Covid-19 outbreak.<sup>179</sup>

According to a qualitative study from 2015, the recruitment and retaining of qualified individuals within the Ministry of Health was already a problem then. One representative of the Ministry stated in this study that ‘No one wanted to become a minister or a DG (Director General) because you would become a target.’<sup>180</sup>

## 4.2. Regional health authorities

The absence of a strong state with strong line ministries means that the decentralised health governance structures are weak. Therefore donors and development partners have acted without government coordination at regional and district level. A baseline study of Somalia’s health system from 2020 found that ‘...the federal ministry has not adequately established its mandate throughout the country, partially due to limited capacity and confusion over the federal system. For almost two decades, the health sector has been administratively divided by donors and development partners into three zones: Somaliland, Puntland and South Central. In Puntland and Somaliland, the ministries of health have developed their capacities in service delivery and have decentralized health governance structures to the regions and districts. In these two zones, the situation for primary healthcare has dramatically improved over the past decade. There has also been notable progress in the newly created member states within the South Central zone.’<sup>181</sup>

According to one well-informed UN organisation, the regional states should by definition be independent from the federal state in terms of health service delivery, and should have the required capacity to monitor and make decisions of relevance for the preventive, curative, palliative and health promotion activities in their respective regions. The federal states are equipped with a mandate to coordinate between health actors present within their region (NGOs, UN agencies and private providers). However, according to the same UN source, the level of feedback between the different levels is not optimal: sometimes the federal states approve activities without duly informing the state level.<sup>182</sup>

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<sup>177</sup> UN Organisation: 1

<sup>178</sup> AllAfrica, Somalia: *Police Arrested Senior Official With Health Ministry Over Corruption*, 2020, [url](#), Garowe online, Somalia: *Attorney General probes missing millions in dramatic crackdown targeting FGS Officials*, 2020, [url](#)

<sup>179</sup> UN Organisation: 1

<sup>180</sup> Warsame, Adbihamid, Handuleh Jibril and Patel Preeti, *Prioritization in Somali health system strengthening: a qualitative study*, *Int Health*, Int Health. 2016 May;8(3):204-10, [url](#), p. 3

<sup>181</sup> HIPS & City University of Mogadishu, *Somalia’s Healthcare System, A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 17

<sup>182</sup> UNFPA: 4

## 5. Service delivery for specific diseases/health conditions

### 5.1. Mental health

Mental health disorders are estimated to be on the rise in Somalia according to a baseline study of the health system in Somalia. The reasons for this increase have been explained as a combination of ‘...the longstanding conflict, unemployment, sedentary lifestyles, socio-economic stress, high khat consumption and inadequate screening systems at the primary level’.<sup>183</sup>

It is estimated that the country has 0.05 psychiatrists per 100,000 population (2017).<sup>184</sup>

#### 5.1.1. Psychotic disorders, depression, PTSD

Several of the interviewed health sector actors stated that there are no available specialised treatments for mental diseases which meet international standards, nor any hospital with a specialisation in mental health problems.<sup>185</sup> One source mentioned that if any treatment was to be found it would be in the private sector.<sup>186</sup>

By contrast, the interviewed FMoH official mentioned that the Forlanini Hospital in Mogadishu offers specialised treatment to mentally ill patients.<sup>187</sup> The consultant team found that this public hospital has a ward for mental health patients; however, this ward does not admit women as patients. Women are only treated at the outpatient department. The staff working at this ward comprises one psychiatrist, one psychologist, one general practitioner and four nurses out of whom two are qualified. The hospital receives its medicines from WHO.<sup>188</sup> Regarding treatment, the interviewed representative of the hospital advised that the staff use sedatives and medicines to treat patients, not ‘rough treatment’ (such as physical force). The hospital has no written guidelines on the use of physical force in the interaction between health workers and patients.<sup>189</sup>

People suffering from mental health diseases are being stigmatised and looked down upon and therefore belong to the most vulnerable of patient groups according to the interviewed FMoH consultant and according to a report by ACCORD.<sup>190</sup> Previously people with mental illnesses have been subjected to rough treatment in Somalia, e.g. chained to a tree, but according to a Finnish fact finding report this kind of mistreatment has diminished.<sup>191</sup> An interviewed UN source stated that this kind of abuse still exists and cited the example of patients who experience a psychotic episode may be chained to prevent them from harming themselves or others. Traditional forms of treatment, such as reciting the Quran at home or beating still exist.<sup>192</sup>

<sup>183</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 19

<sup>184</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 19

<sup>185</sup> FMoH: 17, WHO: 15, UNFPA: 29, Swedish Embassy: 15, A Western Embassy: 10, A development NGO: 21,

<sup>186</sup> A UN Organisation: 13

<sup>187</sup> FMoH: 17

<sup>188</sup> Tana Sub-Study: Mogadishu. Read more about this hospital in the section ‘Mogadishu’ of this report

<sup>189</sup> Tana Sub-Study: Mogadishu, pp. 5-6,

<sup>190</sup> FMoH: 17, ACCORD, *Anfragebeantwortung zu Somalia: Lage von Personen mit psychischen Erkrankungen*, 30 April 2020, [url](#)

<sup>191</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 37

<sup>192</sup> UNFPA: 30

## 5.2. HIV/AIDS

The prevalence of HIV in Somalia is low; by 2018 the prevalence was estimated to be 0.1 percent. The number of people (all ages) living with HIV is estimated to have dropped from 17,000 in 2010 to 11,000 in 2018.<sup>193</sup> The prevalence among TB-infected patients is considerably higher and is estimated to be 6.8 percent.<sup>194</sup>

Treatment for eligible HIV positive patient exists, including test, counselling and ART treatment, but it is limited.<sup>195</sup> There are two HIV/AIDS centers in Mogadishu,<sup>196</sup> one being the Banadir Hospital which has since 2011 run an HIV/AIDS treatment program. In 2018 that program offered ART treatment to 700 patients;<sup>197</sup> eligible patients are treated free of charge at the Banadir Hospital.<sup>198</sup> It is also possible to receive HIV treatment in Kismayo at the Kismayo General Hospital although the hospital has no specialised doctor for HIV/AIDS treatment. There are trained counsellors and department supervisor for medical prescription and counselling HIV/AIDS patients.<sup>199</sup>

In 2016, only 18 percent of all health facilities advised that they offered HIV/AIDS testing and counselling, and only five percent of facilities offered ART treatment.<sup>200</sup>

## 5.3. Chronic diseases

The last *Somali Health and Demography Survey* notes that 5.7 percent of all Somalis suffer from a chronic disease.<sup>201</sup> The most prevalent of these chronic and non-communicable conditions as diagnosed by a physician is blood pressure (33.3 percent) and diabetes (20.4 percent) as illustrated by the table below.

<sup>193</sup> UNAIDS, *Data 2019*, [url](#), pp. 324-325

<sup>194</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 24

<sup>195</sup> FMoH: 18, WHO: 13, UNFPA: 27, UN Organisation: 10, Swedish Embassy: 13, Western Embassy: 8, A Development NGO: 20

<sup>196</sup> Tana Sub-Study: Mogadishu, p. 4

<sup>197</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 37

<sup>198</sup> Tana Sub-Study: Mogadishu, p. 8

<sup>199</sup> Tana Sub-Study: Kismayo, p. 5

<sup>200</sup> WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, p. 21

<sup>201</sup> Directorate of National Statistics, *The Somali Health and Demographic Survey 2020*, [url](#), p. 261

Figure 6. Overview of chronic diseases<sup>202</sup>

Percentage of household members who have specific chronic diseases diagnosed by a physician, by place of residence and sex, SHDS 2020

Type of disease	Type of residence			Sex of household member		Total
	Urban	Rural	Nomadic	Male	Female	
Blood pressure	33.9	33.2	25.1	31.2	34.7	<b>33.3</b>
Diabetes	22.8	14.6	7.9	23.6	18.2	<b>20.4</b>
Inflammation/ulcers	6.1	5.5	5.4	4.9	6.6	<b>5.9</b>
Anaemia	4.4	3.3	7.1	2.3	5.8	<b>4.4</b>
Sickle-cell anaemia	0.4	0.9	0.4	0.7	0.4	<b>0.5</b>
Heart disease	5.4	5.4	4.3	3.6	6.6	<b>5.4</b>
Kidney disease	7.0	8.1	13.6	6.6	8.3	<b>7.6</b>
Liver disease	3.6	3.5	11.5	5.0	3.3	<b>4.0</b>
Arthritis	7.8	6.4	7.5	4.4	9.7	<b>7.5</b>
Tuberculosis	3.4	1.8	2.0	3.4	2.7	<b>3.0</b>
Chronic headache	6.9	7.7	8.6	4.6	8.9	<b>7.1</b>
Stroke	1.6	1.9	1.3	2.3	1.2	<b>1.6</b>
Epilepsy	3.8	4.2	2.8	4.8	3.2	<b>3.9</b>
Prostatic hypertrophy	0.3	0.5	4.1	0.7	n/a	<b>0.7</b>
Cataract	0.9	0.7	1.4	0.4	1.3	<b>0.9</b>
Chronic back pain	4.9	5.1	8.4	3.4	6.3	<b>5.1</b>
Mental/psychological illness	4.2	4.6	4.7	6.0	3.1	<b>4.3</b>
Skin disease	3.9	4.1	4.3	3.2	4.5	<b>4.0</b>
Cancerous tumors	0.5	0.5	1.5	0.6	0.4	<b>0.5</b>
Asthma	5.7	7.5	8.2	6.2	6.2	<b>6.2</b>
Others	8.9	9.9	13.3	8.9	9.7	<b>9.3</b>

### 5.3.1. Cancer

No cancer treatment is available in Somalia according to the findings from the Finnish fact-finding mission conducted in 2018.<sup>203</sup> By contrast, a WHO report from 2016 has assessed that two percent of all health facilities in Somalia offered cervical cancer treatment. Out of the two percent, it was NGO-run facilities, primarily in urban areas, which were most likely to offer cervical cancer services.<sup>204</sup>

According to the interviewed sources, specialised cancer treatment is deficient in South Central Somalia; patients with financial means must seek treatment abroad; the interviewed WHO source was not even aware that there are oncologists in Somalia.<sup>205</sup> There is no oncologist at the Somali Turkish Recep Tayyip Erdogan Training and Research Hospital; patients who show up may be seen by an internal medicines doctor or a general surgeon according to findings from the sub-study.<sup>206</sup> By contrast, there is one oncologist at the Hilaal Speciality Hospital in Beled Weyne, but this doctor does also treat other patients within

<sup>202</sup> Directorate of National Statistics: *The Somali Health and Demographic Survey 2020*, [url](#), p. 263

<sup>203</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 35

<sup>204</sup> WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, p. 22

<sup>205</sup> FMOH: 19, WHO: 14, UNFPA: 28, UN Organisation: 11, Swedish Embassy: 14, Western Embassy: 9, A development NGO: 23

<sup>206</sup> Tana Sub-Study: Mogadishu, p. 32

general medicine.<sup>207</sup> One source assessed that in the whole country there is a maximum of five oncologists.<sup>208</sup>

### 5.3.2. Kidney diseases (including dialysis)

In 2016, it was only nine percent of health facilities across the country which offered diabetes diagnosis and treatment. Hospitals were more likely to offer diabetes services than other health facilities and urban facilities were more likely than rural facilities to offer diabetes services.<sup>209</sup>

Dialysis treatment is available in Mogadishu.<sup>210</sup> According to interviews with hospital managers the only functioning dialysis centre in Mogadishu is located inside the Somali Turkish Recep Tayyip Erdogan Training and Research Hospital, and it is equipped with 35 machines and patients from public hospitals are referred to the Turkish hospital (also referred to as the Erdogan Hospital or the Turkish Hospital).<sup>211</sup>

### 5.3.3. Surgery, including spine surgery

Surgery is only available to a limited extent in Somalia.<sup>212</sup> The interviewed sources stated that spine surgery and treatment is not available in the country.<sup>213</sup>

The Somali Turkish Recep Tayyip Erdogan Training and Research Hospital in Mogadishu has general surgery, thoracic surgery, neurosurgery, paediatric surgery and cardiovascular surgery. According to interviews with hospital managers, neurosurgeons at this hospital may conduct spine surgery operations, except for endoscopic spine surgery and cases that require advanced experience and equipment.<sup>214</sup>

### 5.3.4. Pre- and aftercare for patients who have had a transplantation

No specialised treatment is available inside Somalia.<sup>215</sup>

### 5.3.5. Cardiac complications and hypertension

There is no specialised treatment available inside Somalia.<sup>216</sup> Some diagnostics may be available.<sup>217</sup>

According to interviews with hospital managers, cardiac complications and hypertension may be treated by an internal specialist (internist) or a cardiologist at the Somali Turkish Recep Tayyip Erdogan Training and Research Hospital and the Ladnan Hospital, both in Mogadishu.<sup>218</sup>

<sup>207</sup> Tana Sub-Study: Beled Weyne, p. 15

<sup>208</sup> A development NGO: 23

<sup>209</sup> WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, [url](#), p. 22

<sup>210</sup> FMOH: 20, Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 35

<sup>211</sup> Tana Sub-Study: Mogadishu, pp. 27, 31

<sup>212</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, January 2018, 5 October 2018, [url](#), p. 35

<sup>213</sup> FMOH: 22, WHO: 19, UNFPA: 36, A UN organisation: 16

<sup>214</sup> Tana Sub-Study: Mogadishu, pp. 4, 21

<sup>215</sup> FMOH: 23, WHO: 17, UNFPA: 33, A UN organisation: 15

<sup>216</sup> WHO: 18, UNFPA: 33, A UN organisation: 15

<sup>217</sup> FMOH: 21

<sup>218</sup> Tana Sub-Study: Mogadishu, p. 25

### 5.3.6. Chronic obstructive lung disease

Chronic lung diseases such as TB are common in Somalia. TB treatment is free of charge funded by the Global Fund.<sup>219</sup>

According to interviews with hospital managers, patients may receive treatment by a pulmonologist at the Somali Turkish Recep Tayyip Erdogan Training and Research Hospital in Mogadishu (also known as the Turkish Hospital or the Erdogan Hospital).<sup>220</sup>

## 6. Possible tattoo removal

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None of the interviewed sources knew of any existing service which performs removal of tattoos in Somalia.<sup>221</sup>

None of the interviewed sources had seen a Somali person with a tattoo in Somalia. According to one source, tattoos are against religious beliefs.<sup>222</sup> Another source stated that tattoos constitute a taboo and they are therefore considered to be culturally unacceptable in Somali society.<sup>223</sup>

## 7. Health information system

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According to a baseline study of Somalia's health sector, the country does not have an efficient health information system that covers the whole territory. Therefore, there is a lack of patient-based statistics which can inform decision making, allocation of resources and planning of health service delivery. The surveillance of communicable diseases is being carried out through the use of unified data collection processes which include 12 diseases that are defined as nationally notifiable. The Somali health management information system is characterised by the same study as facing '*...enormous challenges concerning performance and capacity as well as mechanisms to support information used for decision making.*'<sup>224</sup>

The weak health information system also includes poor human resource databases and records in the public as well as in the private health sector.<sup>225</sup>

## 8. Access to essential medicines

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### 8.1. Essential medicines list

Somalia has established a list of essential medicines. It was developed in 2006 and has been revised in 2018 and December 2019. It has been developed with the assistance of WHO's country office in Somalia and

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<sup>220</sup> Tana Sub-Study: Mogadishu, p. 28

<sup>221</sup> FMoH: 24, WHO: 20, UNFPA: 37, UN organisation: 17, Swedish Embassy: 17, A Development NGO: 24

<sup>222</sup> A Development NGO: 24

<sup>223</sup> UNFPA: 37

<sup>224</sup> HIPS & City University of Mogadishu: *Somalia's Healthcare System, A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 18

<sup>225</sup> HIPS & City University of Mogadishu: *Somalia's Healthcare System, A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 42

according to the foreword its purpose is to guide all healthcare service managers in their choice of medicines based on an assessment of the medicines safety, efficacy, cost and country context.<sup>226</sup>

According to an FMoH official, the December 2019 version of the essential medicines list has not been widely circulated among the relevant health system stakeholders due to the COVID-19 outbreak and its disruptive effects on the health system.<sup>227</sup>

The essential medicines list serves as a complement to the three sets of treatment guidelines which exist for primary health units; health centres; and hospitals and referral centres respectively. These guidelines were issued in 2015.<sup>228</sup>

A National Medicines Policy has been developed and in 2016 it was endorsed by the FGS. However, this policy has not been efficiently implemented due to limited resources allocated to this purpose.<sup>229</sup>

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<sup>226</sup> Somalia, The Federal Government of Somali Republic Ministry of Health and Human Services, *Somali Essential Medicines List*, 8 December 2019

<sup>227</sup> Tana Sub-Study: Mogadishu, p. 10

<sup>228</sup> Somali Health Authorities – WHO, *1 Primary Health Units STGs, Somali National Treatment Guidelines in line with the Essential Package of Health Services*, November 2015, Somali Health Authorities – WHO, *2 Health Centre, STGs*, November 2015, Somali Health Authorities – WHO Hospital, *3 and Referral Health Centre Guidelines*, November 2015

<sup>229</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 18



Photo of stock of medicines. Information system includes name of active ingredients, dosage and date of expiration, Banadir Hospital, July 2020. Photo by Tana

## 8.2. Regulatory framework

There is no central regulatory body which controls the quality of medicines in South Central Somalia.<sup>230</sup> According to interviewed managers across the country, the FMOH has the authority to grant licenses to private health facilities, but the ministry has not yet started to issue these licences to pharmacies or to companies who import medicines because of limited technical capacity and insufficient legal framework.<sup>231</sup>

Hospitals may keep an inventory list of medicines and three out of the four researched hospitals in Mogadishu share this list with the FMOH. According to interviews with hospital managers, hospitals may get their medicines from different sources: one is procured directly by UNICEF, another by WHO and yet another hospital imports its medicines directly from Turkey and therefore follows Turkish quality guidelines and standards.<sup>232</sup> The interviewed representative of a pharmacy in Mogadishu advised that they were not familiar within any national list of approved medicines.<sup>233</sup>

<sup>230</sup> FMOH: 7, Tana Sub-Study: Mogadishu, pp. 9-10, Swedish Embassy: 3, Western Embassy: 1, A Development NGO: 4

<sup>231</sup> Tana Sub-Study: Mogadishu: p. 10

<sup>232</sup> Tana Sub-Study: Mogadishu, Kismayo, Baardheere, Beled Wayne

<sup>233</sup> Tana Mogadishu Sub-Study: p. 10

According to high-level representatives of five different hospitals in Mogadishu, there were no procedures for registration of medication, one hospital advised that they registered medicines manually.<sup>234</sup> Three of the same hospitals further added that there was no procedure to confirm the legality of medicines, however, unregistered medicines are perceived as illegal.<sup>235</sup>

Counterfeit medicines can be found at the market.<sup>236</sup>



*Photo of stock of medicines, Public Hospital, Mogadishu, September 2020. Photo by Tana*

In appendix F of this report a detailed overview of availability and prices of medicines in each of the surveyed locations can be found.

## 9. Financing

According to a baseline study from 2020, the Somali government spent less than one percent of its total expenditure on health in 2017; per capital expenditure (out-of-pocket) on health was 6 – 7.4 USD.<sup>237</sup> Kenya

<sup>234</sup> Tana Mogadishu Sub-Study: p. 9

<sup>235</sup> Tana Mogadishu Sub-Study: p. 10

<sup>236</sup> UNFPA: 35

<sup>237</sup> HIPS & City University of Mogadishu. *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 19

spent 1.7 % in 2015 of its gross domestic product on health.<sup>238</sup> According to a qualitative study, the fact that the tax base in Somalia is almost non-existing makes the financing of the health system highly donor dependent.<sup>239</sup>

According to the Demographic and Health Survey from 2020, 48 percent of households reported that they pay for their health expenses from their own income; 25 percent answer that their family or friends paid, 14 percent had to borrow money and 11 percent were obliged to sell their assets to cover health expenditures. Only two percent of the interviewed households reported that they could draw on a health insurance to pay for health expenses.<sup>240</sup> Therefore, out-of-pocket expenditure is very high, and most people rely on services provided free of charge at public or not-for-profit private health facilities.<sup>241</sup>

## 9.1. Existence of national health insurance scheme

There is no national health insurance scheme available for people in Somalia.<sup>242</sup> People may either seek health services which are provided free of charge at a government-run health facility or an NGO-run facility or pay out of pocket at a private health facility.<sup>243</sup>

People who are employed with an international organisation, an NGO or a UN agency may have access to insurance through their workplace.<sup>244</sup>

## 9.2. Fee structure

Treatment prices are not fixed in South Central Somalia. In principle, there is no fee charged for a consultation at the public or NGO run hospitals. Findings from the four sub-studies conducted in the field confirmed that services at the public hospitals or NGO run are provided free of charge.<sup>245</sup> Private hospitals and practitioners are free to set their own prices. Most of services provided in the public health sector are offered free of charge but a nominal fee of 5 USD may be charged according to findings by the consultant teams.<sup>246</sup> It should be noted that most of those services provided within the public health care sector are primary health care services and maternal and child health.<sup>247</sup> Patients in need of specialised medical treatment for chronic diseases and who may need additional follow-up and monitoring of their conditions will try to get treatment in the private sector.<sup>248</sup>

Some hospitals differentiate between the worst-off and the more wealthy patients so that the hospital management will assess the situation of the patient and his/her extended family and decide whether they will be able to pay or should be treated free of charge. This is the case in Wardi Hospital, a community run

<sup>238</sup> WHO, Global Health Observatory (GHO) Data, *Domestic general government health expenditure (GGHE-D) as a percentage of gross domestic product (GDP)*, n.d., [url](#)

<sup>239</sup> Warsame, Adbihamid, Handuleh Jibril and Patel Preeti, *Prioritization in Somali health system strengthening: a qualitative study*, Int Health. 2016 May;8(3):204-10, [url](#), p. 207

<sup>240</sup> Directorate of National Statistics, *The Somali Health and Demographic Survey 2020*, [url](#), p. 258

<sup>241</sup> WHO: 5, UNFPA: 6, Swedish Embassy: 8

<sup>242</sup> FMoH: 10, WHO: 5, UNFPA: 6, UN Organisation: 3, Swedish Embassy: 8, A Western Embassy 3, A Development NGO: 8

<sup>243</sup> UNFPA: 6

<sup>244</sup> WHO: 5, UNFPA: 6, UN Organisation: 3, A Development NGO: 8

<sup>245</sup> Tana Mogadishu Sub-Study: pp. 3-4, 32, see also tables with consultation prices in Chapter 10

<sup>246</sup> See list of consultation prices, Mogadishu in Chapter 10

<sup>247</sup> WHO: 4

<sup>248</sup> UNFPA: 6-7

local hospital supported by an NGO, the Forlanini Hospital and the Ladnan Hospital, which is a private facility, and Hoosh Pharmacy in Bardeere which gives discounts to poor clients.<sup>249</sup>

An overview of prices for consultation and for medicines by geographical location can be found in each the chapters about Mogadishu, Kismayo, Bardheere and Beled Wayne respectively.

## 10. Situation in specific locations

### 10.1. Mogadishu

In Mogadishu a sample of six health facilities were researched: Banadir hospital (public hospital), Forlanini Hospital (public hospital), Wardi Community Hospital (NGO-run hospital), Ladnan Hospital (private hospital), Somali Turkish Recep Tayyip Erdogan Training and Research Hospital (public-private hospital) and Somal Pharma (private pharmacy). The location of these health facilities can be seen on the map below. These facilities were chosen by the consultants in dialogue with DIS to represent variation in health service delivery in the capital. Most of the information on which this chapter is built comes from findings from interviews with hospital and pharmacy managers as well as direct observations carried out by a consultancy company. Further information can be found in the section *Methodology*.

**Map of Mogadishu and researched health facilities**



*Map of Mogadishu and the six health facilities surveyed: WARDI Community Hospital, Banadir Hospital, Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital, Ladnan Hospital, Forlanini Hospital and SOMAL Pharma Pharmacy*

<sup>249</sup> Tana Sub-Study: Mogadishu, Tana Sub-Study: Bardheere

### 10.1.1. Services offered by surveyed health facilities

The surveyed hospitals and their offer of services are:<sup>250</sup>

- **Banadir hospital:** built in 1977 by the Chinese government, this public hospital has a capacity of 500 beds. The hospital used to be a referral hospital for war-wounded patients but currently it is devoted to maternity and child health with women and children as the primary users. The buildings lack maintenance due to overuse. The hospital has a maternity, paediatric and immunisation department as well as a TB and an HIV centre. A haemodialysis centre, which was funded by the Saudi Arabian Government in 2012, is not functional. The majority of medical doctors in the hospitals are specialised in internal medicine, paediatrics, obstetric care and gynaecology. Treatments, including HIV/AIDS treatments, are generally provided for free. This hospital is particularly sought by mother and children from poor households because of the free services.
- **Forlanini Hospital:** this public hospital was originally built in 1932 by the Italian Government as a referral hospital for tropical diseases, as well as for mental health and other diseases. Up until the fall of the Central Government of Somalia in 1991 it was the country's largest facility specialised in mental health. Most of the buildings have not been rehabilitated since the end of the civil war. Today the hospital offers specialised treatment within multidrug resistant TB, nutrition and mental health. The hospital has a capacity of 100 beds at the inpatient ward for mental health. The health staff at the mental health ward consists of one doctor specialised in psychiatry, a psychologist, a medical doctor, two nurses with formal degrees, two experienced nurses, a lab technician and a pharmacist as well as practical staff. The training and education opportunities for the relevant health staff working with psychiatric patients are limited although the FMOH organises a workshop once a year for these health workers. The hospital is provided with medicines by WHO and receives other forms of support by other donors. However, the support for salaries to the mental health center and the TB center provided by Muslim Aid ended in March 2020. Most of the patients are from poor households, those who cannot afford to pay consultation fees are treated free of charge at the open patient department.
- **Wardi Community Hospital:** this NGO-run hospital, which is specialised in maternal and child health, has a capacity of 50 beds. The buildings lack maintenance due to overuse. The hospital has an outpatient department for under five years olds, antenatal care, deliveries, stabilisation centre, paediatric care, laboratory, expanded immunisation program and a vaccination centre which is supported by the WHO. Treatments and medications are provided for free. This hospital is particularly sought by women and children from poor households as well as by Bantu and people from minority clans.
- **Somali Turkish Recep Tayyip Erdogan Training and Research Hospital:** this hospital is commonly referred to as either the Turkish Hospital or the Erdogan Hospital. It was originally built in the 1960s by the Turkish Government and then rebuilt and refurbished by 2015 and has now a capacity of 250 beds. The FMOH described it as a public hospital, to others it is perceived as a private hospital.<sup>251</sup> It is a teaching hospital for Somali and Turkish doctors and has a research component. The hospital offers specialised treatment within general surgery, thoracic surgery, orthopaedic care, neurosurgery, paediatric surgery, cardiovascular surgery, traumatology, obstetrics, gynaecology,

<sup>250</sup> All information unless otherwise specified from the consultancy report Tana Sub-Study: Mogadishu

<sup>251</sup> FMOH: 6, UNFPA: 26

urology, infectious diseases, cardiology, neurology, ophthalmology and pulmonology. The hospital also has one psychiatrist according to its website.<sup>252</sup> Furthermore, this hospital has laboratory facilities which may perform microbiology, biochemical and pathogenic analysis with magnetic resonance (MR), computed tomography (CT), ultrasonography and colour doppler, mammography and digital direct graph imaging services. This is the only place found by the consultants where patients may receive dialysis. People must pay for services and the majority of the clients are mothers and children as well as members of the diaspora (Somalis who live abroad). Patients have to pay a fee for services but these fees are subsidised so that consultation prices are consistently cheaper than on the common market.<sup>253</sup>

- **Ladnan Hospital:** this private hospital, which was established in 2016, has a capacity of 25 beds. The hospital specialises in general medicine, obstetrics, gynaecology, general surgery, paediatrics and ear, nose and throat. The doctors have facilities which can be used for laparoscopic and open surgery. It has a laboratory which is equipped with fully automated biochemistry and haematology analysers as well as doppler ultrasound with echocardiography and ECG. Treatments and medicines are provided for a fee and clients of this facility belong to the well-off parts of the population.
- **Somal Pharma Pharmacy:** this private pharmacy serves as the retail outlet for a drug importing company that distributes medicines to pharmacies located in Mogadishu and nearby regions. The pharmacy sells medicines from this company as well as from other companies. Prices are relatively lower than in other retail-only pharmacies.

### 10.1.2. Consultation prices

Below is a table which presents findings from interviews with managers at five hospitals in Mogadishu gathered on the ground by consultations and confirmed by visual inspection.<sup>254</sup> The table contains information about the availability of medical doctors with a specialisation within different diseases and health conditions and prices for a consultation or an intervention by one of these specialised doctors. Please note that in some hospitals, specialised treatment may be provided by a doctor with specialisation in general medicine. According to one source, the Turkish Hospital may offer services free of charge to poor patients, no detailed descriptions of how a patient may qualify as poor was obtained.<sup>255</sup>

N/A means that the specialisation in questions was not available at the specific health facility at the time of the survey.

Consultation fees in USD<sup>256</sup>

	Public	Public	NGO-run	Private	Public-private
	Banadir Hospital	Forlanini Hospital	Wardi Hospital	Ladnan Hospital	Erdogan Hospital
Registration fee <sup>257</sup>	Free	Free	Free	Free	2

<sup>252</sup> Republic of Turkey, Ministry of Health, Somali Turkish Training and Research Hospital: *Doctors*, [url](#)

<sup>253</sup> Tana Sub-Study: Mogadishu, p. 4, FMOH: 6

<sup>254</sup> For further details please see volume two of this report *Health System Somalia: Consultation prices*

<sup>255</sup> FMOH: 6

<sup>257</sup> Could be the fee for obtaining a patient booklet / card

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First visit/consultation with a doctor	Free	5	Free	6	5 – depending on the specialisation
Second visit	Free	5	Free	Free	Free
General practitioner	Free	5	Free	6	5
Cardiologist	N/A	N/A	N/A	200-300	5 – consultation only
Cardiovascular surgeon	N/A	N/A	N/A	N/A	N/A
Cardiac tests	Free – (there is no ECG) but only ultrasound imaging is available	N/A	Free – (there is no ECG) but only ultrasound imaging is available	15 – ultrasound imaging) 50-60 (EGC)	10 – ultrasound imaging) 17 (EGC)
Endocrinologist/internal medicines doctors treating diabetes patients	N/A	N/A	N/A	150-200 <sup>258</sup>	40
General surgeon	Free	N/A	Free	400 - 1500 – depending on the case (hernia and tonsillectomy (400 - 500) or laparotomy, complications (1000 - 1500)	200 - 100 – depending on nature and complications of each case
HIV specialist	Free <sup>259</sup>	N/A	N/A	N/A	N/A
Laboratory tests	Free	Measuring blood sugar levels is included in the inpatient price for mental health patients (\$100 - \$200 per month)	Free	1 - 30 – depending on the specific test	2-13.5 – depending on the specific test
Neurosurgeon	N/A	N/A	N/A	3000 - 4500 – for an operation	1500 – for an operation
Oncologist	N/A	N/A	N/A	N/A	N/A

<sup>257</sup> Could be the fee for obtaining a patient booklet / card

<sup>258</sup> Includes consultation, follow-up, laboratory tests and medication

<sup>259</sup> In Banadir Hospital, HIV/AIDS consultations are performed by a general practitioner

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Pediatric surgeon	N/A	N/A	N/A	N/A	N/A
Pediatrician	N/A		N/A	4	4
Physical therapist	N/A	N/A	N/A	N/A	70 – for 10 days
Psychiatrist	N/A	5 (outpatient) 100-200 (inpatient)	N/A	N/A	12
Psychologist		5 (outpatient) 100-200 (otherwise included in the lump sum price of inpatient services which is 100 - 200 per month).			
TB specialist	Free <sup>260</sup>	Free (There is no TB specialist but an internal Doctor with long experience runs the TB section)	N/A	N/A	N/A
Thoracic surgeon	N/A	N/A	N/A	N/A	N/A

The table indicates the presence of these particular medical specialists, but does not necessarily mean a disease cannot be treated as it may be treated by a general doctor. For further details, please check for specific diagnoses in the price tables.

<sup>260</sup> In Banadir Hospital, TB consultations are performed by a general practitioner



*Banadir Hospital, Mogadishu, July 2020. This hospital was initially built in 1977 by the Chinese government and it has remained the most important referral hospital for maternal and child health ever since. The hospital was restructured and refurbished in 2019. Photo by Tana*

### 10.1.3. Access to health facilities

#### Security

The security situation in Mogadishu remains volatile and subject to changes. Al-Shabaab continues to launch attacks, including suicide bombings, mostly against government and UN run facilities; civilians are also victims of these attacks.<sup>261</sup> The roads are open but there may be violence at checkpoints.<sup>262</sup> A Finnish fact-finding mission that visited Mogadishu in March 2020, described the situation as ‘unstable and unpredictable’ and emphasised that the presence of al-Shabaab in Mogadishu is a contributing factor to this instability.<sup>263</sup>

According to observations by the consultants as well as by UN OCHA, Mogadishu airport is open and functional.<sup>264</sup> The location of the airport *vis à vis* the surveyed health facilities can be seen on the map below.

<sup>261</sup> International Crisis Group, *Crisis Watch: Somalia*, August 2020, [url](#)

<sup>262</sup> ACCORD: *ecoi.net featured topic on Somalia: Security Situation*, 28 August 2020, [url](#), UN Security Council: Situation in Somalia; *Report of the Secretary-General [S/2020/798]*, 13 August 2020, [url](#), pp. 3-4, ACCORD, *Somalia: Security Situation*, 4 December 2019, [url](#), DIS, South and Central Somalia Security situation, forced recruitment, and conditions for returnees, 17 July 2020, [url](#), p. 10

<sup>263</sup> Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, 7 August 2020, [url](#), p. 3

<sup>264</sup> Tana Sub-Study: Mogadishu, UN OCHA: Somalia: *COVID-19 Monthly Report*, August 2020, [url](#)

Map of location of Mogadishu airport and surveyed health facilities



### Discrimination

Mogadishu is a heterogeneous city in terms of clan affiliation and, according to sources; there are people from all clans represented in the capital.<sup>265</sup> It is difficult to differentiate one clan from the other based on features such as appearances, accent or name of an individual in the capital according to the same source. Most people who are born in Mogadishu speak with a Mogadishu accent and people's names also reveal little about clan affiliation because most names are Arabic names, so it is only at the level of the great grandfather or his father, who might have a well-known name of a grand reputation, that clan belonging would only be revealed. Children attend school regardless of ethnicity; patients choose hospitals regardless of ethnicity.<sup>266</sup>

The consultants did not take note of signs of clan based discrimination in the waiting areas of the surveyed health facilities.<sup>267</sup>

<sup>265</sup> UNFPA: 9, Finnish Immigration Service, *Somalia: Fact-Finding Mission to Mogadishu and Nairobi*, 7 August 2020, [url](#), p. 4

<sup>266</sup> UNFPA: 9

<sup>267</sup> Tana Sub-Study: Mogadishu, pp. 8-9

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*Wardi Community Hospital. This is an NGO-run hospital that is specialised in maternal and child health, July 2020. Photo by Tana*



*Somali Turkish Recep Tayyip Erdogan Training and Research Hospital, July 2020. This hospital which is co-managed by the Somali and the Turkish authorities is also known as the Erdogan or the Turkish Hospital. It was built in the 1960s but closed during the civil war but after a new deal between the Somali Government and the Turkish Government to rebuild the hospital from scratch, it was officially reopened in 2015. Photo by Tana*



*Entrance of the Forlanini Hospital. This public hospital occupies a huge compound in North Mogadishu close to the headquarters of the National Intelligence and Security Agency. Most parts of the hospital were destroyed during the civil war and have not been rehabilitated since then. It offers specialised treatment in mental health, September 2020. Photo by Tana*

## 10.2. Kismayo

Kismayo is a town located in Lower Juba (Jubbada Hoose) in the federal state Jubbaland. According to data from the Jubbaland Ministry of Health quoted in the HIPS & City University of Mogadishu baseline study there was in 2019 a total of 93 public health facilities in the state.<sup>268</sup> The consultants have not been able to verify the existence of the below mentioned mental health facility in Jubbaland.

**Figure 7. Public health facilities Jubbaland 2019<sup>269</sup>**

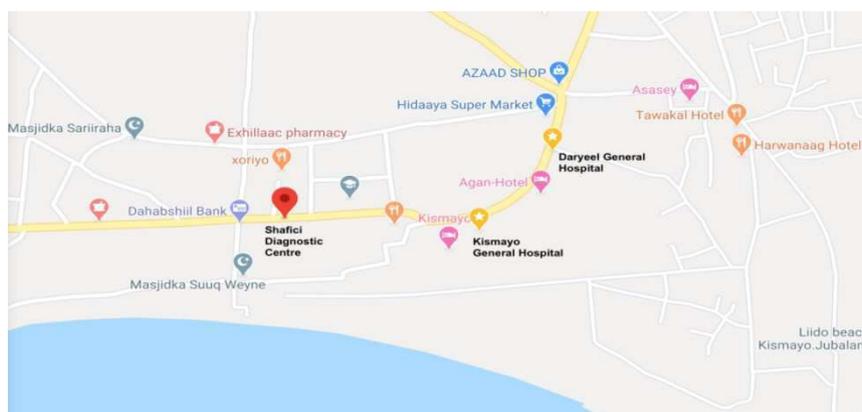
Facility Type	Number
Primary Health Care Units (PHCUs)	18
Health Center /MCH Centers	56
Referral Health Center/District Hospital	6
Regional/ Tertiary Hospital	1
TB Centers	10
VCT/ART Facilities	1
Mental health	1
Total	93

In Kismayo a sample of three health facilities were researched: Kismayo General Hospital (public facility), Daryeel General Hospital (private facility) and Safici Diagnostic Center (private pharmacy). The location of these health facilities can be seen on the map below. These facilities were chosen by the consultants in dialogue with the COI Division, DIS to represent variation in health service delivery in the town. Most of the information on which this chapter is based comes from findings from interviews with hospital and pharmacy managers as well as direct observations carried out by a consultancy company. Further information can be found in the section *Methodology*.

<sup>268</sup> HIPS & City University of Mogadishu, *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, [url](#), p. 41

<sup>269</sup> HIPS & City University of Mogadishu: *Somalia's Healthcare System: A Baseline Study & Human Capital Development*, May 2020, p. 41, [url](#)

### Map of Kismayo and researched health facilities



#### 10.2.1. Services offered by the surveyed health facilities

The surveyed hospitals and their offer of services are:<sup>270</sup>

- **Kismaayo General Hospital**: this public hospital serves as referral hospital for Middle and Lower Juba. It has departments for general medicine, minor surgeries, a maternity department for pregnant women and infants and a nutrition department for malnourished children. All medical doctors are general practitioners. Treatments and medicines are provided for free, but are insufficient in amount and quality. The hospital is partly provisioned with medicines by the ICRC. The hospital is attended by patients from low and middle class as well as IDPs, returnees and refugees from the Dadaab refugee camps. The staff appeared to be overwhelmed by the demand for services and lacked the required medical equipment to perform services.
- **Daryeel General Hospital**: this private hospital is considered to be one of the leading private health facilities in the town. It has no particular specialisation but offers services within general medicine. It has one maternity ward and one department for general medicine. Doctors, nurses and midwives are qualified. Treatments and medicines are considered expensive for the average population.
- **Safici Diagnostic Center**: this private pharmacy is one of the largest pharmacies in town. It serves the middle class and upper-social groups.

#### 10.2.2. Consultation prices

Below is a table which presents findings from interviews with managers at two health facilities in Kismayo gathered on the ground by consultations and confirmed by visual inspection.<sup>271</sup>

Treatment prices are not fixed in South Central Somalia. In principle, there is no fee charged for a consultation at the public hospitals; private hospitals and practitioners are free to set their own prices. The prices at the private facilities are found to be high for the general population, especially those who have no employment or who work as day labourers, i.e. the income source of casual labour by earning daily wages from working in the informal sector such as construction, washing clothes, cleaning, cooking, porters, etc.<sup>272</sup>

<sup>270</sup> All information from Tana Sub-Study: Kismaayo

<sup>271</sup> For further details please see volume two of this report *Health System Somalia: Consultation prices*

<sup>272</sup> Tana Sub-Study: Kismaayo, p. 18

N/A means that the specialisation was not available at the specific health facility at the time of the survey.

#### Consultation fees in USD<sup>273</sup>

	Public	Private
	Kismayo General Hospital	Daryeel General Hospital
Registration fee <sup>274</sup>	Free	N/A
First visit/consultation with a doctor	Free	5
Second visit	Free	Free if it is a follow-up visit and when patients have appointments for follow up
General practitioner	Free	5
Cardiac tests (ECG)	N/A	70
Cardiologist	N/A	N/A
Cardiovascular surgeon	N/A	N/A
Endocrinologist/internal medicines doctors treating diabetes patients	N/A	N/A
General surgeon	Free	N/A
Gynaecologist	Free	5
HIV specialist	N/A	N/A
Laboratory tests <sup>275</sup>	Free	5 - 15
Neuro-surgeon	N/A	N/A
Oncologist	N/A	N/A
Paediatric surgeon	N/A	N/A
Paediatric surgeon	N/A	N/A
Paediatrician	N/A	N/A
Physical therapist	N/A	N/A
Psychiatrist	N/A	N/A
TB specialist	N/A	N/A
Thoracic surgeon	N/A	N/A

The table indicates the presence of these particular medical specialists, but does not necessarily mean a disease cannot be treated, as it may be treated by a general doctor. For further details, please check for specific diagnosis in the price tables, appendix F.

### Access to health facilities

#### Security situation

The town of Kismayo is under control of the AMISOM/the Federal Government.<sup>276</sup> According to observations on the ground by the consultants the town appeared calm and there were no major security incidence reported in 2020. There were no roadblocks or restrictions on movements within the town.<sup>277</sup>

<sup>273</sup> Tana, *Health System Somalia: Consultation and medication prices, Appendix F*

<sup>274</sup> Could be the fee for obtaining a patient booklet / card

<sup>275</sup> Please check Tana Sub-Study: Kismayo for details about available laboratory tests

<sup>276</sup> Political Geography Now, *Control Map Somalia*, May 2020, see map on p. 11 of this report

<sup>277</sup> Tana, Sub-Study: Kismayo 2020, p. 4

However, other sources reported on violent incidents taking place in Kismayo town in 2020.<sup>278</sup> The areas outside of the town are marked as being under mixed, unclear or local territorial control.<sup>279</sup>

According to observations by the consultants as well as by UN OCHA,<sup>280</sup> the town has an airport which is open and functional. The location of the airport *vis à vis* the surveyed health facilities can be seen on the map below.

**Map of location of Kismayo airport and surveyed health facilities**



### *Discrimination*

The consultants did not take note of signs of clan based discrimination in the waiting areas of the surveyed health facilities. As mentioned in section 2.6.1 *Discrimination based on clan affiliation* the interviewed sources confirmed that the different regions of Somalia are relatively homogeneous in terms of clan and sub-clan presence; therefore people seeking help at the health facilities are likely to come from the same clan as the health workers employed there.

Women and children were the most frequent users of the observed health facilities.<sup>281</sup>

## 10.3. Baardheere

Baardheere is a town located in the southwestern Gedo (Geedo) province in the federal state Jubbaland.

In Baardheere a sample of three health facilities were researched: Barhera General Hospital (public facility), Kulmiya Hospital (private facility) and Hoosh Medical Center (private pharmacy). The location of these health facilities can be seen on the map below. These facilities were chosen by the consultants in dialogue with the Country of Origin Division, DIS to represent variation in health service delivery in the town. Most of the information on which this chapter is based comes from interviews with hospital and pharmacy

<sup>278</sup> ACCORD: *ecoi.net featured topic on Somalia: Security Situation*, 28 August 2020, [url](#), UN Security Council: Situation in Somalia; *Report of the Secretary-General [S/2020/798]*, 13 August 2020, [url](#), paragraph 23, p. 4

<sup>279</sup> Political Geography Now, *Control Map Somalia*, May 2020, see map at page 11 of this report

<sup>280</sup> Tana Sub-Study: Kismayo, p. 4, UN OCHA, *Somalia: COVID-19 Monthly Report*, August 2020, [url](#)

<sup>281</sup> Tana Sub-Study: Kismayo, p. 4

managers as well as direct observations carried out by a consultancy company. Further information can be found in the section *Methodology*.

**Map of Baardheere and researched health facilities**



*Map of Baardheere and the three health facilities surveyed: Hoosh Medical Centre, Bardhera General Hospital, and Kulmiya Hospital*

### 10.3.1. Services offered by the surveyed health facilities

The surveyed hospitals and their offer of services are:<sup>282</sup>

- **Bardhera General Hospital:** this public hospital has departments which offer services within maternity health, nutrition, stabilisation for malnourished children and general outpatient consultations. The staff consists of three doctors specialised in general medicine and qualified and auxiliary nurses. The hospital is supported by development partners including NGOs and IOM.
- **Kulmiya Hospital:** this private hospital/clinic offers general in- and outpatient services, in particular to pregnant women. It is run by one medical doctor, a general practitioner. Patients in need of specialised treatment are referred to hospitals in Mogadishu. The supply of medicines was, at the time of data collection, affected by the Covid-19 situation.
- **Hoosh Medical Center:** this private pharmacy is one of the most preferred health facilities in town due to the presence of qualified staff and the price of medicines. People from all clans are welcome in the facility. At the time of data collection, the supply of medicines was severely affected due to interruptions of supply due to the Covid-19 situation.

<sup>282</sup> Tana, Sub-Study: Baardheere, p. 3

### 10.3.2. Consultation prices

Below is a table which presents findings from interviews with managers at two health facilities in Bardheere gathered by consultants and confirmed by visual inspection.<sup>283</sup>

Treatment prices are not fixed in South Central Somalia. In principle, there is no fee charged for a consultation at the public hospitals; private hospitals and practitioners are free to set their own prices.

The prices at the private facilities are high for the general population, especially those who have no employment or who work as day labourers, i.e. the income source of casual labour by earning daily wages from working in the informal sector such as construction, washing clothes, cleaning, cooking, porters, etc.<sup>284</sup>

N/A means that the specialisation was not available at the specific health facility at the time of the survey.

Consultation fees in USD<sup>285</sup>

	Public Bardhera General Hospital	Private Kulmiya Hospital
Registration fee <sup>286</sup>	Free	3
First visit/consultation with a doctor	Free	4 - 5
Second visit	Free	Free if it is a follow-up visit
General practitioner	Free	5
Cardiac tests (ECG)	N/A	N/A
Cardiologist	N/A	N/A
Cardiovascular surgeon	N/A	N/A
Endocrinologist/internal medicines doctors treating diabetes patients	N/A	N/A
General surgeon	N/A	N/A
Gynaecologist	Free	N/A
HIV specialist	N/A	N/A
Laboratory tests <sup>287</sup>	Free	3 - 5
Neuro-surgeon	N/A	N/A
Oncologist	N/A	N/A
Paediatrician	N/A	N/A
Paediatric surgeon	N/A	N/A
Physical therapist	N/A	N/A
Psychiatrist	N/A	N/A
Thoracic surgeon	N/A	N/A

<sup>283</sup> For further details please see volume two of this report *Health System Somalia: Consultation prices*

<sup>284</sup> Tana Sub-Study: Bardheere, p. 17

<sup>285</sup> Tana, *Health System Somalia: Consultation and medication prices, Appendix F*

<sup>286</sup> Could be the fee for obtaining a patient booklet / card

<sup>287</sup> Please see Tana Sub-Study: Kismayo for details about available laboratory tests

The table indicates the presence of these particular medical specialists, but does not necessarily mean a disease cannot be treated, as it may be treated by a general doctor. For further details, please check for specific diagnosis in the price tables.

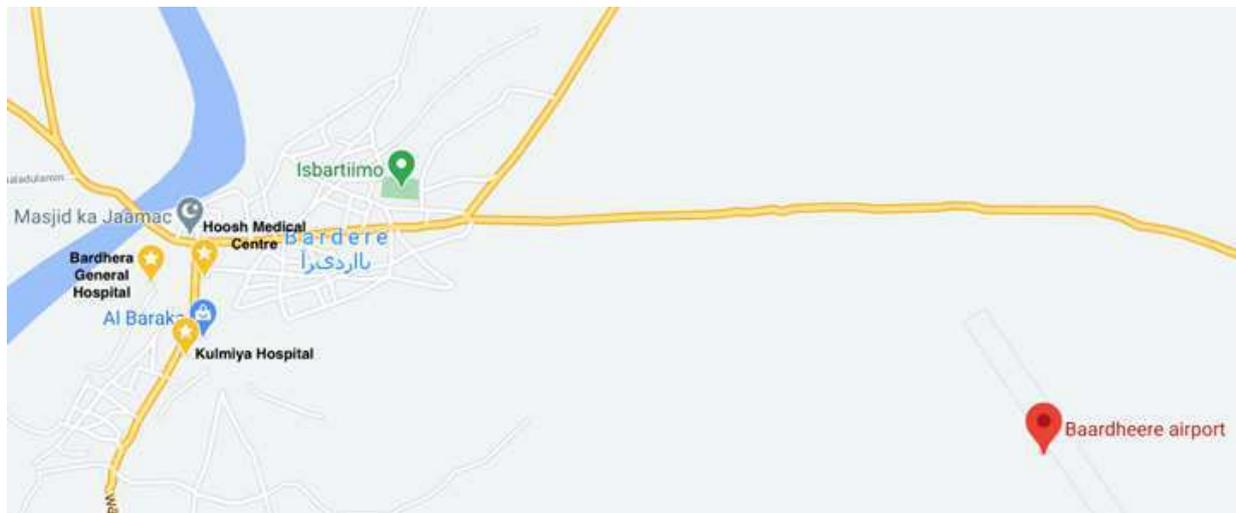
### 10.3.3. Access to health facilities

#### Security situation

Bardheere is under control of AMISOM/the Federal Government.<sup>288</sup> According to observations on the ground by the consultants, the town is considered to be safe but safety outside of town is unpredictable as al-Shabaab has a presence within ten kilometres of the town.<sup>289</sup> However, a source noted that violent incidents had taken place in the Geedo Region, including in Bardheere.<sup>290</sup>

According to observations by the consultants, the town has an airport which is open and functional.<sup>291</sup> The location of the airport *vis-à-vis* the surveyed health facilities can be seen on the map below.

**Map of location of Bardheere airport and surveyed health facilities**



#### Discrimination

The consultants did not notice signs of clan-based discrimination in the waiting areas of the surveyed health facilities.<sup>292</sup> As mentioned in section 2.6.1 *Discrimination based on clan affiliation* all interviewed sources confirmed that the different regions of Somalia are relatively homogeneous in terms of clan and sub-clan presence; therefore people seeking help at the health facilities are likely to come from the same clan as the health workers employed there.

<sup>288</sup> Political Geography Now, Control Map Somalia, May 2020, see map on p. 11 of this report

<sup>289</sup> Tana, Sub-Study: Bardheere, p. 4

<sup>290</sup> ACCORD: *Somalia, first quarter 2020: Update on incidents according to the Armed Conflict Location & Event Data Project (ACLED)*, 23 June 2020, [url](#), p. 5

<sup>291</sup> Tana, Sub-Study: Bardheere, p. 4

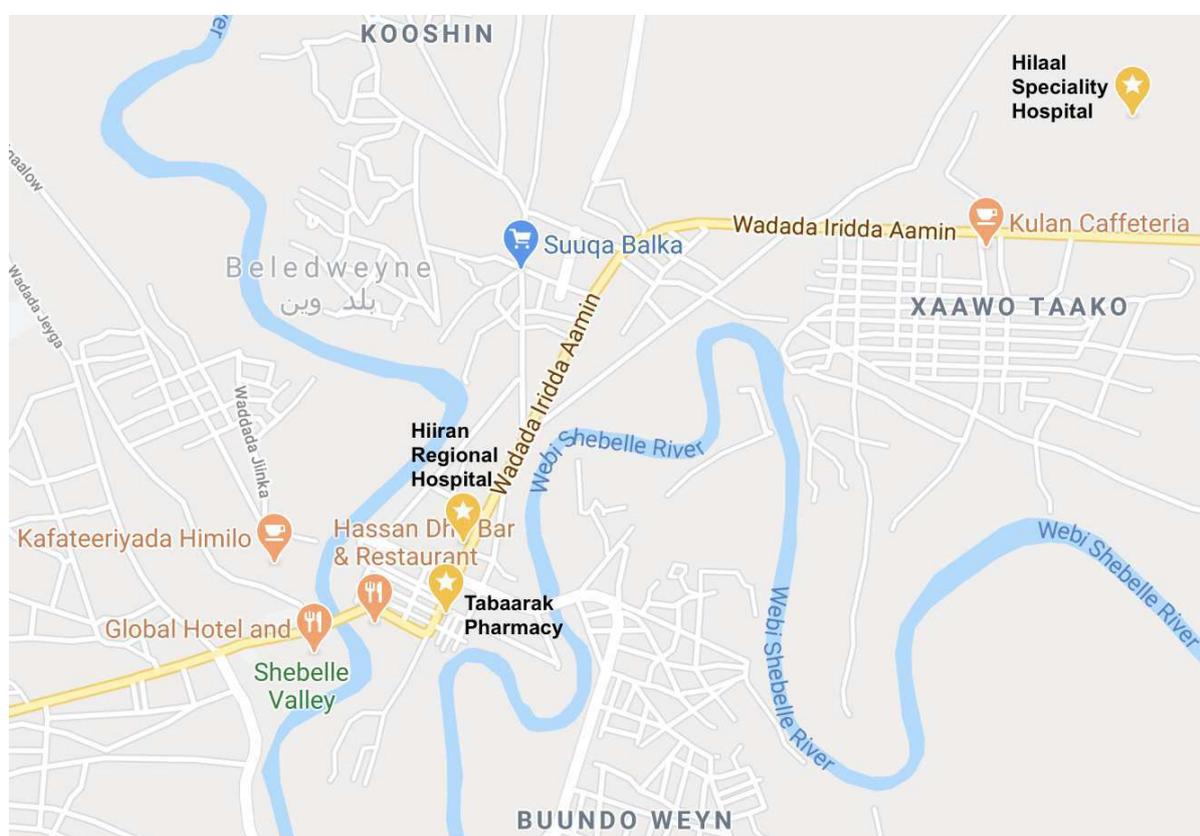
<sup>292</sup> Tana, Sub-Study: Bardheere, pp. 4-5

## 10.4. Beled Wayne

Beled Wayne (Belet Weyne/Beledweyne) is a town in the Hiiran region of Central Somalia.

In Beled Wayne a sample of three health facilities were researched: Hiiran Regional Hospital (public facility), Hilaal Speciality (private facility) and Tabaarak Pharmacy (private pharmacy). The location of these health facilities can be seen on the map below. These facilities were chosen by the consultants in dialogue with the COI Division, DIS to represent variation in health service delivery in the town. Most of the information on which this chapter is based comes from findings from interviews with hospital and pharmacy managers as well as direct observations carried out by a consultancy company. Further information can be found in the section *Methodology*.

**Map of Beled Weyne and the three health facilities surveyed: Tabaarak Pharmacy, Hilaal Speciality Hospital, and Hiiran Regional Hospital**



### 10.4.1. Services offered by the surveyed health facilities

The surveyed hospitals and their offer of services are:<sup>293</sup>

- **Hiiran Regional Hospital:** this public hospital is the largest health infrastructure in the region. The hospital offers only limited services within maternal health, paediatrics and general medicine. The medical doctors are specialised in general medicine and no specialised treatment is available. Some wards at the hospital currently have no qualified staff. The hospital was built 30 years ago by the Italian government and is currently supported by the NGO Wardi in partnership with UNICEF.
- **Hilaal Speciality Hospital:** this private hospital is specialised in gynaecology and general surgery. It offers services within oncology, internal medicine, gynaecology and paediatrics. The medical doctor with specialisation in oncology also treats patients as an internist doctor and a general practitioner.
- **Tabaarak Pharmacy:** this private pharmacy is a wholesale and retail pharmacy which is provided with medicines from Mogadishu by air or road. It sells medicines to smaller pharmacies in town as well as to individual clients. People in Beled Wayne often prefer to go directly to the pharmacy rather than seek help from the hospital as they often find that the hospitals have no medicines.

### 10.4.2. Consultation prices

Treatment prices are not fixed in South Central Somalia. In principle, there is no fee charged for a consultation at the public hospitals; private hospitals and practitioners are free to set their own prices.

Some hospitals differentiates between the poor and the more wealthy patients: the hospital management will assess the situation of the patient and his/her extended family and decide whether they will be able to pay or should be treated free of charge. The prices at the private facilities are high for the general population, especially those who have no employment or who work as day labourers, i.e. the income source of casual labour by earning daily wages from working in the informal sector such as construction, washing clothes, cleaning, cooking, porters, etc

Likewise, the prices of medications sold at Tabaarak Pharmacy are quite expensive for the poorer groups of the populations, but not too high for the middle class.

N/A means that the specialisation was not available at the specific health facility at the time of the survey.

#### Consultation fees in USD<sup>294</sup>

	Public	Private
	Hiraan Regional Hospital	Hilaal Speciality Hospital
Registration fee <sup>295</sup>	Free	Free
First visit/consultation with a doctor	Free	3

<sup>293</sup> All information from the consultancy report Tana Sub-Study: Beled Weyne.

<sup>294</sup> Tana, *Health System Somalia: Consultation and medication prices, Appendix F*

<sup>295</sup> Could be the fee for obtaining a patient booklet / card

Second visit	Free	3
General practitioner	Free	3
Cardiac tests (ECG)	N/A	20
Cardiologist	N/A	N/A
Cardiovascular surgeon	N/A	N/A
Endocrinologist/internal medicines doctors treating diabetes patients	N/A	N/A
General surgeon	N/A	100 - 300
Gynaecologist	Free	3
HIV specialist	N/A	N/A
Laboratory tests <sup>296</sup>	Free	1 - 6
Neuro-surgeon	N/A	N/A
Oncologist	N/A	3
Paediatrician	N/A	N/A
Paediatric surgeon	N/A	N/A
Physical therapist	N/A	N/A
Psychiatrist	N/A	N/A
TB specialist	N/A	N/A
Thoracic surgeon	N/A	N/A

The table indicates the presence of these particular medical specialists, but does not necessarily mean a disease cannot be treated, as it may be treated by a general doctor. For further details, please check for specific diagnoses in the price tables.

### 10.4.3. Access to health facilities

#### Security situation

Beled Wayne is under control of AMISOM/the Federal Government.<sup>297</sup> According to observations on the ground by the consultants, the town is considered to be safe and there are no blocked roads into town.

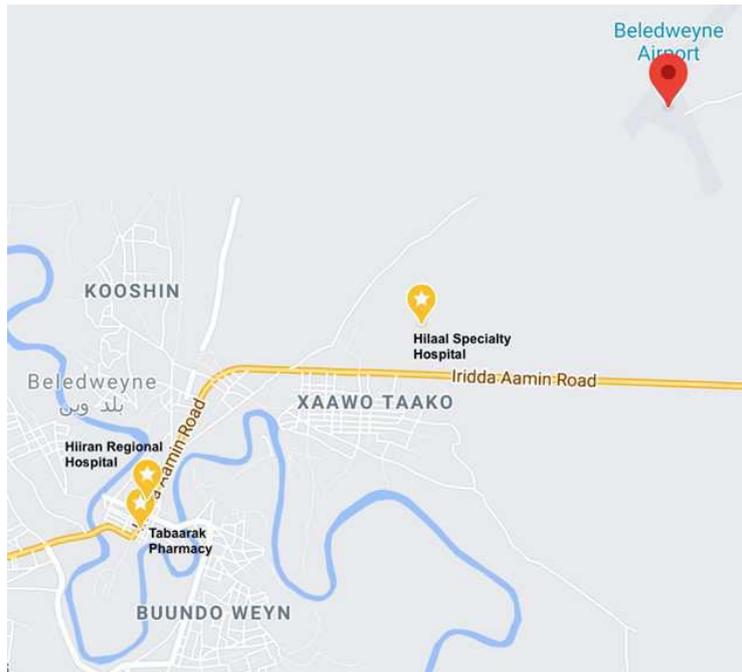
<sup>296</sup> Please check the Tana Sub-Study: Beled Wayne for details about available laboratory tests

<sup>297</sup> Political Geography Now, *Control Map Somalia*, May 2020, see map p. 28

However, another source noted that in Hiraaan region, including in Beled Wayne violent incidences have been taking place.<sup>298</sup> Safety outside of the town is considered to be unpredictable.<sup>299</sup>

According to observations by the consultants, Beled Wayne has an airport which is open and functional.<sup>300</sup> The location of the airport vis-à-vis the surveyed health facilities can be seen on the map below.

**Map of location of Beled Wayne airport and surveyed health facilities**



### *Discrimination*

The consultants did not observe any signs of discrimination in the waiting areas or at the entrance of the surveyed health facilities.<sup>301</sup> As mentioned in section 2.6.1 *Discrimination based on clan affiliation* all interviewed sources confirmed that the different regions of Somalia are relatively homogeneous in terms of clan and sub-clan presence; therefore people seeking help at the health facilities are likely to come from the same clan as the health workers employed there.

<sup>298</sup> ACCORD – Austrian Centre for Country of Origin and Asylum Research and Documentation: *Somalia, first quarter 2020: Update on incidents according to the Armed Conflict Location & Event Data Project (ACLED)*, 23 June 2020, [url](#), p. 5

<sup>299</sup> Tana Sub-Study: Beled Weyne, p. 5

<sup>300</sup> Tana Sub-Study: Beled Weyne, p. 5, UN OCHA: *Somalia: COVID-19 Monthly Report*, August 2020, [url, p. 4](#)

<sup>301</sup> Tana, Sub-Study: Beled Weyne, p. 5

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22. High level representative, Hilaal Speciality Hospital, Beled Weyne, interviewed in August 2020 by Tana
23. High level representative, Hiiran Regional Hospital, Beled Weyne, interviewed in August 2020 by Tana

## Appendix B: Interview notes

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### Federal Ministry of Health (FMoH)

Telephone interview 27 August 2020

*Interview with a consultant from the Ministry of Health and Human Resources*

*Health sector governance*

1. The interview began with a description of the organisation of the Somali health system. The organisation of the Somali health system was laid out during the time of the Siad Barre military government (1960-91). The health system became organised as a pyramid where the ministry of health through its Director General in Mogadishu and its different head of departments supervised the organisational and administrative structure of the sector. The health sector was highly centralised with the regional level at the top followed by district and village level facilities (health posts). After the collapse of the Siad Barre government in 1991, the whole system collapsed and the health sector is still suffering from complex after-effects in what can be described as 'a chronic emergency situation'. However, the interlocutor emphasised that many collaborative efforts are undertaken within the Ministry.
2. As a consequence of the conflictual past, the line of command in the health sector is 'very virtual'. There is no clear cut distribution of roles, responsibilities and sovereignties between the Ministry of Health at the central level and the ministries of health at the member state level. Therefore the health system in Somalia stands out as fragmented. There are a certain number of policies in place but the capacity to implement these policies is not sufficient. The health ministry official emphasised that capacity building within the Ministry is ongoing but as of now the technical capacity could best be described as 'low'.
3. In August 2020 several officials, including the Director General and the head of finance and administration, from the FMoH was given very harsh convictions by a Mogadishu court for mismanagement of funds, ranging from sentences of between four and 19 years of jail and even one verdict of ban against holding a government duty in the future. This was unexpected and it has affected the Ministry highly. The Ministry is in disarray now. The officials who were under accusation had immediately been replaced with interims and are now being permanently replaced.
4. The private health service providers are dominating the public health sector in Somalia. The private providers dominate in terms of capacity, service delivery, diagnostic equipment and experiences of staff.
5. The private sector used to be unregulated by the state but now there are certain regulations in place. A number of bills are being presented at the relevant legislative committees in the Parliament but they have not yet been signed.

6. The Turkish hospital in Mogadishu holds a special position as it is built and funded by the Turkish government but should be seen as a public hospital. Patients pay minor and nominal fees for services so a cost recovery mechanism is in place. Poor people are offered services free of charge.
7. The import of drugs into Somalia is still not regulated and a good quality control mechanism is lacking. There are attempts of creating such a collective mechanism to ensure quality control of medical logistics.
8. The health infrastructure in South Central Somalia is unequally distributed across the country so that there are more health facilities in the north compared to the south. This inequality is foreseen to remain so even though the government works towards equity in access to health adopting a right based approach.
9. Most of health services which are being provided in South Central Somalia are primary health care services, including maternal and child health

*Health insurance*

10. There is no form of health insurance for patients in Somalia.

*Discrimination based on clan or ethnic affiliation*

11. The health ministry official had never seen signs of discrimination based on ethnic or clan affiliation play in people's access to healthcare services during more than 40 years of working in the sector; no one had said to a patient that this patient is not eligible for a service because of clan, colour or religion. Everybody gets the same service at the public hospitals. In the private hospitals patients must pay out of their own pocket so poor people are excluded. Payment is the only barrier to treatment. The minority enjoys the same services as the majority. However, people with leprosy are living with a stigma and they might experience discrimination.

*Discrimination based on gender*

12. Somali women do enjoy liberty to go to the hospital. There might be a need for consent before a major intervention such as an operation, which would be from the woman's parents, not her husband. The influence from Arab culture may shape women's access to health care differently.

*The impact of Covid-19 health system crisis*

13. Initially, this health Ministry officially predicted that the impact of Covid-19 would be disastrous for the Somali health system, but when it came and the Ministry did its part of the job with the support of the Government, it turned out that they could do something to control the outbreak. The interlocutor found that the most efficient tool at that time was general population awareness campaigns about how to prevent transmission so that the population was well informed on how to react upon clinical symptoms. The government took a stepwise approach and prepared one hospital with quarantine facilities (the De Martino Hospital in Mogadishu), trained the health workforce in case management (nurses and doctors) and increased the laboratory capacity. Later

on, one wing of the Banadir Hospital in Mogadishu has also been included in the Covid-19 response. Schools and universities have been closed but otherwise the government of a poor country cannot enforce social distancing on its population as it would put people's livelihood at stake. Currently (August 2020) schools and universities are reopening.

14. Somalia seems to have been spared disastrous Covid-19 outbreak and has not had a high infection rate. Somalia has, like other African countries, been helped by the fact that the population is young. The import of medicines and the delivery of health services have, however, been affected. The movement of health workers (foreign as well as nationals) has been affected because of travel restrictions and medical supplies have been stock which is a problem since the country has no national production of medicines. It is unsure when import of medicines can be fully normalised again and the future is uncertain.

*Al-Shabaab and healthcare services*

15. The Ministry cannot get information from areas under mixed or unclear control. During the Covid-19 outbreak, members of al-Shabaab infused false information saying that this disease is not for Muslims and that it is pure propaganda. However, at one point they changed their mind and let people listen to the Government's general awareness raising campaigns on the television and the radio and began to accept that Covid-19 is a problem in the areas controlled by them. Apparently, they now have a big center for Covid-19 in their area.
16. Access to basic health care services is very poor in areas under mixed control because nobody supports health care provision there.

*Provision of healthcare services, specific chronic diseases*

17. Mental health diseases: That is an important problem since many people are affected. People who suffer from mental health problems such as depression or maniac episodes are looked down upon. From a health sector perspective they belong to the group of the most vulnerable among the vulnerable. Services for mental health are meager and scarce. There are not many specialised health workers. There are some specialised services in Mogadishu, especially in the public Italian Hospital Forlanini in the North of Mogadishu.
18. HIV/AIDS: Very good services are available free of charge and provided with respect to anonymity, including counselling.
19. Cancer: Very deficient, only diagnostic services but no treatment available.
20. Diabetes: Dialysis services are available in towns but not at district level.
21. Cardiac complications: Only diagnostics services, no corrective or surgical treatment available.
22. Spine surgery: Some support can be given in Turkish Hospital. But Not available outside of this hospital.

23. Transplantations, including aftercare: Scarce and insufficient.

24. Removal of tattoos: Not available. To have a tattoo would be very stigmatised.

## World Health Organization (WHO)

Skype interview 25 June 2020

*Interview with a WHO official, currently based in Nairobi. WHO works under a broad mandate to ensure equal access to healthcare services across the country in Somalia. The interview focused on the situation in South Central Somalia; not Somaliland or Puntland.*

### Health sector governance

1. WHO has a substantial presence in Somalia and has had so for the past years. The Somalia WHO Country office provides technical support to the Federal Government in order to ensure that people get access to quality health care to save lives, and to protect them from the impact of humanitarian catastrophes due to natural disasters and recurrent war and conflicts. WHO has technical expertise in controlling poliovirus outbreaks, measles outbreaks, and cholera outbreaks, and in the management and surveillance of Covid-19. WHO also supports the government in offering lifesaving supplies to victims of flooding and other natural disasters.
2. The Federal Ministry of Health is responsible for the regulation of the health sector in Somalia. The FMOH will sometimes send officials to check the quality of healthcare services across the country. However, this is usually an irregular activity. In terms of capacity to provide staffing to public healthcare facilities, the government relies heavily on those NGOs on the ground and on WHO for funding. In spite of the fact that the FMOH has the authority to ensure healthcare in all of the federal states, there are areas in the South and Central States, which are not accessible to the authorities. Therefore these areas cannot be monitored.
3. There is a very large presence of development partners on the ground, in particularly NGOs such as International Red Cross, USAID funded NGOs as well as agencies such as UNICEF, IOM, American Refugee Committee, World Vision International (WVI), INTERSOS and WHO. The not for profit health care sector is dominant in Somalia. Out of the approximately 1,200 functional healthcare facilities, more than 50 percent are run by NGOs.
4. Most of the services provided by the public healthcare facilities are related to primary health care; maternal and child healthcare and immunisation.

### Health insurance

5. There is no well-developed health insurance for Somali citizens other than those employed with an international organisation. People rely on those services provided for free at the public hospitals or go to a private hospital.

### Discrimination based on clan or ethnic affiliation

6. Clan dynamics are important in the politics of Somalia. There are certain clans which dominate over other clans by numbers; the bigger clans will always dominate over the smaller clans and that has

been an issue in many policy areas, including in how the boundaries have been drawn and how the states have been demarcated. Somalia is currently divided into six states plus Banadir/Mogadishu as the seventh administrative area. These boundaries are a function of clan presence in specific areas. 'Clan dynamics' can be explained as 'power relations and how the clans live together'. However, in the provision and access to healthcare there are no clan dynamics. Every Somali can access healthcare without discrimination. Banadir/Mogadishu is mixed in terms of population and clans.

### *Discrimination based on gender*

7. There is no discrimination based on gender when it comes to healthcare. However, in some instances women may face barriers in term of access to healthcare services, primarily because of cultural issues. For example, it has been documented that fewer women than men have been tested for Covid-19. It is likely that this is because men will restrict WHO's surveillance officers access to their homes and let women be tested.
8. Women in Somalia have freedom to exercise who they want to be; the issues of male consent in relation to access to healthcare services is not fully clear. Based on Somali culture, a husband or male person (father, brother etc.) will need to sign for major health decisions, e.g. surgery. For routine clinical check-up, women can make their own decisions.

### *The Covid-19 health system crisis*

9. The initial state of the Covid-19 pandemic in Somalia was initially difficult to manage. However, WHO Somalia took the lead in the response to Covid-19. WHO established an incident management team to support the government. Some of the supplies which have been allocated by donors could not be accounted for. The FGS decisively dealt with that problem and have worked focused with NGOs and WHO in the Covid-19 response since then. The government with support of WHO has provided logistic support and allowed cargo airplanes to land in the airport despite closed borders.
10. According to WHO, surveillance information shows that there has been a change in health seeking behaviour as an effect of Covid-19: less mothers are showing up at the hospitals because of fear of contagion and because of stigma.
11. No medicines which are being used in Somalia are produced locally; most of it is imported. The government has ensured free and safe movement of cargo planes into Somalia and in that sense import of medicines and medical supplies has not been completely suspended. There have, however, been a lot of interruptions of supply chains, especially for the Covid-19 response but also medicines for chronic diseases. Materials have been delayed and WHO had to borrow protection equipment from Kenya. Things have not yet normalised, but they are definitely getting better (June 2020).

*Al-Shabaab and healthcare services*

12. Al-Shabaab operates within the jurisdiction of the government borders. The government provides services to all the states but there are areas which are inaccessible because of al-Shabaab activities. Al-Shabaab does not have problems with people accessing healthcare, but they will not allow federal government officials or NGOs in areas controlled by them. In these places people may not access some healthcare services such as routine immunisation for children or mass immunisation campaigns for measles or polio in these areas because of insecurity.

*Provision of healthcare services, in particular for chronic diseases*

13. HIV-treatment: There is a very robust HIV/AIDS program in S/C Somalia. The program includes testing and treatment. There are facilities in the majority of the country.
14. Cancer: No specific cancer center. No oncologist in Somalia, hence a big gap in cancer treatment. People with financial means would seek treatment abroad.
15. Mental health: Neglected. No specialists or hospitals specific for mental health. Up until now mental healthcare has been almost non-existing in Somalia. WHO is working to provide new services based on a mapping of gaps and needs. There are no medicines available for mental health problems.
16. Kidney diseases: No specialised renal hospitals but some referral hospitals have renal departments. They are available in major cities, including in Banadir/Mogadishu. They have dialysis facilities.
17. Transplantations: No services are available. People in need of help would do a fundraiser for themselves and then go to Ethiopia, Kenya, Uganda or India, Emirates, Malaysia, Amman, or Jordan.
18. Cardiac complications: Not available.
19. Spine surgery: Not available, some bone specialists and rehabilitation specialist may be available in private hospitals.
20. Removal of tattoos: Never seen a Somali with a tattoo, no such services exist.

## UNFPA

### Skype-interview 25 June 2020

*Interview with UNFPA Somalia, based in Mogadishu. UNFPA and its implementing partners in Somalia support activities to promote sexual and reproductive health needs, in particularly emergency obstetric and neonatal care through CEmOC-centers (Comprehensive emergency obstetric care). UNFPA also supports the education of midwives, and promotes women's rights, including the fight against gender based violence (GBV) and harmful traditional practices, in particularly female genital mutilation (FGM).<sup>302</sup> The interview focused on the situation in S/C Somalia; not Somaliland or Puntland.*

#### Health sector governance

1. The interview began by a general description of the general health situation in Somalia with a particular focus on sexual and reproductive health indicators. The situation is challenging. About ten years ago, the country had the second highest maternal mortality in the world; it has gone down significantly since then but still remains high. The fertility rate is high at 6.7 per woman, thus repeated pregnancies coupled with high mortality means that the life time risk of dying for a woman engaged in reproduction is in average 1 in 20. Gender based violence (GBV) remains an important human rights concern as well as a health concern since women who are beaten and battered at home will usually seek help from the nearest health facility as a first step.
2. The technical capacity of the Federal Ministry of Health (MoH) to control the quality of healthcare services across the country was described as weak with room for improvement. The Federal Government is weak in terms of leadership and the capacity of the MoH to govern has been further weakened in the past months (since June 2020) because of Covid-19 and other challenges. This weakness leaves room for a mosaic of NGOs providing health services in semi-scattered, semi-unregulated way, each with their own strategies and country documents, combined with private for-profit clinics and hospitals. The MoH does not possess the required capacity to regulate the NGOs or the private hospitals and as a result there is little or no coordination between the central level (the Ministry of Health) and the decentral level (the Federal Ministries of Health). According to the interviewees, it was in particular secondary and tertiary level health services which escaped government control and regulation.
3. The Government has not yet reached a level to have the required capacity to regulate the health care sector, including regulation of hospitals, private sector and NGOs. Since the federal system is relatively new in South and Central Somalia, there is not yet a strong and natural relationship between the different levels of governance between the federal ministries and the state ministry in spite of authorities claiming that there is coordination.
4. The federal ministries are equipped with strategic plans based on the six building blocks of WHO (service delivery; health workforce; health information systems; access to essential medicines; financing; and leadership/governance). In principle the different regional states should be independent from the federal state in terms of service delivery and should be coordinating the

<sup>302</sup> Read more about UNFPA's country programme in Somalia [here](#).

different implementing partners (NGOs, UN and others). Sometimes the federal approves on certain initiatives which the state level is not informed about because the different actors are still in the process of learning how to operate in a federal system.

5. In the absence of coordination and a strong MoH to ensure the supply of public health care services, the private sector has become dominant. 60 percent of health services in Somalia are under the private sector. There is no act in place to regulate the private sector; there is no registration procedure for private healthcare providers.

#### *Health insurance*

6. There is no health insurance system in place for Somali citizens. Somalis who have a contract with an international NGO, the UN or an embassy may have access to health insurance through their employer; there is not a Somali-based insurance provider. For everybody else there is no insurance scheme available and they would need to pay a fee for services at a private clinic or at a public facility. Poor people would go to a public hospital such as the Banadir hospital.
7. Patients who suffer from chronic and non-communicable diseases and who need follow-up treatment and monitoring will have to pay for such treatment of their own pocket. The public hospitals do not offer treatment for chronic diseases (except for HIV/AIDS funded through the Global Fund to Fight AIDS, Tuberculosis and Malaria) and patients who have money will seek treatment in countries such as India or Turkey.
8. People who are better off in terms of money will go to the Somali-Turkish Hospital in Mogadishu, which is a private hospital, but cheaper than the common market or abroad to countries such as India or Turkey for specialised treatment.

#### *Discrimination based on ethnic or clan affiliation*

9. The existence of discrimination based on ethnic or clan affiliation is different in the cities compared to the rural areas. In the cities the population is mixed and children go to school regardless of ethnicity and people go to the hospitals regardless of ethnicity. In Mogadishu, it is very difficult to differentiate one clan from the other based on the look or appearances or on the way people speak as most people who are born in Mogadishu speak with a Mogadishu accent. It is also not possible to distinguish ethnic affiliation based on people's names as names are Arabic names, so it is only at the level of the great grandfather or his father, who might have 'a big name' that clan belonging would only be revealed. However, young people at the age of 40ies or 50ies would not have those names. Thus, there is not a problem of discrimination based on clan in access to healthcare services in the urban areas.
10. By contrast, the districts or regions far away from the urban areas are characterised by the fact that people living in a specific region or district all are from the same clan. That means that health workers from a different area would not be able to go and work there freely because the population would ask sceptical questions his or her clan belonging. All of the staff working at the

local health facility is also from the same clan or clan-group as the majority population. The system would be like 'this district is for clan A and all staff are from clan A'.

*Discrimination based on gender*

11. Women's access to healthcare services, in particular those related to sexual and reproductive health needs, is decided by their marital status and age. Unmarried and young women have little or no access to for example of family planning services. Unmarried women cannot access sexual health services of any kind if they are not accompanied by their mother or father because of the conservative nature of society. Married women in need of reproductive health services such as an emergency caesarean section at for example the Banadir hospital would not be given that lifesaving procedure unless there is male consent. The doctor would only intervene upon approval of the woman's husband and a male relative of the woman (a brother or a father). So if the husband failed to put credit on his phone and therefore could not answer a call from the hospital, the woman would not get a caesarean section and may die. This is not a matter of raising a financial guarantee for paying the costs, but a matter of ensuring that the family agrees with the intervention and the blood transfusion. In one known case, ten years ago, a local Somali doctor had proceeded with an emergency caesarean and the removal of the uterus to save the woman's life without having obtained consent from her family. Her life was saved, but the young woman became infertile. After that the doctor was chased out of the country by her family because they accused him of the young woman's infertility without having obtained their consent. The family claimed that to them there was no difference between her being infertile or having died by the standards of this family. These attitudes are a contributing factor to Somalia's high maternal mortality rates.
12. The government has not put in place any act, decree or regulation to address the problem of consent for emergency interventions, but there is a considerably amount of advocacy in order to change this.

*Al-Shabaab and healthcare services*

13. Al-Shabaab occupies a large part of South and Central Somalia and as occupiers they need functioning basic social services (such as schools, hospitals and shops). So there are functioning hospitals in the al-Shabaab occupied areas either by private providers, by the community themselves or by NGOs. Al-Shabaab does not allow for international NGOs to operate freely on the land they have captured, but some NGOs have been able to sneak through al-Shabaab and to carry on with their activities and provision of basic social services. NGO facilities are not many. The vast part of existing healthcare in these services are organised by the local community that has organised the establishment of a health post or health center. The community pays the salary of a doctor, nurse or a midwife and necessary medical supplies and equipment. This is typically done with the important financial contributions from the diaspora.
14. The level of care in the al-Shabaab captured areas is very low, it would for example not be possible to obtain treatment for diabetes and unlikely to have a caesarean section in a maternity ward.

15. The South-West state poses a particularly problem. Due to the high number of IDPs the population is more heterogeneous in terms of clan and sub-clans than in the rest of the country and here the clan dynamics also interfere with patients' needs for healthcare. People with chronic disease must travel to Mogadishu to seek help. To travel safely in- and outside of the South West state is only possible for people with a certain amount of money.
16. During the Covid-19 pandemic, al-Shabaab responded to the health system crisis by setting up a working group. This working group has warned the population against accepting foreign Covid-19 assistance (from foreign organisations or from the federal government) to control the epidemic outbreak. They are discouraging the population from accepting such assistance so for people living in al-Shabaab dominated areas they will think twice about accepting such assistance because it would harm their standing in the local community and could lead to repercussions.

*The Covid-19 health system crisis*

17. The UNFPA representatives stated that Somalia had not (as of June 2020) with less than 3000 registered cases had a huge number of Covid-19 cases, and had not had a high fatality case load. This could be explained by the fact that the country's testing capacity was not well developed, so many people who had suffered from flu like symptoms had not been tested and had recovered without making use of the healthcare system. By March there were two ventilators available for the whole country and those were in the Somali-Turkish Hospital. By June there were more ventilators.
18. Somalia is also a country with a young population and many activities take place outdoor so that could also be contributing factors to a low number of confirmed Covid-19 cases. Somalia has one hospital with isolations facilities dedicated to Covid-19 cases and that is the De Martino Hospital.
19. People did not practice social distancing as a means of protection. However, information about the seriousness of this epidemic and knowledge about the routes of infections, especially the fact that a number of health workers had been infected, had led to a widespread reluctance among people of Somalia to go to the hospitals with regular problems out of fear of infection.
20. The epidemic had peaked in the beginning of the year, followed by an outbreak in Mogadishu and then the virus had spread into the federal states. In March the government had closed for entries into the country and had locked down the airport. UN offices which are located in the airport and international NGOs remained closed by June, but government offices and ministries by contrast were open and functional.
21. Even though the airport was closed for commercial airlines cargos with humanitarian aid still entered the countries. Politicians and international diplomats could also leave and enter through the airport. By contrast, personal protection equipment (PPE) which had been ordered by this agency to protect midwives had been seriously delayed. Furthermore, prices had gone up as a result of market logic. There have been donations of medical supplies by EU, Turkey and Qatar and others which has been flown in.

22. Many of the private hospitals chose to close as a result of Covid-19 but the public hospitals could not even though PPE was not available for the health staff or even if they were available they were little. There were rumours about a high numbers of deaths among health workers and many health workers were afraid of going to work and stayed away from their posts. Many health workers and health officials became infected. That means that many other services, e.g. maternal health, were not available to the population. By the month of June, services have resumed as many of those infected had now recovered.

*Provision of healthcare services, in particular for chronic diseases*

23. There are two hospitals in Somalia that provides tertiary healthcare services. Even hospitals listed as tertiary care level hospitals in available documents do not in reality live up to international standards for tertiary care. These hospitals are Yerdimile Hospital and Somali Turkish Hospital (both are Turkish owned or affiliated private institutions).
24. There are three public hospitals in Mogadishu; the Banadir Hospital, being one of them. It is a referral hospital which offers secondary healthcare services. It is one of the largest hospitals in Mogadishu and in Somalia; the large majority of services are maternal healthcare with an important Comprehensive emergency obstetric care (CEmOC) component funded by UNFPA. It also has a child and nutrition part in this hospital.
25. Public hospitals are primarily offering services within two areas: maternal and newborn health and child health. About five years ago they also offered services within trauma, but that is also less now. For patients with chronic diseases they must go to a private hospital; they would not get treatment and care from district hospitals, except for HIV.
26. In Mogadishu, the leading hospital is the Somali-Turkish hospital. It is a private hospital which was fully built by the Turkish, in a time where Turkey is investing considerably in Somalia. It is staffed by Turkish health personnel. In spite of the fact that it is a private hospital it is consistently cheaper than the common market. It is well functioning and also has a training component of Somali doctors.
27. HIV/AIDS: There are ART centers across the country. They are supported by the Global Fund. In every district there is an ART center. The HIV medicines are available and free of charge. There are Somali guidelines which are in harmony with WHO guidelines.
28. Cancer: there are no medicines available, not even at the market. Even the Somali-Turkey Hospital has no oncologists. There is no chemo treatment available in the country. People with money would go to India, Ethiopia, Kenya or Djibouti for treatment.
29. Mental health diseases: There are no services which meet international standards for care.

30. There are some centers and services used to be free but that is not the case any longer as they receive no support any longer. What exist are private services and patients must buy medicines from the market. Those patients do not receive optimal care. Those patients may be chained by their hands and are beaten to control any psychotic episodes of aggression. This happens for patients who suffer from schizophrenia. They are likely to be chained during the episodes of aggression because there are no other ways to prevent them from doing harm to themselves or others. Beating or reciting of the Quran at home is being perceived as a part of traditional treatment.
31. Diabetes: Short and long acting insulin is available but not free of charge. There are no specific centers for people in need of treatment; it is an integrated service of private hospitals. Medicines can be bought everywhere without a prescription.
32. A national blood bank is in the process of being established at the Banadir Hospital. There will not be advanced tests such as tissue matching.
33. Transplantations: It is not possible to make transplantations in Somalia due to the fact that there is no blood bank. In case a patient needs transplantation, he/she will need money to be transferred to India or Turkey; Qatar is another option that is mainly used by government officials.
34. Kidney diseases: Only in the private sector they will have the capacity to give dialysis.
35. Chronic lung diseases such as TB which is a common disease in Somalia. TB treatment is free of charge funded by the Global Fund. Counterfeit medicines can be found at the market.
36. Spine surgery: There is no spine surgery done and no treatment available.
37. Removal of tattoos: There have not been cases of Somalis with a tattoo in Somalia because tattoos are a taboo and not culturally acceptable. There is no place where you can get a tattoo and not a place to get them removed.

## A UN Organisation

Skype-interview 29 June 2020

### *Health sector governance*

1. The capacity of the federal MoH to govern and regulate the sector is described as weak. Recently, in February 2020, the World Bank has moved towards normalising its relationship with the Federal Government of Somalia (FGS); the World Bank has assessed that the country lives up to standards which qualifies it for International Development Association (IDA) so that it can receive World Bank loans. The FGS has worked closely with the federal states to achieve this qualification which must be seen as an indicator of improved capacity. However, there have also been deteriorations and for the MoH they occurred with Covid-19 which hit the ministry hard and led to complete disruption. The Director-General (DG) and several staff have been arrested by the FG authorities before the end of March, just a few weeks into the epidemic. They are being accused of mismanagement of funds and charged of misusing funds which were originally donated by foreign development partners to control the spread of Covid-19. The accused are in court (June 2020) and an audit is ongoing. Thus, the capacity in terms of leadership and coordination is now worse than what it was.
2. There is a heavy reliance on private health care in South Central Somalia. The trust of the population in the public healthcare services which are available is very low and thus the uptake of public healthcare services is low. The challenge of the private healthcare offer is that it is highly unregulated as documented in several internal studies. A project of a bill of regulation which should enable the MoH to regulate the private health care sector has still not been passed. As a consequence, there is no act to regulate the staff they use, no regulation concerning the quality of the drugs being prescribed in these facilities. Among the private facilities, the Somali-Turkish Hospital is the preferred one. The Banadir Hospital, also located in Mogadishu, is considered to be the leading public hospital. Also the De Martino Hospital, also a public hospital in Mogadishu, was chosen over the Banadir Hospital to be the Covid-19 Hospital.

### *Health insurance*

3. No knowledge about any health insurance for Somali citizens other than those employed with international organisations.

### *Discrimination based on clan or ethnic affiliation*

4. Staff members are typically of the same ethnic background as the population in the areas of outreach for the specific health facility. For this reason the essential healthcare services in S/C Somalia, which is primary healthcare service, is accessible across the country to the population. For IDPs there are healthcare services within the IDP sites so they access healthcare from there.

### *Discrimination based on gender*

5. The status of a woman is depending on her age and marital status. The younger a woman is when she is married and her position in the household decides which voice she may have in deciding care

seeking. E.g. if she is very young and third wife, she has less say over whether she can go to the doctor. Married women may not obtain family planning (FP) without consent from their husband. She must be accompanied of her husband to the FP service.

*Al-Shabaab and healthcare services*

6. Al-Shabaab influence to a large extent of the availability and accessibility of healthcare services in areas under their control. Al-Shabaab troops attack aid workers and in a recent tragic case which took place in May 2020 seven health workers and one civilian were abducted and killed in a healthcare center run by Zamzam Foundation, in Gololey village, South Somalia. Al-Shabaab sought out the health workers and went to their houses or workplace in rural and outreach locations, took them and killed them or charged them very high cost of ransom.
7. In relation to Covid-19 al-Shabaab has accused 'the infidels' of bringing Covid-19 into the country and has created a very hostile atmosphere toward government efforts to control the outbreak. In May 2020, there was an increase in the number of attacks on the protected areas and these attacks were being associated with accusations of 'infidels' (foreigners) bring Covid-19 to the country and they should be punished for that.

*The Covid-19 health system crisis*

8. One effect of the Covid-19, and not just in Somalia, is that the whole global supply chain has broken down. Supplies are being stolen, not just in Somalia but it has also happened in Somalia where more things are going missing than normal.
9. There was about 10 ICU beds (with ventilator capacity) mapped as available for the whole of Somalia.

*Provision of healthcare services, in particular for chronic diseases*

10. HIV-treatment: there is not widespread availability, but UNICEF manages the Global Fund project and there are 15 public ARV centers across the country.
11. Cancer: there is not much of that.
12. Dialysis: only in the private sector
13. Mental Health: only in the private sector
14. Diabetes-treatment: basic lab facilities such as blood sugar testing is available including some treatment
15. Transplantations including after care: not available
16. Spine surgery: not available

17. Removal of tattoos: Tattoos are not common in the Somali community, so related demand and services do not exist.

## Swedish embassy

### Skype-interview 16 July 2020

*Interview with Sida, the Swedish International Development Cooperation Agency (Sida) at the Embassy of Sweden in Kenya, Somalia section, based in Nairobi. Sida has a number of different projects they support in Somalia. Sida supports the UNFPA country programme in Somalia, a support aiming at strengthening access to health and in particular Sexual and Reproductive Health. They also support Somalia in the establishment and development of a public health authority that can be independent from the central government. They further support the establishment of a digital health management information system. The interview focused on the situation in S/C Somalia; not Somaliland or Puntland.*

#### Health sector governance

1. The capacity to regulate both health care and access to pharmaceutical products is very limited. In terms of pharmaceutical products it is totally unregulated and anyone can establish a pharmacy in Somalia. Private pharmacies are selling medicines of which one cannot be sure whether or not they are fake. Given that the Federal Ministry of Health (FMoH) has a very limited budget to carry out health services and regulate them, the provision of services and their regulatory role is very limited. In 2019, the budget for FMoH was 4.9m USD.
2. There is a new federal model developing in Somalia. New ministries of health in the federal member states are being established. Sometimes these processes create tensions, as there is competition over resources, access to funds, and access to implementing partners. Taking into account that Somalia is in an election process and elections are scheduled at the end of this year or the beginning of next year and the power struggle between FMoH and the member states, the implementation of health projects, or any other project for that matter, is quite challenging.
3. With regard to the control of medicines, the interlocutor was guessing that it is almost non-existing. However, in terms of control of services, if the ministries are accompanied by an international partner, there are somewhat more control. For example UNFPA assists women giving birth by providing basic and comprehensive emergency obstetric care. In that case UNFPA works with other organisations, either local or international NGO's that has the experience to run such facilities. In these cases, there are some controls of the services. However, the government funding for health care service provision is really limited. Overall, the health care services can be divided into the services run by international organisations and NGO's and then there is the private sector, which is quite large in Somalia.
4. When asked whether there are differences in capacity among the different federal member states, the interlocutors pointed to different aspects: Overall, there is better access to health care services in urban areas than rural areas. In the example of the Federal Member State Jubaland, until the end of this fall, there was no functioning comprehensive emergency obstetric care. This implied that the public health service was not able to assist women having birth complications as it was not possible to do surgery. Now there have been some engagements, and hopefully during this fall it will be

possible to assist women in Jubaland having complications while giving birth. As another aspect, the interlocutor pointed out that some 20 percent of the Somalia population is nomads, and of course they also have their own difficulties accessing health care services. Furthermore, there is the question of security, which is not static. In the areas controlled by al-Shabaab in the South and South Central of Somalia it is much more difficult to access any sort of public services.

5. A large part, maybe half of the health care, is provided by the private sector which is totally unregulated. With the high out-of-pocket expenditure on health, it is a very difficult situation. Access to those private facilities that could in some instances have better quality than those in the public are expensive and only a few can afford these services.
6. The Banadir hospital is functioning, but it does not have the capacity to provide all the services for the population of Mogadishu. UNFPA provides support with maternal health services at the hospital.
7. For a general view of the health condition of the Somali population, the interlocutors referred to the study *The Somali Health and Demographic Survey 2020*<sup>303</sup> that recently concluded that only 11 percent of children between 12 and 23 months have concluded a full vaccination program. This means that 89 percent of children are not fully immunized. Furthermore, there are a lot of child marriages and a very high number of female genital mutilations (FGM) have taken place. According to the survey, 99 percent of girls in Somalia have undergone some sort of FGM. The number has probably increased during the Covid-19 outbreak as people are staying at home.

### *Health insurance*

8. There are private insurances in Somalia, but only a handful of people can afford it. It is the ambition to have universal health care coverage and that everyone should have access to healthcare, but at this stage Somalia is pretty far from it. Out-of-pocket expenditure is very high.

### *Discrimination based on clan or ethnic affiliation*

9. It is very difficult to say anything about clan dynamics as it is very difficult for an outsider to understand. To the knowledge of the interlocutor, there is no clear cut study on that. The interlocutor did not have information to share on that.

### *Discrimination based on gender*

10. There are barriers when women are seeking health care. Somalia has a very male dominated culture, so women are discriminated with regards to health and other aspects. Their educational levels are lower, they are married away in an early age and they cannot decide for themselves on health related issues. This discrimination is so intrinsic in the whole culture in Somalia. If there is a cost involved when a woman comes to a hospital, her husband needs to approve that the cost, as

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<sup>303</sup> Government of Somalia, UNFPA, *The Somali Health and Demographic Survey 2020*, [url](#)

she cannot decide for herself. The doctors or nurses will not proceed doing anything that cost money without the approval from the husband.

*The Covid-19 health system crisis*

11. Initially, there was a slow onset of the Corona virus, and then it spread quite fast. In the beginning of the pandemic, there was not a single lab in Somalia that could do the Covid-19 testing and facilitated by WHO, the samples were sent to Nairobi. After more or less a month, there was one central lab in Mogadishu that could do the testing and shortly after testing facilities opened in Puntland and in Somaliland. The testing facilities are established by the FMOH. When resources are allocated for Covid-19, there are fewer resources for other services such as immunization, for example.

*Al-Shabaab and health care services*

12. The interlocutor did not have information on health care provision in al-Shabaab controlled areas.

*Provision of healthcare services, in particular for chronic diseases*

13. For specific numbers of HIV/AIDS clinics, the interlocutor referred to *The Somali Health and Demographic Survey 2020*. There is a widespread discrimination towards people living with HIV in Somalia. However, the proportion of people living with HIV is relatively low compared to other countries in sub-Saharan Africa why the need for antiviral medicine is low.
14. The interlocutor was not aware of any cancer facilities. There might be a few private facilities in Mogadishu, but the ones who can afford treatment will travel to any of the Gulf States and they are treated there. It is not a lot of people that has this accessibility.
15. The interlocutor knew that the WHO has a pilot on mental health. In general, the overall budget is very limited, so there are no resources available for that.
16. The interlocutor did not have information about diabetes.
17. The interlocutor never saw a person with a tattoo in Somalia.

## Western embassy

E-mail interview 26 July 2020, additional comments added 12 September 2020

### Organisation / governance

1. How and to which extent does the Federal Ministry of Health have the technical capacity to regulate and control the quality of healthcare services between the federal member states and the regional authorities in terms of health services and provision of medicines/pharmaceuticals?
  - a. Any substantial differences between the federal states?

The FGS has very limited capacity to regulate health care delivery including medicines. Federal states vary in their capacity with Puntland having the highest capacity.

2. How is the division between public healthcare services, private for-profit health care services, NGO-run services and other healthcare services?
  - a. To which extent is the private sector dominant?

Private provision is most prevalent in urban areas and is nationally estimated to provide approx. 60 percent of care. Public provision is primarily donor funded and therefore better where externally funded programmes exist – these do not have national coverage.

- b. Is the private sector regulated by the MoH?

No. There is a health professional act going through parliament.

- c. How will you describe the capacity and state of the Banadir hospital?

I am not well placed to answer this. I understand it has recently been taken over by the FGS MoH.

### Access

3. Is there any form of health insurance or a cost recovery scheme in Somalia for patients?
  - a. If so how does it function?

No, not that I am aware of.

4. Which role does discrimination based on ethnic or clan affiliation play in people's access to healthcare services?
  - a. Can you describe this discrimination?

Ethnicity is linked to socio-economic status and therefore ability to access private fee-paying services. I understand certain clans or sub-clans also experience discrimination and do not feel comfortable accessing services in some areas.

- b. Does the public healthcare system seek to address access barriers based on discrimination?

Yes, the primary essential package for health services is available free to women and children (as mentioned this exists in certain locations and is donor funded).

5. Are women discriminated or in other ways hindered in their access to public (or private) health care services?
  - a. Does the public healthcare system seek to address these barriers?

Yes for some services women require their husbands to accompany them or give consent.

6. Impact of Covid-19 now and in the foreseeable future?
  - a. How is the Covid-19 pandemic affecting import of essential medicines and other pharmaceutical products?

I am not sure how the private sector has been affected. Globally supply chains are affected for public and private. There were some earlier concerns about the government impounding flights or demanding greater control of humanitarian supplies but I have not heard about this more recently.

Some [members of the staff of the Ministry of Health who were convicted for corruption] have been replaced e.g. Director of Admin and Finance, although I have not seen the name of a new DG. I think it is thought that there may still be further changes, including the Minister potentially being replaced.

- b. Is it correct that the de Martino Hospital in Mogadishu is the only hospital dedicated to Covid-19 cases?

No there are now several others, and this is expanding with World Bank support.

7. What is known about al-Shabaab provide health care in areas under al-Shabaab influence/control?
  - a. Does al-Shabaab attack public or private health facilities?
  - b. Some sources claim that al-Shabaab encourages women to seek healthcare services – does the organisation in any way try to prevent people from accessing healthcare?

Provision in al-Shabaab areas is primarily through ICRC and other humanitarian actors. They have been known to seize supplies, etc.

#### **Provision of healthcare services, specific chronic diseases**

8. Please describe the availability of treatment for HIV/AIDS?

HIV support comes through the Global Fund to Fight AIDS, TB and Malaria but it is limited. The epidemic is considered concentrated.

9. Cancer (is it correct that there is no treatment available in Somalia?)?

I am not sure what cancer treatment is available but imagine it is limited.

10. Mental health problems such as psychotic disorders, PTSD and depression?
  - a. Is it correct that 'rough treatment' has decreased?
  - b. Is it correct that 'rough treatment' has decreased?

11. Diabetes?

Treatment is very limited, I would guess to a limited number of private urban facilities.

## A development NGO

Skype-interview, 16 July 2020

### *Health sector governance*

1. The capacity to regulate, quality ensure and supervise health care services in Somalia is, for a number of reasons, weak. First, infrastructure and general capacity are non-existing and secondly the FMoH struggles to coordinate between different actors, including coordination between the federal government and the member states. The government does not have the full overview of which actors are actually delivering services. The level of government coordinating with the United Nations (UN) and development partners is equally weak. Also human resources at the policy levels are a challenge as there has been a high turnover of key decision makers at the ministries; this has led to changes in health priorities. Projects tend to start and stop again with intervals. The interlocutors pointed out that there may be a long term vision, however, what is critically missing is long term investment and commitment from the government to realise aspirations articulated in the National Development Plans and the Health Sector Strategic Plans. In some states, e.g. Somaliland, the coordination is, however, stronger. The coordination capability varies greatly: it is relatively strong in Somaliland, Puntland, and Jubaland (at state level) and weaker in other states. At the Federal level the major challenge is in effectively coordination among the different member states, UN and INGOs operating across Somalia.
2. In terms of having the right policies and overall framework plan for health care delivery the policies are available, but not necessarily implemented. There has been a lot of support from agencies to provide technical assistance /support Ministries to develop policies and strategies. The main challenge is that resources required to implement are scarce and this ultimately impacts on long-term change and commitment to improving health services and systems strengthening. The government have a health cluster which is quite active, including in terms of humanitarian coordination.
3. Up until 2016, the federal member states were not fully functional, nor fully established, etc. At that time, Somaliland, Puntland, and the federal government, the three governments had agreed to a coordination mechanism that was working at the time. What is happening now is that each of the federal member states is being considered as a zone especially in terms of donor relations and by constitution. Currently, there is a high level of tension, pressure and competition over resource allocation, especially because of the arrival of new donors, including the World Bank. The federal member states expect that the federal government should be contributing with not only oversight of how programs are designed and managed but also more importantly should be contributing with financial resources, to support the health services.

### *Quality control of health facilities and medicines*

4. The interlocutors were not certain whether any quality control is conducted by the federal government. They added that in Somaliland, a quality control department exists. From an overall perspective, the government does not have the capacity to assure the quality of medicines

throughout the whole supply chain from production to delivery. Partners such as the UN and international development organisations procure their own medical products in accordance with WHO standards. They take care to ensure transport, storage, and distribution under the right conditions. However, in general and for other actors in the private sector, there is no capacity to ensure the quality of medicine in the whole supply chain. The interlocutors pointed to several reasons for this such as corruption and the fact that there are no laboratories to check the quality of medicine. Most of the medicine that can be found at the market is of a very poor quality. Overall over 60 percent of the population seek services in the private sector, and a significant amount of the private sector facilities are pharmacies. The only requirement is to register a private pharmacy as a business with the government. It is quite difficult to qualify or assess the quality of medicines which is offered by the private sector, but is generally widely accepted the quality is mostly poor. Some of the studies conducted on the private sector have highlighted that providers have items on their shelves items which were past their expiry date.

#### *Division of private and public health care facilities*

5. The private sector is dominant in Somalia and it consists of different providers: many of them are pharmacies, while others are drugstores providing medicine for common diseases. A fair number of the providers are small clinics and a few providers are hospitals. These hospitals are mostly located in Mogadishu. The private sector is not regulated at all by the FMoH and the quality of services depends on the owner of each facility. However, there is a pending draft agreement on the partnership between the public and private sector, but it has not been finalised.
6. Most of the public sector is run by the UN or by NGOs; the government does not participate much in the sense that they do not contribute with financial resources and they do not support with supervision and quality control.

#### *Capacity of the Banadir hospital*

7. The interlocutors were not familiar with the capacity of the Banadir hospital.

#### *Health insurance and cost recovery schemes*

8. The government does not provide any health insurance and there is no insurance for poor people. For people working for the UN and NGOs there are private ones. Health insurance is for those who can afford the premium. The interlocutors did not know of any cost recovery scheme at community level.
9. Hospitals in the cities charge a small fee for some services. For example a caesarean section costs from 30 to 100 USD depending on the individual hospital. There is no cost recovery scheme at the community level that is working for the poor. Services in hospital or indeed at any facility in Somalia is free to the extent that the costs are covered by development NGOs/UN organisation.

*Discrimination based on clan or ethnic affiliation*

10. Somalia is based on clan relationships. The interlocutors pointed out, that one can live in Somalia without ever being able to understand the clan system in Somalia. Discrimination is taking place, but there is no data on this topic. This is because there are a high number of clans and subclans to the extent that for an outsider it is not possible to tell who is from which clan. In general, people cluster around their clans, except in the major cities. For example in Puntland, 90 percent of the population belong to the same clan. The discrimination would happen towards members of subclans living in the rural areas. In South West State and Jubaland there are many minority clans living there like the Bantooos, Arab Somalis, etc. Even NGOs working there are not able to distinguish between members of different clans; sometimes without being aware of it, the NGOs apply more assistance to people from one clan than to people from other clans. In terms of services, including access to livelihood, finances and healthcare, these minority clans are the most neglected. NGOs address the needs where possible and they try not to provide services based on belonging to specific groups. The interlocutors had not met complaints that minority clans could not access services. What is possible is that sometimes a particular clan is not able to access services in a health facility situated in a territory where a rival clan is living. The first mentioned clan will need to seek help at a facility in another area.

*Discrimination of women in their access to health care*

11. Somalia is a rather traditional place and people live within the framework of their culture. There are definitely some unwritten rules that affect women's access to health care, including family planning. For major operations, a woman still needs to get permission from her husband, for example to be given a caesarean section before they will perform it at the hospital. When asked if the required permissions only concerned maternal and child health interventions or other types of treatment as well, the interlocutors replied that for the most part there are very few services outside the key maternity health services being offered. There are very few doctors who have experience in communicable and non-communicable diseases. The mother-in-law can also decide on which health services should be given to her daughter-in-law instead of the husband. The interlocutors added that their organisation participated in a reproductive health working group in which the issue of informed consent was on the agenda. There was a discussion on giving legal rights to health workers to take action if there is an emergency situation with or without the consent of the spouse and family. However, this has not been implemented.

*The Covid-19 health system crisis*

12. The interlocutors stated that Somalia does simply not have the required infrastructure to address Covid-19 and there has been a lack of coordination. The UN had to a large extent been able to support the regional and district public hospitals in Somalia with regard to triage, referral and treatment of Covid-19. The government is too earthquake-stricken to deal with pandemics in that sort of scale. The ministries have developed a Covid-19 response plan, but in terms of the funding required a huge gap remains unfilled.

13. Moreover, there is a lack of testing and tracing; if people do have symptoms, they do not go to the hospitals, because they are afraid that they are going to be isolated from their families. They are further worried about who will take care of their families if they are being put in isolation. The interlocutors emphasised that there is a general concern that women will not seek help with regards to their pregnancy and immunisation services of their new-borns.
14. In Africa, Covid-19 will peak at a later stage, potentially in October and November 2020. The closing of borders has affected people's livelihood to a great extent, as a lot of people live below the poverty line and the virus has a huge economic impact. Moreover, nature catastrophes like flooding in Puntland, draughts and swarms of locusts have affected the health situation as well. Thus, in Somalia, Covid-19 is one out of many challenges. Besides, it is difficult to perform social distancing in urban areas as the population density is very high.

*Covid-19 and the import of medicines*

15. The Covid-19 outbreak has delayed the import of medicines to a great extent as most of medical supplies and medicine are imported from Europe, India and China, etc. The delay has been caused by the closure of the borders of these countries as well as of the Somalian borders. As a result of the closed borders, prices of common medicines have skyrocketed. For example, in March the cost of a box of face masks was 3 to 4 USD; now the price for the same product is 30 USD. However, now that the borders are opening again, the supply chain pressure has eased.
16. When asked which hospitals in Mogadishu are treating Covid-19 cases, the interlocutors replied that it seems that the only hospital providing care is the De Martino Hospital, supported by the Supreme Islamic Council of Somalia (SICS) SICS and the Red Cross. With regard to treatment outside of Mogadishu, there are a number of facilities dedicated to the treatment of Covid-19 of which some will provide separate triage areas and then they will refer, and the rest of the facilities will carry out the treatment; the intensive care unit (ICU) capacity will be housed in certain facilities.
17. Initially, during the first days when there was a lock-down, some cases of Covid-19 were detected at border crossing or in port areas in urban areas, including Mogadishu. For further information on Covid-19 in Somalia, the interlocutors referred to the WHO dashboard.

*Al-Shabaab provision of health care in al-Shabaab controlled areas*

18. The interlocutors were not able to give comments on this topic.

*Provision of healthcare services, in particular for chronic diseases*

19. The interlocutors emphasised that any sort of treatment outside of maternal and child health services there is a very restricted availability, especially in the public sector.
20. HIV/AIDS: The number of people living with HIV/AIDS in Somalia is very low. Since 2016, the level of funding for treatment of HIV/AIDS remains the same. For specific numbers of facilities the interlocutors referred to a WHO report from 2015-2016, where all existing facilities in Somalia are

mapped (the Service Availability and Readiness Report (Sara) published by WHO).<sup>304</sup> In the public sector, HIV/AIDS, TB and malaria are supported through the Global Fund to Fight AIDS, Tuberculosis and Malaria as vertical programmes. There has been a high level of criticism that treatment is not widely available across all levels of the health facilities. People are reluctant to go to the public sector facilities, because there is a risk of meeting a family member who is working in the facility; there is a lot of stigma.

21. Mental health care: The interlocutors pointed out, that there is a huge need for mental health facilities, but mental health care is highly neglected in Somalia and patients are being isolated. The interlocutors were not familiar with the exact number of any existing facilities for mental health patients. Generally speaking, due to the lasting conflict there is a large variety of mental health problems ranging from mild depression to schizophrenia. The interlocutors added that another aspect of the need for mental health care was the tradition of chewing Khat that people do to cope with the harsh conditions. The interlocutors did not know of specific facilities for mentally ill people.
22. Diabetes: Most hospitals and some private clinics would provide drugs and even insulin and they also offer testing of people living with diabetes.
23. Cancer: The interlocutors were not aware of any cancer facilities. Treatment of cancer is very rare; chemo and radiotherapy might exist in a few private facilities, but definitely not in public hospitals. The interlocutors thought that, in the whole country there is a maximum of five oncologists. Patients, who can afford treatment, will travel to any of the Gulf States, India or Kenya to be treated there. Only a few people can afford this.
24. Tattoos: The interlocutors did not have knowledge about the availability of tattoo removal facilities. They pointed out that tattoos and piercings are against religious beliefs in Somalia. There would be no market for opening up such a clinic.

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<sup>304</sup> WHO, *Somali Service Availability and Readiness Assessment (SARA): 2016 Report*, [url](#)

## Appendix C: Terms of reference

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### 1. Overview of the health care system

#### 1.1. Public health care:

- 1.1.1 Tertiary hospitals (advanced medical care)
- 1.1.2 District/Regional Hospitals
- 1.1.3 Primary health care (health centers/community health (basic health care services))

#### 1.2. Private health care

- 1.2.1 NGO run health facilities (non-profit sector)
- 1.2.2 Private health facilities (for-profit sector)

### 2. Medication

#### 2.1. Availability, including storage facilities, of medicines for patients suffering from :

- 2.2.1 Diabetes (type I & II)
- 2.2.2 Psychotic disorders, depression and PTSD
- 2.2.3 Pre- and aftercare for patients who have had a transplantation
- 2.2.4 Cardiac complications and hypertension
- 2.2.5 HIV/AIDS
- 2.2.6 Kidney diseases, including dialysis
- 2.2.7 Cancer
- 2.2.8 Chronic obstructive lung disease
- 2.2.9 Spine surgery

#### 2.2. The stable supply of these medicines will be assessed in Mogadishu and Ceel Buur/Ceeldheere; Kismaayo; Belet Wayne and Baardheere

#### 2.3. The supply will be assessed for generic names of medicines which are either registered as legal in the country or which is legally available through licensed pharmacies

#### 2.4. Extent of interruption in supply of the above mentioned medicines

### 3. Treatment

#### 3.1. Availability of relevant treatment for patients suffering from the above-mentioned conditions from public or private health facilities located in Mogadishu and in Mogadishu and Ceel Buur/Ceeldheere; Kismaayo; Belet Wayne and Baardheere.

#### 3.2. Availability of tattoo removal in Somalia

### 4. Accessibility

#### 4.1. Accessibility of medicines and treatment for the above mentioned conditions in terms of:

- 4.1.1 Geographical access in terms of accessibility via air, road and in relation to day/night security

## SOMALIA: HEALTH SYSTEM

- 4.1.2 Cost recovery mechanisms for selected groups
- 4.1.3 Possibly discrimination in terms of access to health facilities based on clan and/or ethnic affiliation
- 4.2. Contact established to Somalia Medicines Regulatory Authorities/ National Pharmacy Regulatory Board (PRB) (or the equivalent hereto)

## Appendix D: FMH Somali Essential Medicines List

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*Somali Republic Ministry of Health and Human Services, Somali Essential Medicines List,*

**Click here to reach the document.**

## Appendix E: Substudies on Mogadishu, Kismayo, Baardhere, Beled Wayne

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**To reach one of the sub-studies, click on the relevant headline:**

[Sub-Study Mogadishu](#)

[Sub-Study Kismayo](#)

[Sub-Study Baardheere](#)

[Sub-Study Beled Wayne](#)

## Appendix F: Health System Somalia: Consultation and medication prices

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**THE FEDERAL GOVERNMENT OF SOMALI  
REPUBLIC MINISTRY OF HEALTH AND  
HUMAN SERVICES**



# **SOMALI ESSENTIAL MEDICINES LIST**

**December 08, 2019**

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## **Acknowledgment**

The Federal Ministry of Health and Human Service extends its sincere gratitude to the World Health Organization (WHO) for their tremendous contribution in finalizing the updated list of the Somali Technical Medicine List (SEML).

MoH in collaboration with WHO conducted several joint consultative review meetings in November 2017 with the purpose of finalizing the Somali Essential Medicines List (SEML). A final draft was later produced after the joint meeting. The first publication of Somali essential medicines list was done in 1998 covering Somali standard treatment guidelines, training manual on rational management and use of medicines at the primary health care level which included the Somalia List of Essential Medicines.

This SEML was last updated in 2006, including additional sections on rational management and use of medicines, covering the areas of procurement, storage and dispensing, information on irrational practices such as misuse of injections, overuse of antibiotics and the importance of making a correct diagnosis.

The updated list will be used as working document for the Federal Ministry of Health (FMOH) to ensure efficient and comprehensive supply of medicines to the Somali people is well maintained. The SEML will complement treatment guidelines and other health related documents with the objective of standardizing medical care across all regions in Somalia.

The Ministry expressed its gratitude to WHO (Somalia) under the leadership of WHO Representative Dr Mamunur Rahman Malik together with his technical team especially in the department of Essential Medicine and Pharmaceutical Policies (EMP) that is led by Dr. Mohamed Bin Shahna and the entire team for their tireless work in updating and finalizing the SEML.

The Ministry further appreciates all the technical and financial support provided to the Ministry of Health and Human Service especially in the Department of Essential Medicine Policies and Health Products at WHO/HQ that is led by Dr Nicola Magrini and Dr Lorenzo Moja in the department of EMP

The Ministry would also like to recognize the efforts deployed by all regional states' health experts including doctors, pharmacists and directors of health programs for their contribution in finalizing this SEML.

The Ministry believes in, this SEML will be a guiding tool for all stakeholders in all matters related to procurements, management, distribution and regulation of medicines, this will ensure the availability of adequate essential medicines with a good quality are brought into the country.

We thank you for your continuous support and we always count on your assistance towards contributing to the overall vision of the Ministry which is, ensuring all Somali people have access to better healthcare services.

## FOREWARD

The Somali health service delivery covers four levels of health facilities namely primary health units, health centres, referral health centres and hospitals. The Primary Health Care is the cornerstone of the delivery of quality health care to all Somali people and medicines are an important aspect in ensuring the delivery of quality health care.

The first publication of essential medicines in Somalia was in 1998 covering Somalia standard treatment guidelines (STGs) and training manual on rational management and use of medicines at the primary health care level which included the Somali List of Essential Medicines. This document was updated in 2006, including additional sections on rational management and use of medicines, covering the areas of procurement, storage and dispensing.

It is important to recognize that the SEML implies medicines included are selected based on their safety, efficacy, cost & country context's profile amongst other criteria and cover the priority health needs of the whole population in Somalia and it's the responsibility of the Ministry of Health to ensure adequate availability of such medicines in the country whereas the exclusion of any medicine from this list does not mean that it is less effective in comparing to the alternative medicine which is included in the list.

The Ministry of Health believes that this list will serve all stakeholders and health services' providers as a tool for selecting and availing the most needed medicines at each level of the healthcare system at all times. The updated list will be used as working tool for MoH to ensure efficient and comprehensive supply of medicines to the people of Somalia while complementing the Somalia treatment guidelines and other health related documents to standardize medical care.

The Federal Ministry of Health continues to raise the awareness and training of health care personnel in SEML at all levels of healthcare to allow adherence of all health care providers. This List and other guidelines developed by the Ministry of Health will continue to be updated over time to meet any evidence based recommendations arising from SEML Selection Committee that will be suitable to our context and deemed necessary to improve the quality, safety, affordability and equitability of our health care services.

The Federal Ministry of Health extends special thanks to WHO country office Somalia for providing all the necessary technical support to ensure the success of updating the SEML Document. I do hereby commend to all the use of this document-The Somali Essential Medicine List- to the Glory of the Almighty Allah.

H.E. Dr. Fawziya Abikar Nur

Minister for the Ministry of Health and Human Services

Federal Government of Somali Republic



Mogadishu, 08 December 2019

<b>1. ANAESTHETICS, PREOPERATIVE MEDICINES AND MEDICAL GASES</b>	
<b>1.1 General anaesthetics and oxygen</b>	
<b>1.1.1 Inhalational medicines</b>	
halothane	<b>Inhalation.</b>
nitrous oxide	<b>Inhalation.</b>
isoflurane	<b>Inhalation.</b>
Oxygen	<b>Inhalation</b> (medical gas).
<b>1.1.2 Injectable medicines</b>	
ketamine	<b>Injection:</b> 50 mg (as hydrochloride)/mL in 10mL vial
propofol	<b>Injection:</b> 10 mg/ mL; 20 mg/ mL.
thiopental	<b>Powder for injection:</b> 500mg (sodium salt) in vial.
<b>1.2 Local anaesthetics</b>	
bupivacaine	Injection: 0.25%; 0.5% (hydrochloride) in vial. Injection for spinal anaesthesia: 0.5% (hydrochloride) in 4- mL ampoule to be mixed with 7.5% glucose solution
lidocaine	<b>Injection:</b> 1%; 2% (hydrochloride) in vial. <b>Injection for spinal anaesthesia:</b> 5% (hydrochloride) in 2- mL ampoule to be mixed with 7.5% glucose solution. <b>Topical forms:</b> 2% to 4% (hydrochloride).
lidocaine + epinephrine (adrenaline)	<b>Dental cartridge:</b> 2% (hydrochloride) + epinephrine 1:80 000. <b>Injection:</b> 1% (hydrochloride <b>or</b> sulfate) + epinephrine 1:200 000 in vial.
<i>Complementary List</i>	
<i>ephedrine</i>	<b>Injection:</b> 30 mg (hydrochloride)/mL in 1mL ampoule. <i>(For use in spinal anaesthesia during delivery, to prevent hypotension)</i>
<b>1.3 Preoperative medication and sedation for short-term procedures</b>	
atropine	<b>Injection:</b> 1 mg (sulfate) in 1mL ampoule.
midazolam	<b>Injection:</b> 1 mg/ mL. Oral liquid: 2 mg/ mL. Tablet: 7.5 mg; 15 mg.
morphine	hydrochloride) in 1-mL ampoule.
promethazine	<b>Oral liquid:</b> 5 mg (hydrochloride)/5 mL.

pethidine hydrochloride	<b>Injection:</b> 50mg/mL Solution for Injection
hyoscine butylbromide.	<b>Injection:</b> 20mg/mL 1mL
<b>1.4 Medical gases</b>	
oxygen	<b>Inhalation</b>  For use in the management of hypoxaemia. *No more than 30% oxygen should be used to initiate resuscitation of neonates less than or equal to 32 weeks of gestation.
<b>2. MEDICINES FOR PAIN AND PALLIATIVE CARE</b>	
<b>2.1 Non-opioids and non-steroidal anti-inflammatory medicines (NSAIMs)</b>	
acetylsalicylic acid	<b>Suppository:</b> 50 mg to 150 mg. <b>Tablet:</b> 100 mg to 500 mg.
diclofenac	<b>Injection:</b> 25mg/mL (as sodium) in 3mL ampoule. <b>Tablet:</b> 50mg, 100mg (as sodium).
ibuprofen	<b>Oral liquid:</b> 200 mg/5 mL. <b>Tablet:</b> 200 mg; 400 mg.
paracetamol	<b>Tablet:</b> 500mg. <b>Oral liquid:</b> 120mg/5mL, 125mg/5mL. <b>Rectal suppositories:</b> 125mg, 250mg.
<b>2.2 Opioid analgesics</b>	
morphine	<b>Granules (slow-release; to mix with water):</b> 20 mg –200 mg (morphine sulfate). <b>Injection:</b> 10 mg (morphine hydrochloride or morphine sulfate) in 1- mL ampoule. <b>Oral liquid:</b> 10 mg (morphine hydrochloride or morphine sulfate)/5 mL. <b>Tablet (slow release):</b> 10 mg–200mg (morphine hydrochloride or morphine sulfate). <b>Tablet (immediate release):</b> 10 mg (morphine sulfate). *Alternatives limited to hydromorphone and oxycodone
codeine	<b>Tablet:</b> 30 mg (phosphate).
fentanyl	<b>Transdermal patch:</b> 12 micrograms/hr; 25 micrograms/hr; 50 micrograms/hr; 75 micrograms/hr; 100 micrograms/hr *for the management of cancer pain

<b>2.3 Medicines for other common symptoms in palliative care</b>	
amitriptyline	<b>Tablet:</b> 10 mg; 25 mg; 75 mg.
cyclizine	<b>Injection:</b> 50 mg/ mL. <b>Tablet:</b> 50 mg.
dexamethasone	<b>Injection:</b> 4 mg/ mL in 1- mL ampoule (as disodium phosphate salt). <b>Oral liquid:</b> 2 mg/5 mL. <b>Tablet:</b> 2 mg [c]; 4 mg.
diazepam	<b>Injection:</b> 5 mg/ mL. <b>Oral liquid:</b> 2 mg/5 mL. <b>Rectal solution:</b> 2.5 mg; 5 mg; 10 mg. <b>Tablet:</b> 5 mg; 10 mg.
docusate Sodium	<b>Capsule:</b> 100 mg. <b>Oral liquid:</b> 50 mg/5 mL.
fluoxetine	<b>Solid oral dosage form:</b> 20 mg (as hydrochloride). >8 years.
haloperidol	<b>Injection:</b> 5 mg in 1- mL ampoule. <b>Oral liquid:</b> 2 mg/ mL. <b>Solid oral dosage form:</b> 0.5 mg; 2mg; 5 mg.
hyoscine butylbromide	<b>Injection:</b> 20 mg/ mL.
hyoscine hydrobromide	<b>Injection:</b> 400 micrograms/ mL; 600 micrograms/ mL. <b>Transdermal patches:</b> 1 mg/72 hours.
lactulose	<b>Oral liquid:</b> 3.1–3.7 g/5 mL.
loperamide	<b>Solid oral dosage form:</b> 2 mg.
metoclopramide	<b>Injection:</b> 5 mg (hydrochloride)/mL in 2- mL ampoule. <b>Oral liquid:</b> 5 mg/5 mL. <b>Solid oral form:</b> 10 mg (hydrochloride).
midazolam	<b>Injection:</b> 1 mg/ mL; 5 mg/ mL. <b>Solid oral dosage form:</b> 7.5 mg; 15 mg. <b>Oral liquid:</b> 2mg/ mL [c].
ondansetron	<b>Injection:</b> 2 mg base/ mL in 2- mL ampoule (as hydrochloride).

	<b>Oral liquid:</b> 4 mg base/5 mL. <b>Solid oral dosage form:</b> Eq 4 mg base; Eq 8 mg base. >1 month.
senna	<b>Oral liquid:</b> 7.5 mg/5 mL.
<b>3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS</b>	
chlorphenamine	<b>Injection:</b> 10 mg (hydrogen maleate) in 1mL ampoule. <b>Oral liquid:</b> 2mg/5mL <b>Tablet:</b> 4 mg (hydrogen maleate).
dexamethasone	<b>Injection:</b> 4 mg/1mL ampoule (phosphate disodium salt).
epinephrine (adrenaline)	<b>Injection:</b> 1 mg (as hydrochloride or hydrogen tartrate) in 1mL ampoule.
hydrocortisone	<b>Powder for injection:</b> 100 mg (as sodium succinate) in vial.
loratadine	<b>Oral liquid:</b> 1 mg/mL <b>Tablet:</b> 10 mg
prednisolone	<b>Tablet:</b> 5 mg , 25 mg. <b>Oral Liquid:</b> 5mg/5 mL.
<b>4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS</b>	
<b>4.1 Non-specific</b>	
charcoal, activated	<b>Powder.</b>
<b>4.2 Specific</b>	
acetylcysteine	<b>Injection:</b> 200 mg/ mL in 10- mL ampoule. <b>Oral liquid:</b> 10%; 20%.
atropine	<b>Injection:</b> 1 mg (sulfate) in 1mL ampoule.
calcium gluconate	<b>Injection:</b> 100 mg/mL in 10mL ampoule
flumazenil	<b>Injection:</b> 100 mcg/mL in 5mL amp
naloxone	<b>Injection:</b> 400 micrograms (hydrochloride) in 1- mL ampoule.
<b>5. ANTICONVULSANTS/ANTIEPILEPTICS</b>	
carbamazepine	<b>Oral liquid:</b> 100 mg/5 mL. <b>Tablet (chewable):</b> 100 mg; 200 mg. <b>Tablet (scored):</b> 100 mg; 200 mg.

diazepam	<b>Injection:</b> 5 mg/mL in 2mL ampoule (intravenous or rectal).
magnesium sulfate	<b>Injection:</b> 500 mg/mL in 2mL ampoule. (For use in eclampsia and severe pre-eclampsia and not for other convulsant disorders).
phenobarbital	<b>Injection:</b> 200 mg/mL (Phenobarbital sodium). <b>Tablet:</b> 30mg, 100 mg (Phenobarbital). <b>Oral liquid:</b> 15 mg/5 mL (as Phenobarbital or Phenobarbital sodium).
valproic acid (sodium valproate)	<b>Oral liquid:</b> 200 mg/5 mL. <b>Tablet (crushable):</b> 100 mg. <b>Tablet (enteric-coated):</b> 200 mg; 500 mg (sodium valproate).
lamotrigine	<b>Tablet:</b> 25 mg; 50 mg; 100 mg; 200 mg. <b>Tablet (chewable, dispersible):</b> 2 mg; 5 mg; 25 mg; 50 mg; 100 mg; 200 mg. *as adjunctive therapy for treatment-resistant partial or generalized seizures.
phenytoin	<b>Injection:</b> 50 mg/mL in 5mL vial (sodium salt). <b>Tablet:</b> 100 mg (sodium salt).
<b>6. ANTI-INFECTIVE MEDICINES</b>	
<b>6.1 Anthelmintics</b>	
<b>6.1.1 Intestinal anthelmintics</b>	
albendazole	<b>Tablet: (Chewable)</b> 200mg,400 mg <b>Oral Liquid:</b> 200mg/5mL, 10mL
mebendazole	<b>Tablet:</b> 100 mg, 500mg. <b>Oral liquid:</b> 100mg/5mL
niclosamide	<b>Tablet (chewable):</b> 500 mg.
praziquantel	<b>Tablet:</b> 150mg, 600mg.
ivermectin	<b>Tablet (scored):</b> 3 mg.
<b>6.1.2 Antifilarials</b>	
ivermectin	<b>Tablet (scored):</b> 3 mg.
diethylcarbamazine	<b>Tablet:</b> 50 mg; 100 mg (dihydrogen citrate).

<b>6.1.3 Antischistosomes and other antinematode medicines</b>	
praziquantel	<b>Tablet:</b> 600mg
<b>6.2 Antibacterials</b>	
<b>6.2.1 Beta-lactam medicines</b>	
amoxicillin	<b>.Powder for oral liquid:</b> 125 mg (as trihydrate)/5 mL; 250 mg (as trihydrate)/5 mL <b>Solid oral dosage form:</b> 250 mg; 500 mg (as trihydrate). <b>Powder for injection:</b> 250 mg; 500 mg; 1 g (as sodium) in vial.
amoxicillin + clavulanic acid	<b>Tablet:</b> 500 mg + 125 mg. <b>Powder for oral liquid:</b> 125 mg amoxicillin + 31.25 mg clavulanic acid/5 mL AND 250 mg amoxicillin + 62.5 mg clavulanic acid/5 mL <b>Powder for injection:</b> 500 mg (as sodium) + 100 mg (as potassium salt); 1000 mg (as sodium) + 200 mg (as potassium salt) in vial.
ampicillin	<b>Powder for injection:</b> 500 mg (as sodium salt) in vial.
benzathine penicillin	<b>Powder for injection:</b> 900 mg Benzyl penicillin (1.2 million IU), 1.44g (2.4million IU) in 5mL vial.
benzylpenicillin	<b>Powder for injection:</b> 600 mg (= 1 million IU); 3 g (= 5 million IU) (as sodium or potassium salt) in vial.
phenoxymethylpenicillin	<b>Tablet:</b> 250mg (as potassium salt); <b>Oral powder for suspension:</b> 250mg/5mL.
cloxacillin	<b>Capsule:</b> 500 mg (as sodium salt). <b>Powder for injection:</b> 500 mg (as sodium salt) in vial. <b>Powder for oral liquid:</b> 125 mg (as sodium salt)/5 mL.
cefalexin	<b>Powder for oral liquid:</b> 125 mg/5mL <b>Solid oral dosage form:</b> 250mg
procaine benzylpenicillin	<b>Powder for injection:</b> 1 g (=1 million IU); 3 g (=3 million IU) in vial.
cefazolin	<b>Powder for injection:</b> 1 g (as sodium salt) in vial. * also indicated for surgical prophylaxis. a >1 month.

vancomycin	<p><b>Capsule:</b> 125 mg; 250 mg (as hydrochloride). As a second choice For <i>C. difficile</i> infection.</p> <p><b>Powder for injection:</b> 500mg, 1g in Vial.</p>
ceftazidime*	<p><b>Powder for injection:</b> 250 mg, 1 g (as pentahydrate) in vial.</p> <p><i>*For use only in specified conditions as in pseudomonas infections.</i></p>
ceftriaxone	<p><b>Powder for injection:</b> 250 mg, 1 g (as sodium salt) in vial.</p> <p><i>* For use only in specified conditions.</i></p>
cefixime	<p><b>Capsule or tablet:</b> 200 mg; 400 mg (as trihydrate).</p> <p><b>Powder for oral liquid:</b> 100 mg /5 mL <b>[c]</b>.</p>
cefotaxime	<p><b>Powder for injection:</b> 250mg/vial, 1g /vial.</p>
<b>6.2.2 Other antibacterials</b>	
azithromycin	<p><b>Capsule:</b> 250 mg, 500mg. Oral liquid: 200mg/5mL.</p>
chloramphenicol	<p><b>Capsule:</b> 250 mg.</p> <p><b>Oily suspension for injection*:</b> 0.5 g (as sodium succinate)/ mL in 2- mL ampoule.</p> <p><i>* Only for the presumptive treatment of epidemic meningitis in children older than 2 years and in adults.</i></p> <p><b>Oral liquid:</b> 150 mg (as palmitate)/5 mL.</p> <p><b>Powder for injection:</b> 1 g (sodium succinate) in vial.</p> <p><b>Eye drops.</b></p>
ciprofloxacin	<p><b>Tablet:</b> 250 mg (as hydrochloride).</p> <p><b>Solution for IV infusion:</b> 2 mg/mL (as hyclate).</p> <p><b>Oral liquid:</b> 250mg/5mL anhydrous.</p>
doxycycline	<p><b>Oral liquid:</b> 25 mg/5mL; 50 mg/5mL (anhydrous).</p> <p><b>Solid oral dosage form:</b> 50 mg; 100 mg (as hyclate).</p> <p><b>Powder for injection:</b> 100 mg in vial.</p> <p><b>* Use in children &lt;8 years only for life-threatening infections when no alternative exists.</b></p>

erythromycin	<b>Capsule or tablet:</b> 250 mg (as stearate or ethyl succinate). <b>Powder for oral liquid:</b> 125 mg/ 5 mL, 250mg/5mL (as stearate or ethyl succinate).
gentamicin	<b>Injection:</b> 10 mg/mL; 40 mg/mL (as sulfate) in 2mL vials.
metronidazole	<b>Injection:</b> 500 mg in 100mL vial. <b>Oral liquid:</b> 200 mg (as benzoate)/5 mL. <b>Tablet:</b> 200mg - 500 mg.
nitrofurantoin	<b>Oral liquid:</b> 25 mg/5 mL. <b>Tablet:</b> 100 mg.
spectinomycin	<b>Powder for injection:</b> 2 g (as hydrochloride) in vial.
sulfamethoxazole + trimethoprim	<b>Injection:</b> 80 mg + 16 mg/ mL in 5- mL ampoule; 80 mg + 16 mg/ mL in 10- mL ampoule. <b>Oral liquid:</b> 200 mg + 40 mg/5 mL. Tablet: 100 mg + 20 mg; 400 mg + 80 mg; 800 mg + 160 mg. <b>*single agent trimethoprim may be an alternative for lower urinary tract infection.</b>
<b>6.2.3 Antileprosy medicines</b>	
dapsone	<b>Tablet:</b> 25 mg; 50 mg; 100 mg.
rifampicin	<b>Solid oral dosage form:</b> 150 mg; 300 mg.
clofazamine	<b>Capsule:</b> 50 mg; 100 mg
<b>6.2.4 Antituberculosis medicines</b>	
isoniazid	<b>Oral liquid:</b> 50 mg/5 mL. <b>Tablet:</b> 100 mg to 300 mg. <b>Tablet (scored):</b> 50 mg.
rifampicin	<b>Oral liquid:</b> 20 mg/ mL. <b>Solid oral dosage form:</b> 150 mg; 300 mg.
isoniazid + rifampicin	<b>Tablet:</b> 75 mg + 150 mg; 150 mg + 300 mg. 60 mg + 60 mg (For intermittent use three times weekly). 150 mg + 150 mg (For intermittent use three times weekly). <b>Tablet (dispersible):</b> 50 mg + 75 mg
ethambutol	<b>Oral liquid:</b> 25 mg/ mL <b>Tablet:</b> 100 mg to 400 mg (hydrochloride).
ethambutol + isoniazid + pyrazinamide + rifampicin	Tablet: 275 mg + 75 mg + 400 mg + 150 mg.
isoniazid + pyrazinamide + rifampicin	<b>Tablet:</b>

	75 mg + 400 mg + 150 mg. 150 mg + 500 mg + 150 mg (For intermittent use three times weekly). <b>Tablet (dispersible):</b> 50 mg + 150 mg + 75 mg (Paediatric formulation).
<b>Reserve second-line medicines for the treatment of multi-drug resistant tuberculosis (MDR-TB)</b>	
levofloxacin	<b>Tablet:</b> 250mg; 500 mg; 750 mg.
ethionamide	<b>Tablet:</b> 125 mg; 250 mg. <i>*Prothionamide may be an alternative.</i>
amikacin	<b>Powder for injection:</b> 100 mg; 500 mg; 1 g (as sulfate) in vial.
capreomycin	<b>Powder for injection:</b> 1 g (as sulfate) in vial
kanamycin	<b>Powder for injection:</b> 1 g (as sulfate) in vial.
moxifloxacin	<b>Tablet:</b> 400 mg.
cycloserine	<b>Solid oral dosage form:</b> 250 mg. <i>*Terizidone may be an alternative</i>
bedaquiline	<b>Tablet:</b> 100 mg.
clofazimine	<b>Capsule:</b> 50 mg; 100 mg.
streptomycin	<b>Powder for injection:</b> 1 g (as sulfate) in vial.
prothionamide	<b>Tablet:</b> 250mg.
delamanid	<b>Tablet:</b> 50 mg  <i>* &gt; 6 years</i>
p-aminosalicylic acid	<b>Granules:</b> 4 g in sachet. <b>Tablet:</b> 500 mg.
<b>6.3 Antiviral medicines</b>	
<b>6.3.1 Antiherpes medicines</b>	
aciclovir	<b>Oral liquid:</b> 200 mg/5 mL. <b>Powder for injection:</b> 250 mg (as sodium salt) in vial. <b>Tablet:</b> 200 mg.

<b>6.3.2 Antiretrovirals</b>	
<b>6.3.2.1 Nucleoside Reverse Transcriptase Inhibitors (NRTIs)</b>	
abacavir (ABC)	<b>Tablet:</b> 300 mg (as sulfate). <b>Tablet (dispersible, scored):</b> 60 mg (as sulfate).
lamivudine (3TC)	<b>Oral liquid:</b> 50 mg/5 mL <b>Tablet:</b> 150 mg
tenofovir disoproxil fumarate (TDF)*	<b>Tablet:</b> 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil). *also indicated for pre-exposure prophylaxis
zidovudine (AZT or ZDV)	<b>Capsule:</b> 250 mg. <b>Oral liquid:</b> 50 mg/5 mL. <b>Solution for IV infusion injection:</b> 10 mg/mL in 20- mL vial. <b>Tablet:</b> 300 mg. <b>Tablet (dispersible, scored):</b> 60 mg (as sulfate)
<b>6.3.2.2 Non-nucleoside Reverse Transcriptase Inhibitors (NNRTIs)</b>	
efavirenz (EFV or EFZ)*	<b>Tablet:</b> 200 mg (scored); 600 mg. * >3 years or >10 kg weight.
nevirapine (NVP)*	<b>Oral liquid:</b> 50 mg/5 mL. <b>Tablet:</b> 50 mg (dispersible); 200 mg. *> 6 weeks
<b>6.3.2.3 Protease inhibitors</b>	
lopinavir + ritonavir (LPV/r)	<b>Oral liquid:</b> 400 mg + 100 mg/5 mL. <b>Tablet (heat stable):</b> 100 mg + 25 mg; 200 mg + 50 mg. <b>Capsule containing oral pellets:</b> 40 mg + 10 mg.
atazanavir + ritonavir	<b>Tablet (heat stable):</b> 300 mg (as sulfate) + 100 mg.
<b>6.3.2.4 Integrase inhibitors</b>	
dolutegravir	<b>Tablet:</b> 50 mg
raltegravir*	<b>Tablet (chewable):</b> 25 mg; 100 mg. <b>Tablet:</b> 400 mg

	*for use in pregnant women and in second-line regimens in accordance with national treatment guideline.
<b>6.3.2.5 Fixed Dose Combinations</b>	
abacavir + lamivudine	<b>Tablet: Tablet (dispersible, scored):</b> 60 mg (as sulfate) + 30 mg, 120 mg (as sulfate) + 60 mg
efavirenz + emtricitabine* + tenofovir	<b>Tablet:</b> 600 mg + 200 mg + 300 mg (disoproxil fumarate equivalent to 245 mg tenofovir disoproxil). *Emtricitabine (FTC) is an acceptable alternative to 3TC, based on knowledge of the pharmacology, the resistance patterns and clinical trials of antiretrovirals.
efavirenz + lamivudine + tenofovir	<b>Tablet:</b> 400 mg + 300 mg + 300 mg (disoproxil fumarate equivalent to 245 mg tenofovir disoproxil)
emtricitabine* + tenofovir	<b>Tablet:</b> 200 mg + 300 mg (disoproxil fumarate equivalent to 245 mg tenofovir disoproxil). *Emtricitabine (FTC) is an acceptable alternative to 3TC, based on knowledge of the pharmacology, the resistance patterns and clinical trials of antiretrovirals. * Combination also indicated for pre-exposure prophylaxis.
lamivudine + nevirapine + zidovudine	<b>Tablet:</b> 30 mg + 50 mg + 60 mg; 150 mg + 200 mg + 300 mg.
lamivudine + zidovudine	<b>Tablet:</b> 30 mg + 60 ; 150 mg + 300 mg.
<b>6.4 Antihepatitis medicines</b>	
<b>6.4.1 Medicines for hepatitis B</b>	
tenofovir disoproxil fumarate (TDF)	<b>Tablet:</b> 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil).
entecavir	<b>Oral liquid:</b> 0.05 mg/ mL <b>Tablet:</b> 0.5 mg; 1 mg
<b>6.4.2 Medicines for hepatitis C</b>	
sofosbuvir	<b>Tablet:</b> 400 mg
daclatasvir	<b>Tablet:</b> 30 mg; 60 mg (as hydrochloride)

<b>6.5 Antifungal medicines</b>	
amphotericin B	<b>Injection:</b> 50mg in vial (as sodium deoxycholate <b>or</b> liposomal complex).
clotrimazole	<b>Vaginal cream:</b> 1%; 10%. <b>Vaginal tablet:</b> 100 mg; 500 mg. <b>Topical cream:</b> 1%
miconazole	<b>Cream or ointment:</b> 2% (nitrate).
fluconazole	<b>Capsule or tablet:</b> 50mg, 150mg <b>Injection:</b> 2 mg/mL in vial. <b>Oral liquid:</b> 50 mg/5 mL.
itraconazole	<b>Capsule:</b> 100 mg. <b>Oral liquid:</b> 10 mg/mL
griseofulvin	<b>Oral liquid:</b> 125 mg/5 mL. <b>Solid oral dosage form:</b> 125 mg; 250 mg
nystatin	<b>Oral liquid:</b> 100,000U/mL <b>Pessary:</b> 100 000 IU <b>Lozenge:</b> 100 000 IU. <b>Tablet:</b> 100 000 IU; 500 000 IU.
<b>6.6 Antiprotozoal medicines</b>	
<b>6.6.1 Antiamoebic and anti giardiasis medicines</b>	
diloxanide	<b>Tablet:</b> 500mg (as furoate). <b>a &gt;25 kg</b>
metronidazole	<b>Injection:</b> 500 mg in 100mL vial. <b>Oral liquid:</b> 200 mg (as benzoate)/5 mL. <b>Tablet:</b> 200mg - 500 mg.
<b>6.6.2 Antileishmaniasis medicines</b>	
sodium stibogluconate	<b>Injection:</b> 100 mg/ mL, 1 vial = 30 mL or 30%, equivalent to approximately 8.1% antimony (pentavalent) in 5- mL ampoule.
paromomycin	<b>Solution for intramuscular injection:</b> 750 mg of paromomycin base (as the sulfate).
amphotericin B	<b>Powder for injection:</b> 50 mg in vial (as sodium deoxycholate or liposomal complex)
<b>6.6.3 Antimalarial medicines</b>	
<b>6.6.3.1 for curative treatment</b>	
artemether + lumefantrine*	<b>Tablet:</b> 20 mg + 120 mg. <b>Tablet (dispersible):</b> 20 mg + 120 mg.

	<i>* Not recommended in the first trimester of pregnancy or in children below 5 kg.</i>
primaquine*	<b>Tablets:</b> 7.5mg, 15mg.  <i>* Only for use to achieve radical cure of P.vivax and P.ovale infections, given for 14 days. .</i>
dihydroartemisinin + piperaquine phosphate*	<b>Tablet :</b> 20mg + 160mg, 40mg+320mg <i>*&gt;5kg.</i>
artesunate	<b>Rectal dosage form:</b> 50 mg; 100 mg, 200 mg capsules ( <i>for pre-referral Rx of severe malaria only; patients should be taken to an appropriate health facility for follow-up care</i> ). <b>Injection:</b> ampoules, containing 60 mg anhydrous artesunic acid with a separate ampoule of 5% anhydrous sodium bicarbonate. <b>Tablet:</b> 50mg. <i>*For use in management of severe malaria.</i>
quinine	<b>Tablet:</b> 300 mg (quinine sulfate) or 300 mg (quinine bisulfate). <i>For use in 1<sup>st</sup> trimester pregnant women.</i> <b>Injection:</b> 300 mg quinine hydrochloride/mL in 2-mL ampoule. <i>For use only in management of severe malaria as alternate for artesunate inj.</i>
sulfadoxine + Pyrimethamine	<b>Tablet:</b> 500 mg + 25 mg. <i>* Only in combination with artesunate 50 mg.</i>
artemether	<b>Oily injection:</b> 80 mg/ mL in 1- mL ampoule, 20mg/mL amps. <i>* For use in the management of severe malaria.</i>
<b>6.6.3.2 for prophylaxis</b>	
doxycycline*	<b>Solid oral dosage form:</b> 100 mg (as hydrochloride or hyclate). <b>* &gt;8 years.</b>
mefloquine*	<b>Tablet:</b> 250 mg (as hydrochloride).  <i>* &gt;5 kg or &gt;3 months.</i>
<b>6.6.4 Antipneumocystosis and antitoxoplasmosis medicines</b>	
sulfamethoxazole + trimethoprim	<b>Injection:</b> 80 mg + 16 mg/mL in 5mL ampoule; <b>Solid oral dosage form:</b> 800+160mg.

<b>7. ANTIMIGRAINE MEDICINES</b>	
<b>7.1 For treatment of acute attack</b>	
acetylsalicylic acid	<b>Tablet:</b> 300 mg or 500mg
paracetamol	<b>Tablet:</b> 500 mg. <b>Oral liquid:</b> 120mg/5mL.
ibuprofen	<b>Tablet:</b> 200mg and 400mg <b>Oral Suspension:</b> 100mg/5mL.
<b>7.2 For prophylaxis</b>	
propranolol	<b>Tablet:</b> 40 mg, 20mg (hydrochloride).
<b>8. IMMUNOSUPPRESSIVES AND STEROID HORMONES</b>	
<b>8.1 Immunosuppressive medicines</b>	
azathioprine	<b>Injection:</b> 100 mg (as sodium salt) in vial. <b>Tablet:</b> 50 mg.
ciclosporin	<b>Capsule:</b> 25 mg. <b>Concentrate for injection:</b> 50 mg/ mL in 1- mL ampoule for organ transplantation.
<b>8.2 Steroid Hormones</b>	
dexamethasone	<b>Injection:</b> 4 mg dexamethasone phosphate (as disodium salt) in 1mL ampoule.
hydrocortisone	<b>Powder for injection:</b> 100 mg (as sodium succinate) in vial.
prednisolone	<b>Tablet:</b> 5 mg <b>Oral liquid:</b> 5 mg/mL
<b>9. MEDICINES AFFECTING THE BLOOD</b>	
<b>9.1 Antianaemia medicines</b>	
ferrous sulphate	<b>Oral liquid:</b> equivalent to 25 mg iron (as sulfate)/mL <b>Tablet:</b> equivalent to 60 mg iron.
ferrous salt + folic acid	<b>Tablet:</b> equivalent to 60 mg iron + 400 micrograms folic acid (nutritional supplement for use during pregnancy).
folic acid	<b>Tablet:</b> 400 micrograms*; 1 mg; 5 mg.
hydroxocobalamin (vitamin B12)	<b>Injection:</b> 1mg in 1mL ampoule
erythropoiesis-stimulating agents*	<b>Injection:</b> pre-filled syringe

	<i>N.B: available formulation to be found in the market.</i>
<b>9.2 Medicines affecting coagulation</b>	
heparin sodium	<b>Injection:</b> 1000 IU/ mL; 5000 IU/ mL; 20 000 IU/ mL in 1- mL ampoule.
enoxaparin	<b>Injection:</b> ampoule or pre-filled syringe 20 mg/0.2 mL; 40 mg/0.4 mL; 60 mg/0.6 mL; 80 mg/0.8 mL; 100 mg/1 mL; 120 mg/0.8 mL; 150 mg/1 mL *Alternatives are limited to nadroparin and dalteparin
phytomenadione	<b>Injection:</b> 1 mg/mL, 10 mg/mL in 5-mL ampoule. <b>Tablet:</b> 10 mg.
protamine sulphate	<b>Injection:</b> 10 mg/mL in 5-mL ampoule.
tranexamic acid	<b>Injection:</b> 100 mg/mL in 10-mL ampoule.
warfarin	<b>Tablet:</b> 1 mg; 2 mg; 5 mg (sodium salt).
acetylsalicylic acid	<b>Tablet:</b> 75mg-100mg.
clopidogrel	<b>Tablet:</b> 75 mg; 300 mg.
streptokinase	<b>Powder for injection:</b> 1.5 million IU in vial.
<b>9.3 Lipid-lowering agents</b>	
simvastatin*	<b>Tablet:</b> 5 mg; 10 mg; 20 mg; 40 mg. * For use in high-risk patients.
<b>10. Plasma substitutes</b>	
dextran 70	<b>Injectable solution:</b> 6%. * Polygeline, injectable solution, 3.5% is considered as equivalent.
<b>11. CARDIOVASCULAR MEDICINES</b>	
<b>11.1 Antianginal medicines</b>	
atenolol	<b>Tablet:</b> 50 mg; 100mg.
glyceryl trinitrate	<b>Tablet (sublingual):</b> 500 micrograms.
isosorbide dinitrate	<b>Tablet (sublingual):</b> 5 mg.
verapamil	<b>Tablet:</b> 40 mg; 80 mg (hydrochloride).
<b>11.2 Antiarrhythmic medicines</b>	
bisoprolol*	<b>Tablet:</b> 1.25 mg; 5 mg. * includes metoprolol and carvedilol as alternatives.

digoxin	<b>Injection:</b> 250 micrograms/ mL in 2- mL ampoule. <b>Oral liquid:</b> 50 micrograms/ mL. <b>Tablet:</b> 62.5 micrograms; 250 micrograms.
verapamil	<b>Tablet:</b> 40 mg; 80 mg (hydrochloride).
lidocaine	<b>Injection:</b> 20 mg (hydrochloride)/ mL in 5- mL ampoule
<b>11.3 Antihypertensive medicines</b>	
atenolol	<b>Tablet:</b> 50 mg; 100 mg
enalapril	<b>Tablet:</b> 2.5 mg; 5 mg (as hydrogen maleate).
hydralazine	<b>Powder for injection:</b> 20 mg (hydrochloride) in ampoule. <b>Tablet:</b> 25 mg, 50 mg (hydrochloride).
losartan	<b>Tablet:</b> 25 mg; 50 mg; 100 mg.
hydrochlorothiazide	<b>Oral liquid:</b> 50 mg/5 mL. <b>Solid oral dosage form:</b> 12.5 mg; 25 mg.
methyldopa	<b>Tablet:</b> 250 mg.
amlodipine	<b>Tablet:</b> 5 mg (as maleate, mesylate or besylate).
<b>11.4 Medicines used in heart failure</b>	
digoxin	<b>Injection:</b> 250 micrograms/mL in 2mL ampoule. <b>Oral liquid:</b> 50 micrograms/mL. <b>Tablet:</b> 62.5 micrograms; 250 micrograms.
enalapril	<b>Tablet:</b> 2.5 mg; 5 mg (as hydrogen maleate).
furosemide	<b>Injection:</b> 10 mg/mL in 2mL ampoule. <b>Tablet:</b> 40 mg.
hydrochlorothiazide	<b>Oral liquid:</b> 50 mg/5 mL. <b>Solid oral dosage form:</b> 12.5 mg; 25 mg.
<i>Complementary list</i>	
Dopamine	<b>Injection:</b> 40 mg/mL (hydrochloride) in 5- mL vial.
<b>12. DIAGNOSTIC AGENTS</b>	
<b>12.1 Ophthalmic medicines</b>	
fluorescein	<b>Eye drops:</b> 1% (sodium salt).
tropicamide	<b>Eye drops:</b> 0.5%.
atropine *	<b>Solution (eye drops):</b> 0.1%; 0.5%; 1% (sulfate).

	* Or homatropine (hydrobromide) or cyclopentolate (hydrochloride).
<b>12.2 Radiocontrast media</b>	
amidotrizoate	<b>Injection:</b> 140 mg to 420 mg iodine (as sodium or meglumine salt)/ mL in 20- mL ampoule.
barium sulfate.	<b>Aqueous suspension.</b>
<b>13. DERMATOLOGICAL MEDICINES (topical)</b>	
<b>13.1 Anti-fungal medicines</b>	
clotrimazole	<b>Cream:</b> 1%
ketoconazole	<b>Shampoo:</b> 1%, 2%
terbinafine	<b>Cream: 1% or Ointment:</b> 1% terbinafine hydrochloride
<b>13.2 Anti-infective medicines</b>	
silver sulfadiazine	<b>Cream:</b> 1%, in 250g container.
mupirocin	<b>Ointment:</b> 2%. <b>Cream:</b> 2% (as mupirocin calcium).
<b>13.3 Anti-inflammatory and antipruritic medicines</b>	
calamine lotion	<b>Lotion.</b>
hydrocortisone	<b>Ointment and cream:</b> 1% (acetate).
betamethasone	<b>Cream or ointment:</b> 0.1% (as valerate).
<b>13.4 Scabicides and pediculicides</b>	
benzyl benzoate	<b>Lotion:</b> 25%.
permethrin	<b>Cream:</b> 5%. <b>Lotion:</b> 1%.
<b>14. DISINFECTANTS AND ANTISEPTICS</b>	
<b>14.1 Antiseptics</b>	
chlorhexidine	<b>Solution:</b> 5% (digluconate).
ethanol	<b>Solution:</b> 70% (denatured).
povidone iodine	<b>Solution:</b> 10% (equivalent to 1% available iodine).

<b>14.2 Disinfectants</b>	
chlorine base compound	<b>Powder:</b> (0.1% available chlorine) for solution
chlorine water tablets (acqua tabs)	<b>Tablet:</b> 1.67g <i>* For water treatment and as general disinfectant in hospitals and healthcare facilities.</i>
<b>15. DIURETICS</b>	
furosemide	<b>Injection:</b> 10 mg/mL in 2mL ampoule. <b>Tablet:</b> 40 mg.
hydrochlorothiazide	<b>Tablet (scored):</b> 25 mg
mannitol	<b>Injectable solution:</b> 10%; 20%.
spironolactone	<b>Tablet:</b> 25 mg.
<b>16. GASTROINTESTINAL MEDICINES</b>	
<b>16.1 Antacids and other antiulcer medicines</b>	
aluminium + magnesium hydroxide	<b>Tablets:</b> 400mg+400mg. <b>Oral liquid:</b> 200mg+200mg/5mL.
omeprazole	<b>Powder for injection:</b> 40 mg in vial <b>Powder for oral liquid:</b> 20 mg; 40 mg sachets. <b>Solid oral dosage form:</b> 10 mg; 20 mg; 40 mg.
ranitidine	<b>Injection:</b> 25 mg/ mL (as hydrochloride) in 2- mL ampoule. <b>Oral liquid:</b> 75 mg/5mL (as hydrochloride). <b>Tablet:</b> 150 mg (as hydrochloride).
<b>16.2 Antiemetic medicines</b>	
metoclopramide	<b>Injection:</b> 5 mg (hydrochloride)/ mL in 2- mL ampoule. <b>Oral liquid:</b> 5 mg/5 mL <b>Tablet:</b> 10 mg (hydrochloride).
ondansetron	<b>Injection:</b> 2 mg base/ mL in 2- mL ampoule (as hydrochloride). <b>Oral liquid:</b> 4 mg base/5 mL. <b>Solid oral dosage form:</b> Eq 4 mg base; Eq 8 mg base; E.q 24 mg base.
dexamethasone	<b>Injection:</b> 4 mg/ mL in 1- mL ampoule (as disodium phosphate salt). <b>Oral liquid:</b> 0.5 mg/5 mL; 2 mg/5mL.

	<b>Solid oral dosage form:</b> 0.5 mg; 0.75 mg; 1.5 mg; 4 mg.
<b>16.3 Antispasmodic medicines</b>	
hyoscine butylbromide	<b>Injection:</b> 20mg/mL. <b>Tablet:</b> 10mg.
<b>16.4 Laxatives</b>	
senna	<b>Tablet:</b> 7.5 mg (sennosides) (or traditional dosage forms).
<b>16.5 Medicines used in diarrhoea</b>	
loperamide	<b>Tablet:</b> 2mg.
oral rehydration solution (ORS)	<b>Powder for dilution:</b> (WHO formula) in sachet for 1 litre of electrolyte solution.
zinc sulphate*	<b>Tablet, dispersible:</b> 20mg * <i>used as an adjunct to ORS.</i>
<b>17. HORMONES, OTHER ENDOCRINE MEDICINES AND CONTRACEPTIVES</b>	
<b>17.1 Insulins and other medicines used for diabetes</b>	
insulin injection (soluble)	<b>Injection:</b> 40 IU/ mL in 10- mL vial; 100 IU/ mL in 10- mL vial.
intermediate-acting insulin	<b>Injection:</b> 40 IU/ mL in 10- mL vial; 100 IU/ mL in 10- mL vial (as compound insulin zinc suspension or isophane insulin).
insulin mixed	<b>Injection:</b> 100 IU/mL in 10 mL vial as 30/70 of soluble/intermediate acting).
gliclazide*	<b>Solid oral dosage form:</b> (controlled-release tablets) 30 mg; 60 mg; 80 mg. * glibenclamide not suitable above 60 years.
metformin	<b>Tablet:</b> 500 mg (hydrochloride).
glucagon	<b>Injection:</b> 1 mg/ mL.
<b>17.2 Thyroid hormones and antithyroid medicines</b>	
propylthiouracil	<b>Tablet:</b> 50 mg.
levothyroxine	<b>Tablet:</b> 25 micrograms; 50 micrograms; 100 micrograms (sodium salt).
<b>17.3 Contraceptives</b>	
<b>17.3.1 Oral hormonal contraceptives</b>	
ethinylestradiol + levonorgestrel	<b>Tablet:</b> 30 micrograms + 150 micrograms.
ethinylestradiol + norethisterone	<b>Tablet:</b> 35 micrograms + 1 mg.

levonorgestrel	<b>Tablet: 30 micrograms; 750 micrograms (pack of two).</b>
<b>17.3.2 Injectable hormonal contraceptives</b>	
medroxyprogesterone acetate	<b>Injection (intramuscular):</b> 150 mg/ mL in 1- mL vial. <b>Injection (subcutaneous):</b> 104 mg/0.65 mL in pre-filled syringe or single-dose injection delivery system.
norethisterone enantate	<b>Oily solution:</b> 200 mg/ mL in 1- mL ampoule.
<b>17.3.3 Intrauterine devices</b>	
copper-containing device	
levonorgestrel-releasing intrauterine system	Intrauterine system with reservoir containing 52 mg of levonorelrel
<b>17.3.4 Barrier methods</b>	
condoms	
diaphragms	
<b>17.3.5 Implantable contraceptives</b>	
etonogestrel-releasing implant	Single-rod etonogestrel-releasing implant, containing 68 mg of etonogestrel.
levonorgestrel-releasing implant	Two-rod levonorgestrel-releasing implant, each rod containing 75 mg of levonorgestrel (150 mg total).
<b>17.3.6 Intravaginal contraceptives</b>	
progesterone vaginal ring*	Progesterone-releasing vaginal ring containing 2.074 g of micronized progesterone.  *For use in women actively breastfeeding at least 4 times per day
<b>17.4 Estrogens</b>	
<b>18. IMMUNOLOGICALS</b>	
All vaccines should comply with the WHO Requirements for Biological Substances.	
<b>18.1 Sera and immunoglobulins</b>	
anti D immunoglobulin (human)	<b>Injection:</b> 250mcg single dose vial.
antitetanus immunoglobulin (human)	<b>Injection:</b> 500IU in vial.
antirabies immunoglobulin (human)	<b>Injection:</b> 150 IU/mL in vial.
anti-venom* immunoglobulin	<b>Injection:</b> *Data on local prevalence of common snake types essential to specify treatment.
diphtheria antitoxin	<b>Injection:</b> 10 000 IU; 20 000 IU in vial.

<b>18.2 Vaccines</b>	
BCG Vaccine	<b>Injection:</b> live attenuated, in 20-dose vial.
DPT+ hepatitis B+ Hib vaccine (Pentavalent)	<b>Injection:</b> in a 2-dose vial.
injectable poliomyelitis vaccine (IPV)	<b>Injection.</b>
HPV vaccine	
meningococcal meningitis vaccine	
measles vaccine	<b>Injection:</b> live attenuated, 10 x 0.5 mL dose vial + diluent.
oral poliomyelitis vaccine (OPV)	<b>Oral drops:</b> live attenuated, in 20 dose vial (2mL).
rabies vaccine	<b>Powder for injection:</b> rabies antigen $\geq 2.5$ IU/0.5mL dose.
tetanus toxoid vaccine	<b>Injection:</b> $\geq 40$ IU /0.5mL in 10-dose vial
hepatitis B Vaccines	<b>injection</b>
yellow fever vaccine	<b>Injection:</b> 1000 LD50 units/0.5mL in 10-dose vials.
hepatitis A vaccine	
cholera vaccine	
typhoid vaccine	
<b>19. MUSCLE RELAXANTS (PERIPHERALLY-ACTING) AND CHOLINESTERASE INHIBITORS</b>	
neostigmine	<b>Injection:</b> 500mcg in 1mL ampoule, 2.5mg (metilsulfate) in 1 mL ampoule.
suxamethonium	<b>Injection:</b> 50mg(chloride) /mL in 2-mL ampoule <b>Powder for injection</b> (chloride), in vial.
atracurium	<b>Injection:</b> 10 mg/ mL (besylate).
<b>20. OPHTHALMOLOGICAL PREPARATIONS</b>	
<b>20.1 Miotics and antiglaucoma medicines</b>	
acetazolamide	<b>Tablet:</b> 250 mg.
latanoprost	<b>Solution (eye drops):</b> latanoprost 50 micrograms/mL.
pilocarpine	<b>Solution (eye drops):</b> 2%; 4% (hydrochloride or nitrate).
timolol	<b>Solution (eye drops):</b> 0.25%; 0.5% (as hydrogen maleate).
<b>20.2 Anti-infective agents</b>	
gentamicin	<b>Solution (eye drops):</b> 0.3% (sulphate).
erythromycin*	<b>Ointment:</b> 0.5%.

	*Infections due to Chlamydia trachomatis or Neisseria gonorrhoea. * Azithromycin could be used as an alternative.
tetracycline	<b>Eye ointment: 1% (Hcl).</b>
aciclovir	Ointment: 3% W/W.
natamycin	Suspension: (eye drops): 5%
<b>20.3 Anti-inflammatory agents</b>	
prednisolone	<b>Solution (eye drops) : 0.5%</b>
<b>20.4 Local anaesthetics</b>	
tetracaine	<b>Solution (eye drops): 0.5%</b> (hydrochloride).
<b>21. OXYTOCICS AND ANTIOXYTOCICS</b>	
<b>21.1 Oxytocics</b>	
ergometrine	<b>Injection:</b> 200 micrograms (hydrogen maleate) in 1mL ampoule.
oxytocin	<b>Injection:</b> 10 IU in 1mL ampoule.
misoprostol	<b>Tablet:</b> 200 micrograms <b>Vaginal tablet:</b> 25 micrograms.
<b>21.2 Antioxytocics (tocolytics)</b>	
nifedipine	<b>Immediate-release capsule:</b> 10 mg.
salbutamol	<b>Tablet:</b> 2mg, 4mg <b>Injection:</b> 50mcg (as sulphate)/mL in 5mL amp.
<b>22. MEDICINES FOR MENTAL AND BEHAVIOURAL DISORDERS</b>	
<b>22.1 Medicines used in psychotic disorders</b>	
chlorpromazine	<b>Injection:</b> 25 mg (hydrochloride)/ mL in 2-mL ampoule. <b>Oral liquid:</b> 25 mg (hydrochloride)/5 mL. <b>Tablet:</b> 100 mg (hydrochloride).
fluphenazine	in 1-mL ampoule.
haloperidol	<b>Injection:</b> 5 mg in 1mL ampoule. <b>Tablet:</b> 2mg; 5 mg.
risperidone	<b>Solid oral dosage form:</b> 0.25 mg to 6.0 mg.
clozapine	<b>Solid oral dosage form:</b> 25 to 200 mg. Haloperidol
biperiden hydrochloride*	<b>Tablet:</b> 2mg.

	<ul style="list-style-type: none"> <li>For management of extrapyramidal symptoms due to dopamine (D2) antagonists.</li> </ul>
<b>22.2 Medicines used in mood disorders</b>	
<b>22.2.1 Medicines used in depressive disorders</b>	
amitriptyline	<b>Tablet:</b> 25 mg; 75mg. (hydrochloride). * >16yrs.
fluoxetine	<b>Solid oral dosage form:</b> 20 mg (as hydrochloride). * >8 years.
<b>22.2.2 Medicines used in bipolar disorders</b>	
carbamazepine	<b>Tablet (scored):</b> 100 mg; 200 mg.
lithium carbonate	<b>Capsule or tablet:</b> 300 mg.
valproic acid(sodium valproate)	<b>Tablet (enteric-coated):</b> 200 mg; 500 mg (sodium valproate). <b>Oral Solution*:</b> Sodium Valproate 40mg/mL Oral Solution <i>*for paediatric patients as tablets are enteric coated and not recommended to be dissolved/crushed.</i>
<b>22.3 Medicines for anxiety disorders</b>	
diazepam	<b>Tablet (scored):</b> 5 mg.
<b>22.4 Medicines used for obsessive compulsive disorders</b>	
clomipramine	<b>Capsule:</b> 10 mg; 25 mg (hydrochloride).
<b>23. MEDICINES ACTING ON THE RESPIRATORY TRACT</b>	
<b>23.1 Anti-asthmatics and medicines for chronic obstructive pulmonary disease</b>	
beclomethasone	<b>Inhalation (aerosol):</b> 50 micrograms (dipropionate) per dose; 100 micrograms (dipropionate) per dose (as CFC free forms).
epinephrine (adrenaline)	<b>Injection:</b> 1 mg (as hydrochloride or hydrogen tartrate) in 1mL ampoule.
ipratropium bromide	<b>Inhalation (aerosol):</b> 20 micrograms/metered dose.
salbutamol	<b>Inhalation (aerosol):</b> 100 micrograms (as sulfate) per dose.

	<p><b>Injection:</b> 50 micrograms (as sulfate)/mL in 5mL ampoule.</p> <p><b>Respirator solution for use in nebulizers:</b> 5 mg (as sulfate)/mL.</p>
<b>24. SOLUTIONS CORRECTING WATER, ELECTROLYTE AND ACID-BASE DISTURBANCES</b>	
<b>24.1 Oral</b>	
oral rehydration salts (ORS)	<b>Powder for dilution:</b> WHO formula.
potassium chloride	<b>Powder for solution.</b>
<b>24.2 Parenteral</b>	
glucose	<b>Injectable solution:</b> 5%; 10% isotonic; 50% hypertonic.
glucose with sodium chloride	<p><b>Injectable solution:</b> 4% glucose, 0.18% sodium chloride (equivalent to Na<sup>+</sup> 30 mmol/L, Cl<sup>-</sup> 30 mmol/L).</p> <p><b>Injectable solution:</b> 5% glucose, 0.9% sodium chloride (equivalent to Na<sup>+</sup> 150 mmol/L and Cl<sup>-</sup> 150 mmol/L); 5% glucose, 0.45% sodium chloride (equivalent to Na<sup>+</sup> 75 mmol/L and Cl<sup>-</sup> 75 mmol/L)</p>
potassium chloride	<b>Injectable solution:</b> 11.2% in 20mL ampoule (equivalent to K <sup>+</sup> 1.5 mmol/mL, Cl <sup>-</sup> 1.5 mmol/mL).
sodium chloride	<b>Injectable solution:</b> 0.9% isotonic (equivalent to Na <sup>+</sup> 154 mmol/l)
sodium hydrogen carbonate (sodium bicarbonate)	<p><b>Injectable solution:</b> 1.4% isotonic (equivalent to Na<sup>+</sup> 167 mmol/L, HCO<sub>3</sub><sup>-</sup> 167 mmol/L).</p> <p><b>Solution:</b> 8.4% in 10- mL ampoule (equivalent to Na<sup>+</sup> 1000 mmol/L, HCO<sub>3</sub><sup>-</sup> 1000 mmol/L).</p>
sodium lactate compound solution (Ringer's lactate)	<b>Injectable solution:</b> B.P formulation.
<b>24.3 Miscellaneous</b>	
water for injection	2- mL; 5- mL; 10- mL ampoules.
<b>25. VITAMINS AND MINERALS</b>	
retinol	<p><b>Capsule:</b> 50 000 IU; 100 000 IU; 200 000 IU (as palmitate).</p> <p><b>Oral oily solution:</b> 100 000 IU (as palmitate)/ mL in multidose dispenser.</p> <p>Tablet (sugar-coated): 10 000 IU (as palmitate).</p>

	<b>Water-miscible injection:</b> 100 000 IU (as palmitate) in 2- mL ampoule.
□ nicotinamide	<b>Tablet:</b> 50 mg.
pyridoxine	<b>Tablet:</b> 25mg (hydrochloride).
ascorbic acid	<b>Tablet:</b> 50 mg.
cholecalciferol	<b>Oral liquid:</b> 400 IU/ mL. Solid oral dosage form: 400 IU; 1000 IU. * Ergocalciferol can be used as an alternative.
calcium	<b>Tablet:</b> 500 mg (elemental).
iodine	<b>Capsule:</b> 200 mg. <b>Iodized oil:</b> 1 mL (480 mg iodine); 0.5 mL (240 mg iodine) in ampoule (oral or injectable); 0.57 mL (308 mg iodine) in dispenser bottle
riboflavin	<b>Tablet:</b> 5 mg.
thiamine	<b>Tablet:</b> 50 mg (hydrochloride).
<b>26. SPECIFIC MEDICINES FOR NEONATAL CARE</b>	
<b>26.1 Medicines administered to the neonate</b>	
caffeine citrate	<b>Injection:</b> 20 mg/ mL (equivalent to 10 mg caffeine base/ mL). <b>Oral liquid:</b> 20 mg/ mL (equivalent to 10 mg caffeine base/ mL).
chlorhexidine	<b>Solution or gel:</b> 7.1% (digluconate) delivering 4% chlorhexidine (for umbilical cord care).
ibuprofen	<b>Solution for injection:</b> 5 mg/ mL.
prostaglandin E	<b>Solution for injection:</b> Prostaglandin E1: 0.5 mg/ mL in alcohol. Prostaglandin E 2: 1 mg/ mL.
surfactant	<b>Suspension for intratracheal instillation:</b> 25 mg/ mL or 80 mg/ mL.
<b>26.2 Medicines administered to the mother</b>	
dexamethasone	<b>Injection:</b> 4 mg/ mL dexamethasone phosphate (as disodium salt).
<b>27. EAR, NOSE AND THROAT MEDICINES</b>	
xylometazoline	<b>Nasal spray:</b> 0.05%. <i>*not in children less than 3 months.</i>

ciprofloxacin	<b>Topical:</b> 0.3% drops (as hydrochloride).
budesonide	<b>Nasal spray:</b> 100 micrograms per dose.
<b>28. MEDICINES FOR DISEASES OF JOINTS</b>	
<b>28.1 Medicines used to treat gout</b>	
allopurinol	<b>Tablet:</b> 100 mg.
diclofenac	<b>Injection:</b> 25mg/mL (as sodium) in 3mL ampoule. <b>Tablet:</b> 50mg, 100mg (as sodium).
indomethacin	<b>Capsules:</b> 25mg.
<b>28.2 Disease-modifying agents used in rheumatoid disorders (DMARDs)</b>	
methotrexate	<b>Tablet:</b> 2.5 mg (as sodium salt).
<b>29. ANTINEOPLASTICS AND IMMUNOSUPPRESSIVES</b>	
Medicines listed below should be used according to protocols for treatment of the diseases	
<b>29.1 Immunosuppressive medicines</b>	
<i>Complementary List</i>	
azathioprine	<b>Powder for injection:</b> 100 mg (as sodium salt) in vial. <b>Tablet (scored):</b> 50 mg.
ciclosporin	<b>Capsule:</b> 25 mg. <b>Concentrate for injection:</b> 50 mg/ mL in 1- mL ampoule for organ transplantation.
<b>29.2 Cytotoxic and adjuvant medicines</b>	
<i>Complementary List</i>	
all-trans retinoid acid (ATRA)	<b>Capsule:</b> 10 mg. Acute promyelocytic leukaemia.
allopurinol	<b>Tablet:</b> 100 mg; 300 mg.
asparaginase	<b>Powder for injection:</b> 10 000 IU in vial. Acute lymphoblastic leukaemia.
bendamustine	<b>Injection:</b> 45 mg/0.5 mL; 180 mg/2 mL. – Chronic lymphocytic leukaemia Follicular lymphoma .

bleomycin	<p><b>Powder for injection:</b> 15 mg (as sulfate) in vial.</p> <ul style="list-style-type: none"> <li>– Hodgkin lymphoma</li> <li>– Kaposi sarcoma</li> <li>– Ovarian germ cell tumour</li> </ul> <p>Testicular germ cell tumour</p>
calcium folinate	<p><b>Injection:</b> 3 mg/ mL in 10- mL ampoule.</p> <p><b>Tablet:</b> 15 mg.</p> <ul style="list-style-type: none"> <li>– Early stage colon cancer</li> <li>– Early stage rectal cancer</li> <li>– Gestational trophoblastic neoplasia</li> <li>– Metastatic colorectal cancer</li> <li>– Osteosarcoma</li> </ul> <p>Burkitt lymphoma.</p>
capecitabine	<p><b>Tablet:</b> 150 mg; 500 mg.</p> <ul style="list-style-type: none"> <li>– Early stage colon cancer</li> <li>– Early stage rectal cancer</li> <li>– Metastatic breast cancer</li> </ul> <p>Metastatic colorectal cancer</p>
carboplatin	<p><b>Injection:</b> 50 mg/5 mL; 150 mg/15 mL; 450 mg/45 mL; 600 mg/60 mL.</p> <ul style="list-style-type: none"> <li>– Early stage breast cancer</li> <li>– Epithelial ovarian cancer</li> <li>– Nasopharyngeal cancer</li> <li>– Non-small cell lung cancer</li> <li>– Osteosarcoma</li> </ul> <p>Retinoblastoma</p>
chlorambucil	<p><b>Tablet:</b> 2 mg.</p> <p>Chronic lymphocytic leukaemia.</p>
cisplatin	<p><b>Injection:</b> 50 mg/50 mL; 100 mg/100 mL.</p> <ul style="list-style-type: none"> <li>– Cervical cancer (as a radio-sensitizer)</li> <li>– Head and neck cancer (as a radio-sensitizer)</li> <li>– Nasopharyngeal cancer (as a radio-sensitizer)</li> <li>– Non-small cell lung cancer</li> <li>– Osteosarcoma</li> <li>– Ovarian germ cell tumour</li> <li>– Testicular germ cell tumour</li> </ul>

cyclophosphamide	<p><b>Powder for injection:</b> 500 mg in vial.</p> <p><b>Tablet:</b> 25 mg.</p> <ul style="list-style-type: none"> <li>– Chronic lymphocytic leukaemia</li> <li>– Diffuse large B-cell lymphoma</li> <li>– Early stage breast cancer</li> <li>– Gestational trophoblastic neoplasia</li> <li>– Hodgkin lymphoma</li> <li>– Follicular lymphoma</li> <li>– Rhabdomyosarcoma</li> <li>– Ewing sarcoma</li> <li>– Acute lymphoblastic leukaemia</li> <li>– Burkitt lymphoma</li> </ul> <p>Metastatic breast cancer.</p>
cytarabine	<p><b>Powder for injection:</b> 100 mg in vial.</p> <ul style="list-style-type: none"> <li>– Acute myelogenous leukaemia</li> <li>– Acute lymphoblastic leukaemia</li> <li>– Acute promyelocytic leukaemia</li> </ul> <p>Burkitt lymphoma.</p>
dacarbazine	<p><b>Powder for injection:</b> 100 mg in vial.</p> <p>Hodgkin lymphoma</p>
dactinomycin	<p><b>Powder for injection:</b> 500 micrograms in vial.</p> <ul style="list-style-type: none"> <li>– Gestational trophoblastic neoplasia</li> <li>– Rhabdomyosarcoma</li> </ul> <p>Wilms tumour</p>
dasatinib	<p><b>Tablet:</b> 20 mg; 50 mg; 70 mg; 80 mg; 100 mg; 140 mg.</p> <p>Imatinib-resistant chronic myeloid leukaemia</p>
daunorubicin	<p><b>Powder for injection:</b> 50 mg (hydrochloride) in vial.</p> <ul style="list-style-type: none"> <li>– Acute lymphoblastic leukaemia</li> <li>– Acute myelogenous leukaemia</li> <li>– Acute promyelocytic leukaemia</li> </ul>
docetaxel	<p><b>Injection:</b> 20 mg/ mL; 40 mg/ mL.</p> <ul style="list-style-type: none"> <li>– Early stage breast cancer</li> <li>– Metastatic breast cancer</li> </ul> <p>Metastatic prostate cancer</p>

doxorubicin	<p><b>Powder for injection:</b> 10 mg; 50 mg (hydrochloride) in vial.</p> <ul style="list-style-type: none"> <li>– Diffuse large B-cell lymphoma</li> <li>– Early stage breast cancer</li> <li>– Hodgkin lymphoma</li> <li>– Kaposi sarcoma</li> <li>– Follicular lymphoma</li> <li>– Metastatic breast cancer</li> <li>– Osteosarcoma</li> <li>– Ewing sarcoma</li> <li>– Acute lymphoblastic leukaemia</li> <li>– Wilms tumour</li> </ul> <p>Burkitt lymphoma</p>
etoposide	<p><b>Capsule:</b> 100 mg.</p> <p><b>Injection:</b> 20 mg/ mL in 5- mL ampoule.</p> <ul style="list-style-type: none"> <li>– Testicular germ cell tumour</li> <li>– Gestational trophoblastic neoplasia</li> <li>– Hodgkin lymphoma</li> <li>– Non-small cell lung cancer</li> <li>– Ovarian germ cell tumour</li> <li>– Retinoblastoma</li> <li>– Ewing sarcoma</li> <li>– Acute lymphoblastic leukaemia</li> </ul> <p>Burkitt lymphoma</p>
filgrastim	<p><b>Injection:</b> 120 micrograms/0.2 mL; 300 micrograms/0.5 mL; 480 micrograms/0.8 mL in pre-filled syringe 300 micrograms/mL in 1- mL vial, 480 mg/1.6 mL in 1.6- mL vial.</p> <ul style="list-style-type: none"> <li>– Primary prophylaxis in patients at high risk for developing febrile neutropenia associated with myelotoxic chemotherapy.</li> <li>– Secondary prophylaxis for patients who have experienced neutropenia following prior myelotoxic chemotherapy</li> </ul> <p>To facilitate administration of dose dense chemotherapy regimens</p>
fludarabine	<p><b>Powder for injection:</b> 50 mg (phosphate) in vial.</p> <p><b>Tablet:</b> 10 mg</p> <p>Chronic lymphocytic leukaemia.</p>
fluorouracil	<p><b>Injection:</b> 50 mg/ mL in 5- mL ampoule.</p>

	<ul style="list-style-type: none"> <li>– Early stage breast cancer</li> <li>– Early stage colon cancer</li> <li>– Early stage rectal cancer</li> <li>– Metastatic colorectal cancer</li> </ul> <p>Nasopharyngeal cancer.</p>
gemcitabine	<p><b>Powder for injection:</b> 200 mg in vial, 1 g in vial.</p> <ul style="list-style-type: none"> <li>– Epithelial ovarian cancer</li> </ul> <p>Non-small cell lung cancer</p>
hydroxycarbamide	<p><b>Solid oral dosage form:</b> 200 mg; 250 mg; 300 mg; 400 mg; 500 mg; 1 g.</p> <p>Chronic myeloid leukaemia.</p>
ifosfamide	<p><b>Powder for injection:</b> 500 mg vial; 1-g vial; 2-g vial.</p> <ul style="list-style-type: none"> <li>– Testicular germ cell tumour</li> <li>– Ovarian germ cell tumour</li> <li>– Osteosarcoma</li> <li>– Rhabdomyosarcoma</li> </ul> <p>Ewing sarcoma</p>
imatinib	<p><b>Tablet:</b> 100 mg; 400 mg.</p> <ul style="list-style-type: none"> <li>– Chronic myeloid leukaemia</li> </ul> <p>Gastrointestinal stromal tumour</p>
irinotecan	<p><b>Injection:</b> 40 mg/2 mL in 2- mL vial; 100 mg/5 mL in 5- mL vial; 500 mg/25 mL in 25- mL vial.</p> <p>Metastatic colorectal cancer.</p>
mercaptopurine	<p><b>Tablet:</b> 50 mg.</p> <ul style="list-style-type: none"> <li>– Acute lymphoblastic leukaemia</li> </ul> <p>Acute promyelocytic leukaemia.</p>
mesna	<p><b>Injection:</b> 100 mg/ mL in 4- mL and 10- mL ampoules.</p> <p><b>Tablet:</b> 400 mg; 600 mg.</p> <ul style="list-style-type: none"> <li>– Testicular germ cell tumour</li> <li>– Ovarian germ cell tumour</li> <li>– Osteosarcoma</li> <li>– Rhabdomyosarcoma</li> </ul> <p>Ewing sarcoma.</p>

methotrexate	<p><b>Powder for injection:</b> 50 mg (as sodium salt) in vial.</p> <p><b>Tablet:</b> 2.5 mg (as sodium salt).</p> <ul style="list-style-type: none"> <li>– Early stage breast cancer</li> <li>– Gestational trophoblastic neoplasia</li> <li>– Osteosarcoma</li> <li>– Acute lymphoblastic leukaemia</li> </ul> <p>Acute promyelocytic leukaemia</p>
nilotinib	<p><b>Capsule:</b> 150 mg; 200 mg.</p> <p>Imatinib-resistant chronic myeloid leukaemia</p>
oxaliplatin	<p><b>Injection:</b> 50 mg/10 mL in 10- mL vial; 100 mg/20 mL in 20- mL vial; 200 mg/40 mL in 40- mL vial.</p> <p><b>Powder for injection:</b> 50 mg, 100 mg in vial.</p> <ul style="list-style-type: none"> <li>– Early stage colon cancer</li> </ul> <p>Metastatic colorectal cancer</p>
paclitaxel	<p><b>Powder for injection:</b> 6 mg/ mL.</p> <ul style="list-style-type: none"> <li>– Epithelial ovarian cancer</li> <li>– Early stage breast cancer</li> <li>– Metastatic breast cancer</li> <li>– Kaposi sarcoma</li> <li>– Nasopharyngeal cancer</li> <li>– Non-small cell lung cancer</li> </ul> <p>Ovarian germ cell tumour</p>
procarbazine	<p><b>Capsule:</b> 50 mg (as hydrochloride).</p>
rituximab	<p><b>Injection:</b> 100 mg/10 mL in 10- mL vial; 500 mg/50 mL in 50- mL vial.</p> <ul style="list-style-type: none"> <li>– Diffuse large B-cell lymphoma</li> <li>– Chronic lymphocytic leukaemia</li> </ul> <p>Follicular lymphoma.</p>
tioguanine	<p><b>Solid oral dosage form:</b> 40 mg.</p> <p>Acute lymphoblastic leukaemia.</p>
trastuzumab	<p><b>Powder for injection:</b> 60 mg; 150 mg; 440 mg in vial</p> <ul style="list-style-type: none"> <li>– Early stage HER2 positive breast cancer</li> </ul> <p>Metastatic HER2 positive breast cancer.</p>
vinblastine	<p><b>Powder for injection:</b> 10 mg (sulfate) in vial.</p>

	<ul style="list-style-type: none"> <li>– Hodgkin lymphoma</li> <li>– Kaposi sarcoma.</li> <li>– Testicular germ cell tumour</li> </ul> <p>Ovarian germ cell tumour</p>
vincristine	<p><b>Powder for injection:</b> 1 mg; 5 mg (sulfate) in vial.</p> <ul style="list-style-type: none"> <li>– Diffuse large B-cell lymphoma</li> <li>– Gestational trophoblastic neoplasia</li> <li>– Hodgkin lymphoma</li> <li>– Kaposi sarcoma</li> <li>– Follicular lymphoma</li> <li>– Retinoblastoma</li> <li>– Rhabdomyosarcoma</li> <li>– Ewing sarcoma</li> <li>– Acute lymphoblastic leukaemia</li> <li>– Wilms tumour</li> </ul> <p>Burkitt lymphoma.</p>
vinorelbine	<p><b>Injection:</b> 10 mg/mL in 1- mL vial; 50 mg/5 mL in 5- mL vial.</p> <ul style="list-style-type: none"> <li>– Non-small cell lung cancer</li> </ul> <p>Metastatic breast cancer</p>
zoledronic acid	<p><b>Concentrate solution for infusion:</b> 4 mg/5 mL in 5- mL vial.</p> <p><b>Solution for infusion:</b> 4 mg/100 mL in 100- mL bottle.</p> <p>Malignancy-related bone disease</p>
<b>29.3 HORMONES AND ANTIHORMONES</b>	
<i>Complementary List</i>	
anastrozole	<p><b>Tablet:</b> 1 mg.</p> <ul style="list-style-type: none"> <li>– Early stage breast cancer</li> </ul> <p>Metastatic breast cancer.</p>
bicalutamide	<p><b>Tablet:</b> 50 mg.</p> <p>Metastatic prostate cancer.</p>
dexamethasone	<p><b>Injection:</b> 4 mg/ mL in 1- mL ampoule (as disodium phosphate salt).</p> <p><b>Oral liquid:</b> 2 mg/5 mL .</p> <p>Acute lymphoblastic leukaemia.</p>

leuprorelin	<p><b>Injection:</b> 3.75 mg vials of leuprorelin acetate (equivalent to 3.57 mg leuprorelin free base).</p> <p>1 ml of reconstituted suspension contains 1.875 mg of leuprorelin acetate.</p> <ul style="list-style-type: none"> <li>– Early stage breast cancer</li> <li>– Metastatic prostate cancer</li> </ul>
hydrocortisone	<p><b>Powder for injection:</b> 100 mg (as sodium succinate) in vial.</p> <p>Acute lymphoblastic leukaemia.</p>
methylprednisolone	<p><b>Injection:</b> 40 mg/ mL (as sodium succinate) in 1- mL single-dose vial and 5- mL multi-dose vials; 80 mg/ mL (as sodium succinate) in 1- mL single-dose vial.</p> <p>Acute lymphoblastic leukemia.</p>
prednisolone	<p><b>Oral liquid:</b> 5 mg/ mL [c].</p> <p><b>Tablet:</b> 5 mg; 25 mg.</p> <ul style="list-style-type: none"> <li>– Chronic lymphocytic leukaemia</li> <li>– Diffuse large B-cell lymphoma</li> <li>– Hodgkin lymphoma</li> <li>– Follicular lymphoma</li> <li>– Acute lymphoblastic leukaemia</li> </ul> <p>Burkitt lymphoma</p>
tamoxifen	<p><b>Tablet:</b> 10 mg; 20 mg (as citrate).</p> <ul style="list-style-type: none"> <li>– Early stage breast cancer</li> </ul> <p>Metastatic breast cancer</p>



REPORT OF STUDY FINDINGS, JULY AND SEPTEMBER 2020

# MEDICAL REGION OF ORIGIN INFORMATION FOR SOMALIA: MOGADISHU

Client: Danish Immigration Services

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# 1 INTRODUCTION

This report presents an analysis of the pilot data collection carried out in July and September 2020 in six health facilities in Mogadishu for the Danish Immigration Services (DIS) Medical Country of Origin Information from Somalia. The facilities have been selected to represent both the private and public health services available in the city, and within public facilities, some run by NGOs and others run by public authorities. The facilities are also differentiated by specialisation and by location within the city, to reflect how health services differ from neighbourhood to neighbourhood.

At each facility visited, our team member interviewed a health professional using the survey designed in SurveyMonkey, which can be used by a mobile device. Our team member also spent some time observing the entrance and waiting area of each facility, in order to gauge the profile of the people visiting the facility. Below is the summary of these findings. The full dataset provides the detailed responses collected at each facility.

# 2 ANALYSIS OF RESPONSES

## 2.1 DESCRIPTION OF THE HEALTH FACILITIES SURVEYED

The six health facilities in Mogadishu surveyed are:

### **WARDI Community Hospital**

Community hospital run by a local NGO (WARDI) and specialises in Maternal and Child Health. Mostly dispenses medicines for children and mothers, but does administer other medication for adults or internal medicines in limited circumstances. The OPD services of the Hospital are divided into an adult's section and under five children section. Men can visit the facility and see a general practitioner and can get free medications if it is available at the pharmacy.

The Hospital has the following departments: OPD – under five and over five; ANC; Delivery; Stabilisation Centre (SC); Paediatric; Laboratory; Pharmacy; Expanded Programme on Immunisation (EPI); the Operation Theatre; Outpatient Therapeutic Programme (OTP); Targeted Supplementary Feeding Programme (TSFP); Maternal and Child Health and Nutrition (MCHN); Inpatient sections with 50 beds; Regional cold chain – used for storing vaccines before its distributed to other regions across the country (Supported by WHO).

The Hospital Manager can be contacted for general questions, but the Head of the Paediatrics department provided all the data included in the Excel sheets with the help of the pharmacy manager and staff from other departments.

Treats patients free of charge and provides medicines for free. An NGO manages the Hospital under the supervision and authorisation of the Federal Ministry of Health.

**Benadir Hospital**

A public hospital run by the Federal Ministry of Health and specialises on mother and childcare. The Hospital also hosts one of the two HIV/AIDS centres in Mogadishu. The Hospital was built in 1977 by the Chinese government and remained the main referral hospital in the country for maternal and child health since its establishment.

During the civil war, the hospital was one of three main hospitals in Mogadishu that treat the war-wounded until it was restructured and rehabilitated in 2019. As a result, the Hospital was downsized from 700 beds to 500 operational beds for the maternity and child wards after it ceased all other services, including surgeries and operations concerning the treatment of war-wounded patients.

There is a Haemodialysis centre built by the Saudi Government in 2012 and equipped with 25 machines, but it was neither opened nor became operational since then. The Hospital now treats patients free of charge and provides medicines for free. Managed and falls under the responsibility of the Federal Ministry of Health.

Banadir Hospital has paediatric, maternity and immunisation departments in addition to the TB and HIV centres. The hospital specialises on mother and child care, and most doctors in the hospital are general practitioners, paediatricians, obstetrics and gynaecology doctors.

Men are treated only in the TB and HIV centres (which are integral parts of the Hospital, but the core services are mother and child care). The reason for visiting the Hospital was to confirm availability of HIV medications.

The HIV centre director of Benadir Hospital was interviewed.

**Mogadishu Somali  
Recep Tayyip Erdogan  
Training and Research  
Hospital**

Co-managed by the Somali and Turkish authorities. It is a public hospital according to officials from the Federal Ministry of Health. However, it can be considered as semi-public because patients have to pay subsidised fees for their treatment and medications, unlike other public hospitals in Somalia that do not charge any fees. The hospital is the biggest hospital in the country. Somali and Turkish doctors provide treatment services as well as teaching, training and research activities.

The hospital was constructed in the 1960's and closed down during the civil war. The Somali Government reached an agreement with the Turkish Government to rebuild the hospital from scratch and it was officially reopened in January 2015. The hospital is now the biggest referral hospital in the country, a research and training facility with 205 beds. When comparing the price and quality of services in private hospitals to Erdogan Hospital, it provides higher-quality services for cheaper prices.

The hospital have general surgery, thoracic surgery, neurosurgery, paediatric surgery, cardiovascular surgery, orthopaedic and traumatology, obstetrics and gynaecology, urology, and paediatric inpatient services and clinics. The hospital has also infectious diseases, cardiology, neurology, ophthalmology, ear, nose and throat diseases (ENT), and pulmonology clinics. Although there is no inpatient psychiatric services, the Hospital also

	<p>specialises in psychiatric services.</p> <p>The intensive care units include the general intensive care, new born intensive care and the emergency intensive care units. The hospital has also microbiology, biochemistry and pathology labs along with magnetic resonance (MR), computed tomography (CT), ultrasonography and colour doppler, mammography and digital direct graph imaging services.</p> <p>The hospital have emergency section, operating rooms, haemodialysis, oral and dental health polyclinic, audiometry, pharmacy and blood centre as well as a residence, school of nursing building, a Mosque and a parking lot with a capacity of 400 cars.</p> <p>The Deputy Manager of Mogadishu Somali Turkish Recep Tayyip Erdogan Education and Research Hospital and the highest-ranking Somali official at the hospital appointed by the Federal Ministry of Health were interviewed. Other doctors and heads of different departments assisted the Manager to provide relevant information.</p>
<p><b>Ladnan Hospital</b></p>	<p>Purely private. Patients have to cater to their expenses fully. Poor patients can visit the hospital on Thursdays if they cannot afford to pay the consultation fees as doctor consultations are free for the public on every Thursday.</p> <p>The hospital specialises general medicine, obstetrics and gynaecology, general surgery, paediatrics, ENT and preventive health check-ups. The hospital is equipped with an operation theatre and has the facilities for conducting laparoscopic and open surgery, has a total of 25 beds and a pharmacy.</p> <p>The laboratory is equipped with fully automated biochemistry, and haematology analysers, and chemiluminescence immunoassay. Video endoscopes, and digital x-ray, Doppler ultrasound with echocardiography and ECG and provides 24-hour Holter monitoring services are also available in the hospital.</p> <p>The lead physician and founder of the hospital was interviewed. The hospital was established in 2016 as a private clinic and expanded later to provide more services.</p>
<p><b>SOMAL Pharma Pharmacy</b></p>	<p>The pharmacy serves as the retail outlet of a drug importing company that distribute medications to pharmacies located in Mogadishu and nearby regions. SOMAL Pharma focuses on only selling medicines and does not provide any treatment, laboratory and imaging services. The company also sell medicines from other drug importing companies in order to meet demands from its clients.</p> <p>The manager of the pharmacy was interviewed.</p>
<p><b>Forlanini Hospital</b></p>	<p>The public facility was the biggest mental health facility in the country before the collapse of the Central Government in Somalia in 1991. The hospital was built in 1932 by the Italian Government as a referral hospital for tropical disease, diarrhoea, hepatitis, leprosy, TB, mother and child and</p>

mental illnesses.

Currently, it consists of three specialist centres for treating MDR TB, Mental Health and Nutrition. ACF supports the Nutrition centre, and Muslim Aid used to support salaries for the mental health and TB centre staff, but it ended in March 2020. World Vision provides now incentives for the staff to ensure the continuation of the mental and TB centre services. WHO provides drugs to both sections of the hospital. The Italian Army units in Mogadishu supported the hospital by installing mini solar power station and construction part of the inpatient ward. They also deliver equipment once a year.

There are 100 beds in the inpatient ward of the hospital's mental health section. The total staff of the Mental Health Centre is 32. There is a Specialist Psychiatric Doctor, a Psychologist, a General Practitioner, two nurses with degrees and two experienced nurses, a pharmacist, and a lab technician. The rest are support staff including eight stretchers, guards, cleaners, laundromats, cooks, plumber, electricians, and cooks. There is little training and education opportunities offered to the staff working with psychiatric patients. The Federal Ministry of Health organise workshops once a year for them.

Although the outpatient service is open for both and female patients, women are not admitted in the inpatient ward of the hospital as patients. The hospital only accepts women as patients in the outpatient department. Before admitting patients for the inpatient ward, they are referred to other hospitals in the city, mostly to public hospitals, to get the required treatment if they have other clinical illnesses.

The Director of the hospital was interviewed.



*Figure 1: Map of Mogadishu and the six health facilities surveyed: WARDI Community Hospital, Benadir Hospital, Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital, Ladnan Hospital, SOMAL Pharma Pharmacy and Forlanini Hospital.*

## 2.2 OBSERVATIONS

### General remarks

The overall safety situation in Mogadishu is considered a critical threat location. Kidnapping, bombings, indirect fire attacks, assassinations, armed robbery (especially of mobile phones at night), carjacking, and illegal roadblocks by armed individuals in uniforms occur in Mogadishu<sup>1</sup>. There is a constant threat of terrorist attacks by al-Shabaab<sup>2</sup>, which happen indiscriminately, including in crowded places, high-profile events, events involving government officials and in places visited by foreigners<sup>3</sup>. Due to these

<sup>1</sup> U.S. Department of State, Overseas Security Advisory Council, Somalia 2020 Crime & Safety Report <https://www.osac.gov/Country/Somalia/Content/Detail/Report/4a1550e6-cc18-40d9-b587-18946f742968>

<sup>2</sup> ACCORD – Austrian Centre for Country of Origin and Asylum Research and Documentation, Security Situation in Somalia, 28 August 2020

<https://www.ecoi.net/en/countries/somalia/featured-topics/security-situation/#Toc520443451>

<sup>3</sup> UK Foreign travel advice, Somalia

reasons, movement at night and overall safety of Mogadishu is precarious.

Average users in Somalia prefer visiting a pharmacy rather than a hospital for several reasons, including the limited number of hospitals in areas outside urban centres. Nevertheless, residents of major cities like Mogadishu nowadays increasingly prefer visiting hospitals unlike the past (around ten years ago), when visiting private hospitals/clinics was expensive, the number of doctors limited, and security was a concern, especially movement during the night. However, nowadays people prefer to visit a doctor due to increased number and available options of both public and private health facilities.

When it comes to accessing hospitals at night, only emergency services in limited private and public hospitals provide emergency services during night time, and few pharmacies are open until 10 pm.

Information regarding availability and access to medications is to a great extent reliable, because even if certain medication is not available on the market, there is a special order mechanism that pharmacies/hospitals use to provide such medications for patients who can afford to pay the price. Availability of specialist services, however, is dependent on mainly foreign doctors, mainly from Turkey, Syria, Egypt and Sudan, who usually visit the country for short periods and then return to their countries after their visit period ends - e.g. histologists and neurosurgeons.

#### **WARDI Community Hospital**

People who visit the facility are mostly impoverished, and low-income members of the community, IDPs living near the facility are also regular visitors of the facility. Patients from remote areas like Afgoye, especially women with birth complications, reach the hospital by road. The emergency section of the facility is also open 24h per day. There is no discrimination of people because the hospital serves the most vulnerable segments of Mogadishu residents (including many people from the Bantu and those from minority clans), and all patients are treated equally.

#### **Benadir Hospital**

There are police guards at the entrance of the hospital, and all people entering the facility are searched. The overall security situation in the area is excellent. People from all neighbourhoods of Mogadishu and nearby towns and cities travel to the hospital by road. Most of the patients in the hospital are children and women from poor households, and they prefer Benadir hospital due to free health services and medications. People living with HIV are also treated free of charge. There is no discrimination of patients, and all people are welcome in the hospital. People with better living conditions usually do not prefer coming to the hospital due to the perceived level of services. However, the hospital still provides treatment of meningitis for children which is uncommon to be found in other hospitals.

#### **Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital**

People from all over the country visit the hospital by road and air. Majority of the Diaspora in Mogadishu also rely on this hospital for treatment. Women and children are the majority of patients in the hospital. There is no clan discrimination, and people are treated equally because patients or their relatives attend the hospital at 6 am to pay the consultation fees and book for doctors. There are long queues in the morning, and men are the majority of people who comes early in the morning to assist their relatives in getting a ticket.

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<https://www.gov.uk/foreign-travel-advice/somalia>

**Ladnan Hospital**

The entrance is open for all, and security guards search clients when entering the facility. People in the city can access outpatient services by road, and it is open only during day time. Clients in the facility are mixed, and most look like well-off people from and most clients in the waiting area are women, children and older people. The nurses welcome all people, and there were no signs of people treated differently.

**SOMAL Pharma Pharmacy**

SOMAL Pharmacy is accessible and open to individual clients and representatives of pharmacies. Clients access the facility by road, and the facility is open only during the daytime. The prices of medications are competitively less compared to other retail only pharmacies.

**Forlanini Hospital**

Forlanini Hospital occupies a huge compound in North Mogadishu, close to the headquarters of NISA and the main centre for the national police. Most parts of the hospital are now destroyed and were not rehabilitated since the civil war ended in the country. There are three different sections in the Hospital now that are located in separate locations within the compound. The public access hospital by foot or road and people with mental illnesses from southern parts of the country access Mogadishu by air.

Specific to Forlanini Hospital is the question of the potential use of rough treatments on mentally ill patients. There was no sign of any use of rough treatment in the hospital. As per the interviewed doctor, they use only sedatives and medications to treat patients. She also noted that the condition of patients improves immediately as soon as their treatment starts. She further noted that discharging patients depends on the severity of their cases and how they respond to medicines. The hospital has no written policy on the use of physical force with mentally ill patients.

**2.3 REGISTRATION OF MEDICATION**

<p>What is the procedure(s) for registration of medication?</p>	<p>All 5 hospitals and the pharmacy stated there are no procedures for registration of medication in the country. WARDI Community Hospital added that they register medication manually.</p> <p>In an interview, with the Head of the Child Health section of the Medical Services Department of the Federal Ministry of Health, , he confirmed that there are no procedures for registering medications in the country.</p> <p>He provided the draft legislation (Somali version, see Annex 4) for medications and establishment of the National Medicine Regulatory Authority, which is now passed by the cabinet and tabled in the House of the People of the Federal Parliament.</p>
<p>Are there quality controls done on registered medication?</p>	<p>4 out of 5 hospitals, as well as the pharmacy, stated there are no quality controls done on registered medication by the government. SOMAL Pharmacy stated that companies that import drugs must possess a valid licence from the Ministry of Commerce. Benadir Hospital stated that as they receive all medication from</p>

	<p>WHO, they go through WHO's quality control standards.</p> <p>The interviewed official from the Federal Ministry of Health (FMoH) also confirmed that there are no quality controls done in the country due to lack of the regulatory body.</p>
Is medication illegal, if it is not registered?	<p>3 of the hospitals and the pharmacy stated that as there is no procedure to confirm the legality of drugs, unregistered medications are legal. However, 3 of the 5 hospitals said they share their inventory lists with the FMoH. Companies must seek special authorisation from the Ministry to import opioid drugs. WARDI Hospital receives its medication from UNICEF, so they are all legal. Importing drugs into Somalia only requires a business license, but there is no registration or quality control process.</p> <p>The interviewed official from the Federal Ministry of Health explained that the pharmaceutical unit of the Ministry grants licences to private health facilities, but has not yet started issuing licences to pharmacies and even medicine import companies due to capacity gaps and insufficient legal frameworks. The unit also gives special certificates to import opioid medicines in the country.</p>
Do you have a list of approved and/or essential drugs, and if so, who are responsible for the regulation of it?	<p>There is no list of approved medication from the FMoH. Depending on the hospital's specialisation, guidelines from WHO, MSF, UNICEF or American resources are used. Erdogan hospital imports medication from Turkey, so follows Turkish standards.</p> <p>The interviewed officials from the Federal Ministry of Health provided the recently (December 2019) developed Somali Essential Medicines List, which was not widely circulated due to disruptions caused by the COVID-19 pandemic early this year.</p> <p>He also provided three other national guidelines that are used by the health facilities and aligned to the Essential Package of Health Services in Somalia.</p> <p>The contact person at SOMAL Pharmacy also stated that there is no list of approved or essential drugs to be followed available in the pharmacy. The mother company that owns the pharmacy respond to the market demands and supply medicines according to the needs in the market.</p>
How often is it updated?	As often as WHO, MSF etc. updates them – usually every other year. The list be found on their websites.
Can a contact to a person (email / phone) employed at the Federal Ministry of Health be established?	Contact Department of Medical Services. No specific contact person was identified.

## 2.4 MEDICATION

Below is a comparative overview of the medications available at each of the six health facilities. “Available” means the medication is available at present time in the facility; “N/A”, that the medication is not available; “Partly available”, that the medication is not available at present time, but can be ordered within a given time frame, or that only some of a listed set of medications are available at present time.

	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	SOMAL Pharma Pharmacy	Forlanini Hospital
Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	N/A	Partly available: only human insulin is available	Available	Partly available: expected to arrive in 1 week	Available	N/A
Insulin injections: Intermediate-acting: Insulin isophane	N/A	N/A	Partly available: will arrive within 3 to 4 weeks	Partly available: expected to arrive in 1 week	Available	N/A
Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	N/A	N/A	Available	Partly available: expected to arrive in 1 week	N/A	N/A
Oral hypoglycaemic agents/blood glucose lowering medication: Metformin	N/A	Available	Partly available: expected to arrive in 2 weeks (deliveries delayed due to COVID-19 movement restrictions)	Available	Available	Available

	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	SOMAL Pharma Pharmacy	Forlanini Hospital
Oral hypoglycaemic agents/blood glucose lowering medication: Gliclazide	N/A	N/A	Partly available: will arrive within 3 to 4 weeks	Available	Available	N/A
Anti-psychotic medication: Olanzapine	N/A	N/A	Available	Available	Available	Available
Anti-psychotic medication: Chlorpromazine	N/A	N/A	Partly available: will arrive within 3 to 4 weeks	Available	Available	Available
Anti-psychotic medication: Haloperidol	Available	Available	Available	Available	N/A	Available
Anti-psychotic medication: Risperidone	N/A	N/A	Available	Available	Available	Available
Anti-psychotic medication: Clozapine	N/A	N/A	Partly available: will arrive within 3 to 4 weeks	Available	N/A	N/A
Anti-psychotic medication: Aripiprazole depot injection	N/A	N/A	N/A	N/A	N/A	N/A
Antidepressant medication: Amitriptyline	N/A	Available	Available	Available	Available	Available
Antidepressant medication: Sertraline	N/A	N/A	Available	Available	N/A	N/A

	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	SOMAL Pharma Pharmacy	Forlanini Hospital
Antidepressant medication: Fluoxetine	N/A	Available	Partly available: will arrive within 3 to 4 weeks	Available	Available	Available
Post-traumatic stress disorder/sedative medication: Diazepam	Available	Available	Available	Available	Available	Available
Post-traumatic stress disorder/sedative medication: Lorazepam	N/A	N/A	Available	Available	Available	Available
Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Prednisolone tablets are used as immunosuppressive medication	Only available immunosuppressive medication is prednisolone tablets	N/A	N/A	N/A	N/A
Medicines for pain management: Acetylsalicylic acid	Partly available: expected to arrive in 2 weeks (deliveries delayed due to COVID-19 movement restrictions)	Available	Partly available: will arrive within 3 to 4 weeks	Available	Available	Available
Medicines for pain management: Ibuprofen	Available	Available	Available	Available	Available	Available
Medicines for pain management: Paracetamol	Available	Available	Available	Available	Available	Available

	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	SOMAL Pharma Pharmacy	Forlanini Hospital
Medicines for pain management: Morphine	N/A	N/A	Available	Available	Available	N/A
Cardiac complications/heart failure: Digoxin	N/A	Available	Available	Available	Available	N/A
Cardiac complications/heart failure: Furosemide	Available	Available	Available	Available	Available	N/A
Cardiac complications/heart failure: Spironolactone	N/A	N/A	Available	Available	Available	N/A
Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Partly available: expected to arrive in 2 weeks	Available	Partly available: will arrive within 3 to 4 weeks	Available	Available	Available
Antithrombotic medicines/blood thinning medicine: Clopidogrel	N/A	N/A	Available	Available	Available	N/A
Antithrombotic medicines/blood thinning medicine: Warfarin	N/A	N/A	Partly available: will arrive within 3 to 4 weeks	Available	Available	N/A
Anti-hypertensive medication/medication	N/A	Available	Available	Available	Available	N/A

for lowering high blood pressure: Amlodipine						
	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	SOMAL Pharma Pharmacy	Forlanini Hospital
Anti-hypertensive medication/medication for lowering high blood pressure: Bisoprolol	N/A	Available	Partly available: will arrive within 3 to 4 weeks	Available	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Enalapril	N/A	Available	Partly available: will arrive within 3 to 4 weeks	Available	Available	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	N/A	Partly available: it will take to arrive from 1 to 2 months	Partly available: will arrive within 3 to 4 weeks	Available	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	N/A	Partly available: it will take to arrive from 1 to 2 months	Partly available: will arrive within 3 to 4 weeks	Available	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Losartan	N/A	Partly available: it will take to arrive from 1 to 2 months	Partly available: will arrive within 3 to 4 weeks	Available	Available	N/A
Anti-hypertensive medication/medication	N/A	Partly available: it will take to arrive	Available	Available	Available	N/A

for lowering high blood pressure: Losartan + Hydrochlorothiazide		from 1 to 2 months				
	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	SOMAL Pharma Pharmacy	Forlanini Hospital
Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	N/A	N/A	Partly available: will arrive within 3 to 4 weeks	N/A	Available	N/A
Antiretrovirals/HIV medicine: Dolutegravir	N/A	Available	N/A	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Efavirenz	N/A	Available	N/A	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Nevirapine	N/A	N/A	N/A	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Ritonavir	N/A	N/A	N/A	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Darunavir	N/A	N/A	N/A	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Atazanavir	N/A	Partly available: it will take from 3 to 4 months to arrive because it depends on donations and supplies from partner organisations.	N/A	N/A	N/A	N/A

	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	SOMAL Pharma Pharmacy	Forlanini Hospital
Antiretrovirals/HIV medicine: Atazanavir + ritonavir	N/A	Available	N/A	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	N/A	N/A	N/A	N/A	N/A	N/A
Combination tablets: Abacavir + lamivudine	N/A	Available	N/A	N/A	N/A	N/A
Combination tablets: Dolutegravir + lamivudine + tenofovir	N/A	Available	N/A	N/A	N/A	N/A
Combination tablets: Efavirenz + emtricitabine + tenofovir	N/A	Available	N/A	N/A	N/A	N/A
Combination tablets: Efavirenz + lamivudine + tenofovir	N/A	N/A	N/A	N/A	N/A	N/A
Combination tablets: Emtricitabine + tenofovir	N/A	N/A	N/A	N/A	N/A	N/A
Combination tablets: Lamivudine + nevirapine + zidovudine	N/A	Available	N/A	N/A	N/A	N/A

	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	SOMAL Pharma Pharmacy	Forlanini Hospital
Combination tablets: Lamivudine + zidovudine	N/A	Available	N/A	N/A	N/A	N/A
Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	N/A	Partly available: only prevention medication available is Isoniazid tablets	N/A	N/A	N/A	N/A
Medicine for dialysis: Intraperitoneal dialysis solution	N/A	N/A	N/A	N/A	N/A	N/A
Medicine for inhalation: Formoterol	N/A	N/A	Available	Available	N/A	N/A
Medicine for inhalation: Budesonide	N/A	N/A	Partly available: will arrive within 3 to 4 weeks	Available	N/A	N/A
Medicine for inhalation: Fluticasone propionate	N/A	N/A	Partly available: will arrive within 3 to 4 weeks	Available	N/A	N/A
Tablets: Prednisolone	Available	Available	Partly available: will arrive within 3 to 4 weeks	Available	Available	Available
Cancer: Which chemotherapy	N/A	N/A	N/A	Sorafenib, Casodex	N/A	N/A

medications are available?				(Bicalutamide), Hydroxyurea, and Tamoxifen		
	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	SOMAL Pharma Pharmacy	Forlanini Hospital
Is immunotherapy available and if so, which ones?	N/A	N/A	N/A	N/A	N/A	N/A

For a detailed overview of medication prices per hospital, please refer to Table 1 attached. All currencies provided in this report are US dollars.

## 2.5 TREATMENT

Below is a comparative overview of the treatments available at each of the five health facilities, as SOMAL Pharma Pharmacy does not provide any treatments. The respondents were asked to specify whether the treatment is fully, partly or not available in this facility. “Partly available” refers to treatments that are not available immediately at the hospital and requires on-call or visiting specialist doctors. For instance, Spine surgery conducted by an orthopaedic specialist is not feasible at both Ladnan and Erdogan. Still, neurosurgeons conduct such operations, except for endoscopic spine surgery and cases that require advanced experience and equipment.

Follow-up by general practitioners is available.

	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	Forlanini Hospital
Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Available	Available	Available	Available	N/A
Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	N/A	N/A	N/A. Internal medicine doctors treat people suffering from diabetes	N/A	N/A
Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	N/A	N/A	N/A. No endocrinologist available but GP doctors provide consultation services for diabetes patients	N/A	N/A
Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self-use by patient	N/A	Partly available: the glucometer is used by hospital nurses to assist patients while in the hospital.	Partly available: the devices are not for sale but available for the patients in the inpatient section if doctors instruct them to check their blood	Available	Available

			sugar on regular basis		
	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	Forlanini Hospital
Diabetes type I & II: Medical devices internal medicine: blood glucose self-test strips for use by patient	Available	Partly available: the glucometer is used by hospital nurses to assist patients while in the hospital.	Partly available: the devices are not for sale but available for the patients in the inpatient section if doctors instruct them to check their blood sugar on regular basis	Available	Available
Diabetes type I & II: Laboratory research of blood glucose (incl.: HbA1C/ glyc.Hb)	Partly available - HbA1C test is not available	Available	Available	Available	N/A
Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Partly available - electrolytes test is not available	Available	Available	Available	N/A
Diabetes type I & II: Medical devices internal medicine: insulin pump	N/A	N/A	N/A	Available	N/A
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist	N/A	N/A	Available	N/A	Available
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	N/A	N/A	N/A	N/A	Available

	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	Forlanini Hospital
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	N/A	N/A	N/A	N/A	Available
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	N/A	N/A	N/A	N/A	Available
Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	N/A	N/A	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	N/A	N/A	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	N/A	N/A	Available	N/A	Available
Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	N/A	N/A	N/A	N/A	N/A
Kidney transplant: Inpatient treatment by a kidney specialist	N/A	N/A	N/A	Partly available: General Practitioners	N/A

(a nephrologist)				provide treatment for patients recovering from kidney transplantation if they are admitted to the Hospital	
	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	Forlanini Hospital
Kidney transplant: Transplantation of kidney including all pre- and aftercare	N/A	N/A	N/A	N/A	N/A
Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	N/A	Available	Available	Available	N/A
Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	N/A	N/A	N/A	N/A	N/A
Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	N/A	N/A	N/A	N/A	N/A
Liver transplant: Transplantation of liver including all pre- and aftercare	N/A	N/A	N/A	N/A	N/A
Liver transplant: Laboratory	Only ASAT (=SGOT)	Partly available: all	Available	Available	N/A

research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	and ALAT (=SGPT) are available	listed lab services are available except transaminases			
	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	Forlanini Hospital
Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	N/A	N/A	Available	Available	N/A
Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	N/A	N/A	Available	Available	N/A
Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	N/A	N/A	Available	Available	N/A
Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	N/A	N/A	Available	Available	N/A
Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardio gram; cardiology)	N/A	N/A	Available	Available	N/A
Cardiac complications and	N/A	N/A	Available	Available	N/A

hypertension: Diagnostic imaging by means of ultrasound of the heart					
	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	Forlanini Hospital
HIV/AIDS: Inpatient treatment by a HIV specialist	N/A	Partly available: general practitioner doctors are available in the HIV centre and act as HIV specialists	N/A	N/A	N/A
HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	N/A	Partly available: general practitioner doctors are available in the HIV centre and act as HIV specialists	N/A	N/A	N/A
HIV/AIDS: Laboratory research HIV: CD4 count	N/A	Available	N/A	N/A	N/A
HIV/AIDS: Laboratory research HIV: viral load	N/A	Available	N/A	N/A	N/A
HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	N/A	Partly available: general practitioner doctors are available in the HIV centre and act as infectiologists	N/A	N/A	N/A
HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	N/A	Partly available: general practitioner doctors are available in the HIV centre and act	N/A	N/A	N/A

		as infectiologists			
	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	Forlanini Hospital
Kidney diseases, including dialysis: Nephrology: chronic haemodialysis (3 times a week)	N/A	Partly available: the haemodialysis centre is constructed but not functional yet	Available	N/A	N/A
Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	N/A	N/A	N/A	N/A	N/A
Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	N/A	N/A	Partly available: no nephrologist available, but General Practitioner Doctors provide treatment for patients with kidney diseases when admitted to the inpatient section of the hospital	N/A: they refer all patients that require dialysis to Erdogan hospital	N/A
Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	N/A	N/A	Partly available - no nephrologist outpatient services available in the hospital now but internal medicine doctors treat patients with kidney diseases	N/A: they refer all patients that require dialysis to Erdogan hospital	N/A

	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	Forlanini Hospital
Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	N/A	Available	Available	Available	N/A
Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	N/A	Available	Available	Available	N/A
Cancer: Inpatient treatment by a cancer specialist (an oncologist)	N/A	N/A	N/A	N/A	N/A
Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	N/A	N/A	N/A	N/A	N/A
Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Available	Available	Available	Available	Partly available: only Hb test available
Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	N/A	N/A	Available	Partly available: they refer such cases to specialist clinics.	N/A
Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	N/A	N/A	Available	Partly available: they refer such cases to specialist clinics.	N/A

	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	Forlanini Hospital
Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	N/A	Available: Inhalers are used by the nurses when treating patients	Available	Available	N/A
Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	Available: Salbutamol puffs by mouth	Available: Inhalers are used by the nurses when treating patients	Available	Available	N/A
Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopaedist /orthopaedic surgeon)	N/A	N/A	Available	Partly available: visiting doctors come to Mogadishu from time to time and the hospital informs patients about these visiting doctors who charge below amount when they conduct the spine surgery operations	N/A
Spine surgery: Surgery, specifically orthopaedic surgery of the spine	N/A	N/A	Available	Partly available: visiting doctors come to Mogadishu from time to time and the hospital informs patients about these visiting doctors who	N/A

				charge below amount when they conduct the spine surgery operations	
	WARDI Community Hospital	Benadir Hospital	Erdogan Hospital	Ladnan Hospital	Forlanini Hospital
Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopaedist / orthopaedic surgeon)	N/A	N/A	Available	Partly available: visiting doctors come to Mogadishu from time to time and the hospital informs patients about these visiting doctors who charge below amount when they conduct the spine surgery operations	N/A
Spine surgery: Anaesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection	N/A	N/A	Available	Partly available: anaesthesiologists trained to conduct listed procedures are available on call and they are usually notified one day before the operation	N/A
Spine surgery: Outpatient treatment and follow up by a physical therapist	N/A	N/A	Available	N/A. There is no physiotherapist and they refer patients to physical therapists in other clinics	N/A

Tattoo removal services	N/A	N/A	N/A	N/A	N/A
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For a detailed overview of treatment prices per hospital, please refer to Table 2 attached.

As is shown in both the Medications and Treatments tables, the options for dialysis are limited. The only functioning dialysis centre in Mogadishu is located inside Erdogan Hospital, and it is equipped with 35 machines. There is another centre built by the Saudi Government inside Benadir Hospital in 2012 and equipped with 25 devices, but it was never opened since it was built in 2012.

## 2.6 COST RECOVERY MECHANISMS AND PRICING

The prices and dosages of individual medications and treatments, as well as pricing, can be found in Tables 1 and 2. Generally, the prices for medications and treatments are too high for the majority of Somalis, especially for poor households, unemployed people, and people working in wage-based sectors. The hospitals providing free services, WARDI Community Hospital and Benadir Hospital, which is evident in the services provided: these are usually of poor standard. Furthermore, the buildings and equipment lack maintenance due to the overuse of the facility. Therefore, while they provide free services, they are not able to cater for the large number of low-income populations needing health care. Forlanini, which also offers some free care, is not overburdened – currently only 60 out of the 100 beds are occupied. However, the services and equipment are not of adequate quality, because the government does not provide budgetary support to the hospital.

Each health facility was also asked about the existence of any cost recovery mechanisms.

At WARDI Community Hospital, there are cost recovery mechanisms because all services (medication, laboratory, delivery, c-section operations, admission of patients for a doctor consultation) are free. Likewise, at Benadir Hospital, all treatments and medications in stock and laboratory services are provided free of charge to the public. The hospital specialises on maternal and child care, and most doctors in the hospital are general practitioners, paediatricians, obstetricians & gynaecology doctors.

At Erdogan Hospital, there are no endocrinologist, hepatologist, nephrologist, or oncologist at the hospital. Internal doctors/general surgeons treat patients coming in for these specific treatments for a fee, which varies depending on the type of treatment.

At Ladnan, low-income people are not charged any fees except the initial card fee of (\$2) and doctor consultation fee of (\$5). The hospital management then assesses the situation of the patient and determine whether they are able or not to pay all the costs of the treatment. The hospital management also visits nearby IDPs camps to identify and assist severe cases, and they get free treatment. Poor people referred from other hospitals are also treated free of charge. Patients with Takaful Insurance company clients are also treated free of charge, and the hospital claims expenses from the insurance company.

At SOMAL Pharma Pharmacy, there is no cost recovery mechanism available. The facility does not provide any treatment, only medications.

At Forlanini Hospital, patients who cannot afford to pay the consultation fees are treated free of charge in the OPD. Patients from the Multi Drug-Resistant TB centre within the hospital are also not charged. Police also sometimes brings drug abusers, and they are treated free of charge before finding their relatives and families. The hospital clients are from poor socio-economic groups. According to the interviewed doctor, 60% of patients are not charged any fees in the second visit.



REPORT OF STUDY FINDINGS, AUGUST 2020

# MEDICAL REGION OF ORIGIN INFORMATION FOR SOMALIA: KISMAYO

Client: Danish Immigration Services

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# 1 INTRODUCTION

This report presents an analysis of the data collection carried out in August 2020 in three health facilities in Kismayo for the Danish Immigration Services (DIS) Medical Country of Origin Information from Somalia. The facilities have been selected to represent both the private and public health services available in the city, as well as a pharmacy. The facilities are also differentiated by specialisation and by location within the city, to reflect how health services differ from neighbourhood to neighbourhood.

At each facility visited, our team member interviewed a health professional using the survey designed in SurveyMonkey, which can be used by a mobile device. Our team member also spent some time observing the entrance and waiting area of each facility, in order to gauge the profile of the people visiting the facility. Below is the summary of these findings. The full dataset provides the detailed responses collected at each facility.

# 2 ANALYSIS OF RESPONSES

## 2.1 DESCRIPTION OF THE HEALTH FACILITIES SURVEYED

The three health facilities in Kismayo surveyed are:

<p><b>Kismayo General Hospital</b></p>	<p>Public hospital that serves as a referral hospital and regional hospital for Middle Juba and Lower Juba. The hospital has three departments: 1) Maternity department for delivery and treatment of pregnant women and infants, (2) Nutrition department for the treatment of malnourished children, (3) Minor surgeries, and (4) General health department. There are no specialist doctors in the hospital and heads of the departments are general practitioners.</p> <p>The persons interviewed were the ARC/HIV Counsellor and the Head of Pharmacy.</p>
<p><b>Shafici Diagnostic Center</b></p>	<p>The private pharmacy is located at a central location along Kismayo's main tarmac road. The visited facility is one of the largest private pharmacies in Kismayo, and its customers are middle and upper socio-economic groups living in the city who can afford to pay for the medicines and service offered by the facility. The centre deals with general health issues and have no specialist doctors.</p> <p>The person interviewed was the Director General/Doctor.</p>
<p><b>Daryeel General Hospital</b></p>	<p>Daryeel Hospital is one of the leading private hospitals in Kismayo and is located in the centre of the city. Daryeel Hospital deals with all general health matters and has new equipment and trained medical personnel including a laboratory, general practitioner doctors, qualified nurses and midwives. The hospital provides treatment for general illnesses and has no specialist doctors. It has only one general health inpatient department for both male and female patients and a maternity ward.</p> <p>The person interviewed was the Manager/Pharmacist.</p>



*Figure 1: Map of Kismayo and the three health facilities surveyed: Kismayo General Hospital, Shafici Diagnostic Center, and Daryeel General Hospital, as well as Kismayo International Airport*

## 2.2 OBSERVATIONS<sup>1</sup>

### General remarks

The general security situation of Kismayo town is quite settled and reliable. The town is calm, and no major security incidents have occurred since the beginning of the year. The town has an airport for both local and international flights, which is open and functional, although flights were restricted recently due to the COVID-19 pandemic. No roadblocks and movement restrictions exist within the town, and civilians move around easily. There are severe movement restrictions in areas under the control of al-Shabaab, and most residents of the city do not travel beyond 30 kilometres outside the town to all directions.

### Kismayo General Hospital

The hospital has armed security guards at the main entrance, and it is open 24 hours a day. The hospital receives different kind of people from Kismayo town and its surrounding villages, the majority being from the middle and low socio-economic groups. Women and children, poor, elderly, IDPs and returnees from Dadaab refugee camp constitute the majority of patients in the hospital.

The Hospital is overcrowded with patients since it is the only public hospital that provides free treatment and medicines in Kismayo city and its surrounding villages. All visitors of the hospital are treated equally regardless of their clan affiliation, gender and disability. The support staff and nurses in the hospital seemed overwhelmed, and there are evident shortages of both medical personnel and equipment. In spite of the workload and the limited resources, the hospital management stated that they are committed to serving the public and to make the hospital environment conducive for all

<sup>1</sup> The source of the security assessment are observations based on existing knowledge of the enumerator about the situation and overall perceptions of local communities on the safety and security of their cities or towns. To triangulate these observations, we have consulted security reports from ACCORD – Austrian Centre for Country of Origin and Asylum Research and Documentation about the security situation in Somalia, which includes specific information about Kismayo: <https://www.ecoi.net/en/countries/somalia/featured-topics/security-situation/#Toc520443451>

during and after official working hours. The facility management confirmed that they treat all patients and clients fairly regardless of their gender, age, clan, disability, and residence location (rural or urban).

It should be noted that while Kismayo General Hospital has a significant number of HIV/AIDS medications available, it is not specialised in HIV/AIDS and has no specialised doctor for HIV/AIDS treatment, but there are trained counsellors and department supervisor for medical prescription and counselling HIV/AIDS patients.

### **Shafici Diagnostic Center**

The public has easy access to the facility on foot and by road. The pharmacy has no security guards since it is a private facility.

### **Daryeel General Hospital**

The public has access to the facility by foot, and people from far areas reach it by road. It has security guards who are on duty 24 hours a day, and they check and clear all clients visiting the hospital. Most of the patients of the hospital are from the middle- and upper-class socioeconomic groups, and treatments provided by the facility are relatively expensive. Different patients from Kismayo and surrounding areas are welcome in the facility without discrimination on the basis of clan, gender, age and illness. The facility treats anyone who can afford to pay the fees of the specific treatment they require.

## **2.3 REGISTRATION OF MEDICATION**

What is the procedure(s) for registration of medication?	All three facilities surveyed indicated that there is no medication registration undertaken by the authorities in Kismayo.
Are there quality controls done on registered medication?	All three facilities surveyed stated that there is no quality control done in Kismayo by the state or local authorities.
Is medication illegal, if it is not registered?	All three facilities responded no, as there is no registration process.
Do you have a list of approved and/or essential drugs, and if so, who are responsible for the regulation of it?	Only Kismayo General Hospital responded that there is a list of essential drugs provided by ICRC, which supports the supply of medication to the hospital. The other two facilities did not have such a list.  Kismayo General Hospital indicated that there is only a hard copy of the guideline available, and that they need to seek approval from ICRC if a copy of the guideline is needed.
How often is it updated?	Kismayo General Hospital responded that there is no timeframe for updating the document.
Can a contact to a person (email / phone) employed at the FMOH	At Kismayo General Hospital, it was stated that the District Health Officer and Health Management Information officer (H. M. I. S.) from the Ministry of Health in Jubaland State of Somalia is responsible for

be established?	such issues. In the two other facilities, the respondents stated they have no information about which officials or regulatory authorities at the Jubaland Ministry of Health are responsible for these issues.
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## 2.4 MEDICATION

Below is a comparative overview of the medications available at each of the three health facilities. “Available” means the medication is available at present time in the facility; “N/A”, that the medication is not available; “Partly available”, that the medication is not available at present time, but can be ordered within a given time frame.

All three facilities surveyed have a storage facility that includes electricity.

	Kismayo General Hospital	Shafici Diagnostic	Daryeel Hospital
Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Available	Available	Available
Insulin injections: Intermediate-acting: Insulin isophane	N/A	N/A	N/A
Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Available	Available	Available
Oral hypoglycaemic agents/blood glucose lowering medication: Metformin	Available	Available	Available
Oral hypoglycaemic agents/blood glucose lowering medication: Gliclazide	Available	Available	Available
Anti-psychotic medication: Olanzapine	N/A	N/A	N/A
Anti-psychotic medication: Chlorpromazine	N/A	N/A	N/A
Anti-psychotic medication: Haloperidol	N/A	N/A	N/A
Anti-psychotic medication: Risperidone	N/A	N/A	N/A
Anti-psychotic medication: Clozapine	N/A	N/A	N/A
Anti-psychotic medication: Aripiprazole depot injection	N/A	N/A	N/A

Antidepressant medication: Amitriptyline	N/A	N/A	N/A
	Kismayo General Hospital	Shafici Diagnostic	Daryeel Hospital
Antidepressant medication: Sertraline	N/A	Available	Available
Antidepressant medication: Fluoxetine	N/A	Available	Available
Post-traumatic stress disorder/sedative medication: Diazepam	Available	Available	Available
Post-traumatic stress disorder/sedative medication: Lorazepam	N/A	N/A	N/A
Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	N/A	N/A	N/A
Medicines for pain management: Acetylsalicylic acid	Available	Available	Available
Medicines for pain management: Ibuprofen	Available	Available	Available
Medicines for pain management: Paracetamol	Available	Available	Available
Medicines for pain management: Morphine	N/A	N/A	N/A
Cardiac complications/heart failure: Digoxin	N/A	Available	Available
Cardiac complications/heart failure: Furosemide	Available	Available	Available
Cardiac complications/heart failure: Spironolactone	N/A	Available	Available
Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Available	Available	Available
Antithrombotic medicines/blood thinning medicine: Clopidogrel	N/A	N/A	N/A
Antithrombotic medicines/blood thinning	N/A	Available	Available

medicine: Warfarin			
	Kismayo General Hospital	Shafici Diagnostic	Daryeel Hospital
Anti-hypertensive medication/medication for lowering high blood pressure: Amlodipine	Available	Available	Partly available: will arrive within 1 week
Anti-hypertensive medication/medication for lowering high blood pressure: Bisoprolol	N/A	Available	Available
Anti-hypertensive medication/medication for lowering high blood pressure: Enalapril	Available	Available	Available
Anti-hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	N/A	Partly available: it will take 2 weeks to arrive	Partly available: will arrive within 1 week
Anti-hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	N/A	Available	Available
Anti-hypertensive medication/medication for lowering high blood pressure: Losartan	N/A	Available	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	N/A	Partly available: it will take 2 weeks to arrive	Partly available: will arrive within 1 week
Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	N/A	Available	Partly available: will arrive within 1 week
Antiretrovirals/HIV medicine: Dolutegravir	Available	N/A	N/A
Antiretrovirals/HIV medicine: Efavirenz	Available	N/A	N/A
Antiretrovirals/HIV medicine: Nevirapine	Available	N/A	N/A

	Kismayo General Hospital	Shafici Diagnostic	Daryeel Hospital
Antiretrovirals/HIV medicine: Ritonavir	Available	N/A	N/A
Antiretrovirals/HIV medicine: Darunavir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Atazanavir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Atazanavir + ritonavir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Available	N/A	N/A
Combination tablets: Abacavir + lamivudine	Available	N/A	N/A
Combination tablets: Dolutegravir + lamivudine + tenofovir	Available	N/A	N/A
Combination tablets: Efavirenz + emtricitabine + tenofovir	N/A	N/A	N/A
Combination tablets: Efavirenz + lamivudine + tenofovir	Available	N/A	N/A
Combination tablets: Emtricitabine + tenofovir	Available	N/A	N/A
Combination tablets: Lamivudine + nevirapine + zidovudine	Available	N/A	N/A
Combination tablets: Lamivudine + zidovudine	Available	N/A	N/A
Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	N/A	N/A	N/A
Medicine for dialysis: Intra-peritoneal dialysis solution	N/A	N/A	N/A

	Kismayo General Hospital	Shafici Diagnostic	Daryeel Hospital
Medicine for inhalation: Formoterol	N/A	N/A	N/A
Medicine for inhalation: Budesonide	Available	Available	Available
Medicine for inhalation: Fluticasone propionate	N/A	Available	Available
Tablets: Prednisolone	Available	Available	Available
Cancer: Which chemotherapy medications are available?	N/A	N/A	N/A
Is immunotherapy available and if so, which ones?	N/A	N/A	N/A

For a detailed overview of medication prices per hospital, please refer to Table 1 attached. All currencies provided in this report are US dollars.

## 2.5 TREATMENT

Below is a comparative overview of the treatments available at each of the three health facilities. The respondents were asked to specify whether the treatment is fully, partly or not available in this facility. “Partly available” refers to treatments that are not available immediately at the hospital and requires on-call or visiting specialist doctors, or that only some of a listed set of treatments are available at present time.

	Kismayo General Hospital	Shafici Diagnostic	Daryeel Hospital
Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Available	Available	Available
Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	N/A	N/A	N/A
Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	N/A	N/A	N/A
Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self-use by patient	N/A	Available	Available
Diabetes type I & II: Medical devices internal medicine: blood glucose self-test strips for use by patient	N/A	Available	Available
Diabetes type I & II: Laboratory research of blood glucose (incl.: HbA1C/ glyc.Hb)	Available	Available	Available
Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Available	Available	Available
Diabetes type I & II: Medical devices internal medicine: insulin pump	N/A	Available	N/A
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by	N/A	N/A	N/A

psychiatrist			
	Kismayo General Hospital	Shafici Diagnostic	Daryeel Hospital
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	N/A	N/A	N/A
Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	N/A	N/A	N/A
Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	N/A	N/A	N/A
Kidney transplant: Transplantation of kidney including all pre- and aftercare	N/A	N/A	N/A
Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria,	Available	Available	Available

sodium, potassium levels)			
	Kismayo General Hospital	Shafici Diagnostic	Daryeel Hospital
Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	N/A	N/A	N/A
Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	N/A	N/A	N/A
Liver transplant: Transplantation of liver including all pre- and aftercare	N/A	N/A	N/A
Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Available	Available	Available
Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	N/A	N/A	N/A
Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	N/A	N/A	N/A
Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	N/A	N/A	N/A
Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	N/A	N/A	N/A
Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardio gram; cardiology)	N/A	Available	Available
Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	Available	Available	Available
HIV/AIDS: Inpatient treatment by a HIV specialist	N/A	N/A	N/A

	Kismayo General Hospital	Shafici Diagnostic	Daryeel Hospital
HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	N/A	N/A	N/A
HIV/AIDS: Laboratory research HIV: CD4 count	Available	Available	N/A
HIV/AIDS: Laboratory research HIV: viral load	N/A	N/A	N/A
HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	N/A	N/A	N/A
HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	N/A	N/A	N/A
Kidney diseases, including dialysis: Nephrology: chronic haemodialysis (3 times a week)	N/A	N/A	N/A
Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	N/A	N/A	N/A
Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	N/A	N/A	N/A
Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	N/A	N/A	N/A
Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	N/A	Partly available: no dialysis but laboratory research for PTH, calcium and phosphate are available	Partly available: no dialysis but laboratory research for PTH, calcium and phosphate available
Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	N/A	Partly available: no dialysis but laboratory research for renal/kidney function (creatinin, ureum, proteinuria,	Partly available: no dialysis but laboratory research for renal/kidney function (creatinin, ureum, proteinuria,

		sodium potassium) are available	sodium potassium) are available
	Kismayo General Hospital	Shafici Diagnostic	Daryeel Hospital
Cancer: Inpatient treatment by a cancer specialist (an oncologist)	N/A	N/A	N/A
Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	N/A	N/A	N/A
Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Available	Available	N/A
Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	N/A	N/A	N/A
Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	N/A	N/A	N/A
Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	N/A	Available	N/A
Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	N/A	Partly available: available when people need it and they charge it according to that need but not offered to the public.	N/A
Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopaedist /orthopaedic surgeon)	N/A	N/A	N/A
Spine surgery: Surgery, specifically orthopaedic surgery of the spine	N/A	N/A	N/A

	Kismayo General Hospital	Shafici Diagnostic	Daryeel Hospital
Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopaedist / orthopaedic surgeon)	N/A	N/A	N/A
Spine surgery: Anaesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection	N/A	N/A	N/A
Spine surgery: Outpatient treatment and follow up by a physical therapist	N/A	N/A	N/A
Tattoo removal services	N/A	N/A	N/A

For a detailed overview of treatment prices per hospital, please refer to Table 2 attached.

## 2.6 COST RECOVERY MECHANISMS AND PRICING

The prices and dosages of individual medications and treatments, as well as pricing, can be found in Tables 1 and 2. Generally, the prices for medications and treatments at the two private facilities, Shafici Diagnostic Centre and Daryeel General Hospital, are too high for the majority of Somalis, especially for poor households, unemployed people, people working in wage-based sectors and IDPs. The hospital providing free services, Kismayo General Hospital, is overburdened by the amount of people needing care, as stated above, and there is not enough staff or equipment of good enough quality to cater to all patients' needs. Support staff and nurses in the hospital are overwhelmed, and there are evident shortages of both medical personnel, medications and equipment.

Each health facility was also asked about the existence of any cost recovery mechanisms. None of the facilities surveyed indicated that there are cost recovery mechanisms available.



REPORT OF STUDY FINDINGS, AUGUST 2020

# MEDICAL REGION OF ORIGIN INFORMATION FOR SOMALIA: BARDHEERE

Client: Danish Immigration Services

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# 1 INTRODUCTION

This report presents an analysis of the data collection carried out in August 2020 in three health facilities in Bardheere for the Danish Immigration Services (DIS) Medical Country of Origin Information from Somalia. The facilities have been selected to represent both the private and public health services available in the city, as well as a pharmacy. The facilities are also differentiated by specialisation and by location within the city, to reflect how health services differ from neighbourhood to neighbourhood.

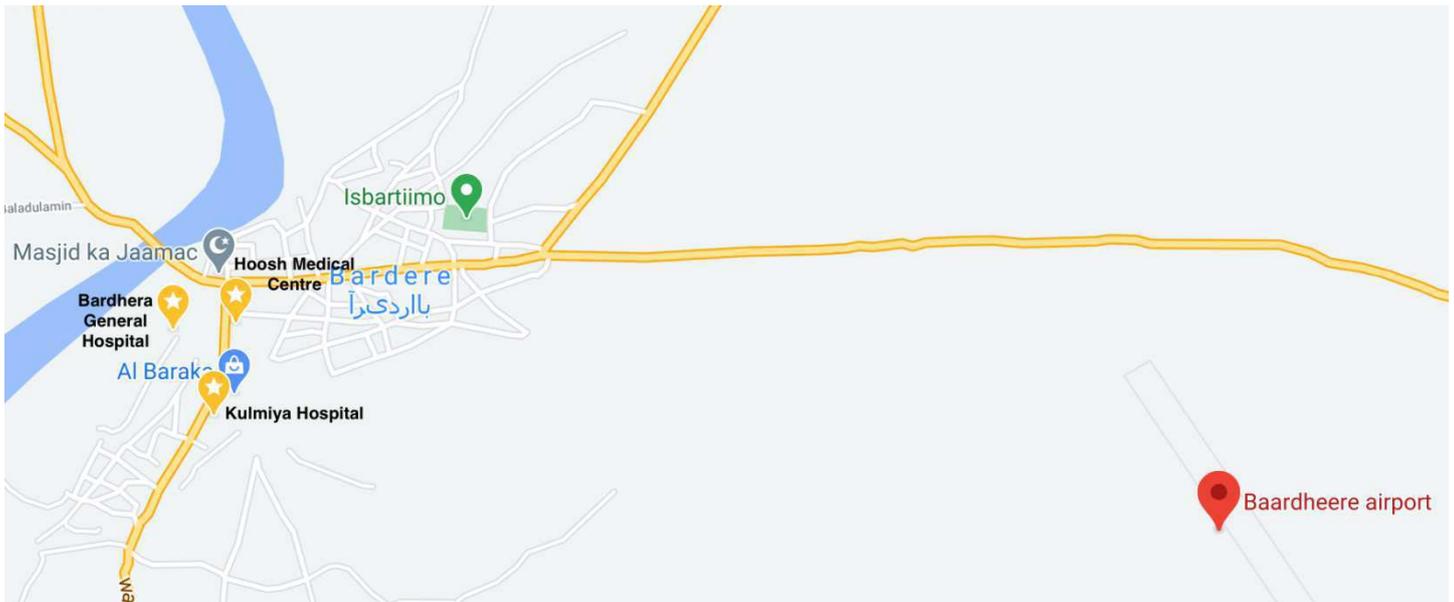
At each facility visited, our team member interviewed a health professional using the survey designed in SurveyMonkey, which can be used by a mobile device. Our team member also spent some time observing the entrance and waiting area of each facility, in order to gage the profile of the people visiting the facility. Below is the summary of these findings. The full dataset provides the detailed responses collected at each facility.

# 2 ANALYSIS OF RESPONSES

## 2.1 DESCRIPTION OF THE HEALTH FACILITIES SURVEYED

The three health facilities in Bardheere surveyed are:

<p><b>Hoosh Medical Centre</b></p>	<p>Hoosh Medical Centre is a private pharmacy with a reasonable stock of medicines. The public has easy to access to the facility by foot. It is located in the centre of the town, and the entrance is lit at night. The facility has a doctor assisting patients by offering them advice on medications they need and explains to them how to use it.</p> <p>The person interviewed was the manager and owner of the facility.</p>
<p><b>Bardhera General Hospital</b></p>	<p>Bardhera General Hospital provides health services like OPD, Maternity, Nutrition (TSFP) and a Stabilisation Centre for malnourished children The staff in the hospital comprises general practitioners (3), qualified nurses, and auxiliary nurses. The hospital is supported by NGOs including HIRDA, SDC and IOM.</p> <p>The person interviewed was the manager of the hospital and lead physician.</p>
<p><b>Kulmiya Hospital</b></p>	<p>Kulmiye Hospital is a private clinic that offers health services, including inpatient and outpatient, to the public. The hospital is run by a general practitioner doctor. Pregnant women also seek treatment from the hospital and the doctor provides consultation and labour service for women as there is no gynaecologist and obstetrics specialist in Bardheere town.</p> <p>The person interviewed was the lead physician of the hospital.</p>



*Figure 1: Map of Bardheere and the three health facilities surveyed: Hoosh Medical Centre, Bardhera General Hospital, and Kulmiya Hospital, as well as Bardheere airport*

## 2.2 OBSERVATIONS<sup>1</sup>

### General remarks

Bardheere city is generally considered safe. There are no blocked roads, and the airstrip is open and functioning. Safety in areas outside the town is unpredictable, as al-Shabaab have a presence in areas within 10 km outside the city.

### Hoosh Medical Centre

The pharmacy is one of the most preferred facilities by many residents of Bardheere town due to the presence of qualified staff and prices of medications, and people from all clans are welcome in the facility, since it is a private and profit-seeking entity. Most of the clients in the hospital are from the middle-class population. The centre offers few treatments and medicines because people that require treatment from specialist doctors often travel to Mogadishu to obtain such care. The COVID-19 pandemic also severely affected the supply of medicines in the centre due to disruptions in the global supply chain of medicines.

### Bardhera General Hospital

Bardhera General Hospital accessible to everyone, and it is located in the safest area in town due to its proximity to the police station. People from different socio-economic backgrounds seek medical services from the facility because of the free treatment and medications offered to them there. All people in the facility are treated equally, and there is no indication of any discrimination based on clan, gender or age. Women, children and IDPs are the majority of patients who seek treatment in the

<sup>1</sup>The source of the security assessment are observations based on existing knowledge of the enumerator about the situation and overall perceptions of local communities on the safety and security of their cities or towns.

facility.

### **Kulmiya Hospital**

The facility is accessible to all residents of Bardheere by foot and car, and it is located in a central and safe location. The facility is open for all without discrimination, and most clients seem to belong to the middle class of society, due to the quality, and thus price, of services offered in the facility. The Hospital has a relatively better stock of medicines and their stock is mainly ordered according to the need in the market. The COVID-19 pandemic also affected the supply of medicines in the facility due to closure of airports in the country for local and international flights. Another reason for the limited availability of treatment and medications is that patients seeking treatment from specialist doctors are referred to Mogadishu.

## **2.3 REGISTRATION OF MEDICATION**

What is the procedure(s) for registration of medication?	All three facilities agreed that there are no procedures in place in Bardheere to register medication. One specified that the district or state authorities of Jubaland state do not register medicines, and another stated that medicines do not require any registration or special permission to be sold in Bardheere.
Are there quality controls done on registered medication?	All three facilities surveyed stated that there is no quality control done on registered medication in Bardheere.
Is medication illegal, if it is not registered?	All three facilities responded no, as there is no registration process.
Do you have a list of approved and/or essential drugs, and if so, who are responsible for the regulation of it?	All three facilities stated that there is no list of approved and/or essential drugs.
How often is it updated?	See above.
Can a contact to a person (email / phone) employed at the FMOH be established?	One of the facilities stated that they are not aware of who is responsible for these matters. The two others stated that there is no specific regulatory authority responsible for medication, but referred to the District Health Officer (DHO) at the Jubaland State Ministry of Health.

## 2.4 MEDICATION

Below is a comparative overview of the medications available at each of the three health facilities. “Available” means the medication is available at present time in the facility; “N/A”, that the medication is not available; “Partly available”, that the medication is not available at present time, but can be ordered within a given time frame.

All three facilities surveyed have a storage facility that includes electricity.

	Hoosh Medical Centre	Bardhera General Hospital	Kulmiya Hospital
Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	N/A	N/A	Available
Insulin injections: Intermediate-acting: Insulin isophane	N/A	N/A	N/A
Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	N/A	N/A	N/A
Oral hypoglycaemic agents/blood glucose lowering medication: Metformin	Available	Available	N/A
Oral hypoglycaemic agents/blood glucose lowering medication: Gliclazide	N/A	N/A	N/A
Anti-psychotic medication: Olanzapine	N/A	N/A	N/A
Anti-psychotic medication: Chlorpromazine	N/A	N/A	N/A
Anti-psychotic medication: Haloperidol	N/A	N/A	N/A
Anti-psychotic medication: Risperidone	N/A	N/A	N/A
Anti-psychotic medication: Clozapine	N/A	N/A	N/A
Anti-psychotic medication: Aripiprazole depot injection	N/A	N/A	N/A

	Hoosh Medical Centre	Bardhera General Hospital	Kulmiya Hospital
Antidepressant medication: Amitriptyline	Available	N/A	Available
Antidepressant medication: Sertraline	N/A	N/A	N/A
Antidepressant medication: Fluoxetine	N/A	N/A	N/A
Post-traumatic stress disorder/sedative medication: Diazepam	Available	N/A	Available
Post-traumatic stress disorder/sedative medication: Lorazepam	Available	N/A	Available
Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	N/A	N/A	N/A
Medicines for pain management: Acetylsalicylic acid	Available	N/A	Partly available: will arrive in 2-3 weeks
Medicines for pain management: Ibuprofen	Available	Available	Available
Medicines for pain management: Paracetamol	Available	Available	Available
Medicines for pain management: Morphine	N/A	N/A	N/A
Cardiac complications/heart failure: Digoxin	N/A	N/A	Available
Cardiac complications/heart failure: Furosemide	N/A	N/A	Available
Cardiac complications/heart failure: Spironolactone	N/A	N/A	N/A
Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Available	N/A	Partly available: will arrive in 2-3 weeks
Antithrombotic medicines/blood thinning medicine: Clopidogrel	N/A	N/A	N/A

	Hoosh Medical Centre	Bardhera General Hospital	Kulmiya Hospital
Antithrombotic medicines/blood thinning medicine: Warfarin	N/A	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Amlodipine	Available	N/A	Available
Anti-hypertensive medication/medication for lowering high blood pressure: Bisoprolol	N/A	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Enalapril	N/A	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	N/A	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	N/A	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Losartan	N/A	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	N/A	N/A	N/A
Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Available	N/A	Available
Antiretrovirals/HIV medicine: Dolutegravir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Efavirenz	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Nevirapine	N/A	N/A	N/A

	Hoosh Medical Centre	Bardhera General Hospital	Kulmiya Hospital
Antiretrovirals/HIV medicine: Ritonavir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Darunavir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Atazanavir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Atazanavir + ritonavir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	N/A	N/A	N/A
Combination tablets: Abacavir + lamivudine	N/A	N/A	N/A
Combination tablets: Dolutegravir + lamivudine + tenofovir	N/A	N/A	N/A
Combination tablets: Efavirenz + emtricitabine + tenofovir	N/A	N/A	N/A
Combination tablets: Efavirenz + lamivudine + tenofovir	N/A	N/A	N/A
Combination tablets: Emtricitabine + tenofovir	N/A	N/A	N/A
Combination tablets: Lamivudine + nevirapine + zidovudine	N/A	N/A	N/A
Combination tablets: Lamivudine + zidovudine	N/A	N/A	N/A
Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	N/A	N/A	N/A
Medicine for dialysis: Intra-peritoneal dialysis solution	N/A	N/A	N/A

	Hoosh Medical Centre	Bardhera General Hospital	Kulmiya Hospital
Medicine for inhalation: Formoterol	N/A	N/A	N/A
Medicine for inhalation: Budesonide	N/A	N/A	N/A
Medicine for inhalation: Fluticasone propionate	N/A	N/A	N/A
Tablets: Prednisolone	Available	Partly available: will arrive in 4-6 weeks	Available
Cancer: Which chemotherapy medications are available?	N/A	N/A	N/A
Is immunotherapy available and if so, which ones?	N/A	N/A	N/A

For a detailed overview of medication prices per hospital, please refer to Table 1 attached. All currencies provided in this report are US dollars.

## 2.5 TREATMENT

Below is a comparative overview of the treatments available at each of the three health facilities. The respondents were asked to specify whether the treatment is fully, partly or not available in this facility. “Partly available” refers to treatments that are not available immediately at the hospital and requires on-call or visiting specialist doctors, or that only some of a listed set of treatments are available at present time.

	Hoosh Medical Centre	Bardhera General Hospital	Kulmiya Hospital
Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Available	Available	Available
Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	N/A	N/A	N/A
Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	N/A	N/A	N/A
Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self-use by patient	N/A	N/A	N/A
Diabetes type I & II: Medical devices internal medicine: blood glucose self-test strips for use by patient	Available	N/A	N/A
Diabetes type I & II: Laboratory research of blood glucose (incl.: HbA1C/ glyc.Hb)	N/A	N/A	N/A
Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	N/A	N/A	Partly available: only creatinin and ureum tests available
Diabetes type I & II: Medical devices internal medicine: insulin pump	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by	N/A	N/A	N/A

psychiatrist			
	Hoosh Medical Centre	Bardhera General Hospital	Kulmiya Hospital
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	N/A	N/A	N/A
Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	N/A	N/A	N/A
Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	N/A	N/A	N/A
Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	N/A	N/A	N/A
Kidney transplant: Transplantation of kidney including all pre- and aftercare	N/A	N/A	N/A
Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria,	N/A	N/A	N/A

sodium, potassium levels)			
	Hoosh Medical Centre	Bardhera General Hospital	Kulmiya Hospital
Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	N/A	N/A	N/A
Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	N/A	N/A	N/A
Liver transplant: Transplantation of liver including all pre- and aftercare	N/A	N/A	N/A
Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	N/A	N/A	Available
Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	N/A	N/A	N/A
Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	N/A	N/A	N/A
Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	N/A	N/A	N/A
Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	N/A	N/A	N/A
Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardio gram; cardiology)	N/A	N/A	N/A
Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	N/A	N/A	N/A
HIV/AIDS: Inpatient treatment by a HIV specialist	N/A	N/A	N/A

	Hoosh Medical Centre	Bardhera General Hospital	Kulmiya Hospital
HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	N/A	N/A	N/A
HIV/AIDS: Laboratory research HIV: CD4 count	N/A	N/A	N/A
HIV/AIDS: Laboratory research HIV: viral load	N/A	N/A	N/A
HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	N/A	N/A	N/A
HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	N/A	N/A	N/A
Kidney diseases, including dialysis: Nephrology: chronic haemodialysis (3 times a week)	N/A	N/A	N/A
Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	N/A	N/A	N/A
Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	N/A	N/A	N/A
Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	N/A	N/A	N/A
Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	N/A	N/A	N/A
Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	N/A	N/A	Partly available: only creatinine, ureum, and proteinuria tests available
Cancer: Inpatient treatment by a cancer specialist (an oncologist)	N/A	N/A	N/A

	Hoosh Medical Centre	Bardhera General Hospital	Kulmiya Hospital
Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	N/A	N/A	N/A
Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Available	N/A	Partly available: only Hb is available
Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	N/A	N/A	N/A
Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	N/A	N/A	N/A
Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	N/A	N/A	N/A
Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	N/A	N/A	N/A
Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopaedist /orthopaedic surgeon)	N/A	N/A	N/A
Spine surgery: Surgery, specifically orthopaedic surgery of the spine	N/A	N/A	N/A
Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopaedist / orthopaedic surgeon)	N/A	N/A	N/A
Spine surgery: Anaesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection	N/A	N/A	N/A

	Hoosh Medical Centre	Bardhera General Hospital	Kulmiya Hospital
Spine surgery: Outpatient treatment and follow up by a physical therapist	N/A	N/A	N/A
Tattoo removal services	N/A	N/A	N/A

For a detailed overview of treatment prices per hospital, please refer to Table 2 attached.

## 2.6 COST RECOVERY MECHANISMS AND PRICING

The prices and dosages of individual medications and treatments, as well as pricing, can be found in Tables 1 and 2. Generally, the prices for medications and treatments at the two private facilities are too high for the majority of Somalis, especially for poor households, unemployed people, people working in wage-based sectors and IDPs. At Hoosh, however, prices are considered reasonable since poorer members of the community are given discounts. Bardhera General Hospital, providing free services, seems overburdened because it cannot cover all the needs of the public, as the free treatment and medications are not sufficient to meet or cover the demand from the community.

Each health facility was also asked about the existence of any cost recovery mechanisms. None of the facilities surveyed indicated that there are cost recovery mechanisms available.



REPORT OF STUDY FINDINGS, AUGUST 2020

# MEDICAL REGION OF ORIGIN INFORMATION FOR SOMALIA: BELEDWEYNE

Client: Danish Immigration Services

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# 1 INTRODUCTION

This report presents an analysis of the data collection carried out in August 2020 in three health facilities in Beledweyne for the Danish Immigration Services (DIS) Medical Country of Origin Information from Somalia. The facilities have been selected to represent both the private and public health services available in the city, as well as a pharmacy. The facilities are also differentiated by specialisation and by location within the city, to reflect how health services differ from neighbourhood to neighbourhood.

At each facility visited, our team member interviewed a health professional using the survey designed in SurveyMonkey, which can be used by a mobile device. Our team member also spent some time observing the entrance and waiting area of each facility, in order to gauge the profile of the people visiting the facility. Below is the summary of these findings. The full dataset provides the detailed responses collected at each facility.

# 2 ANALYSIS OF RESPONSES

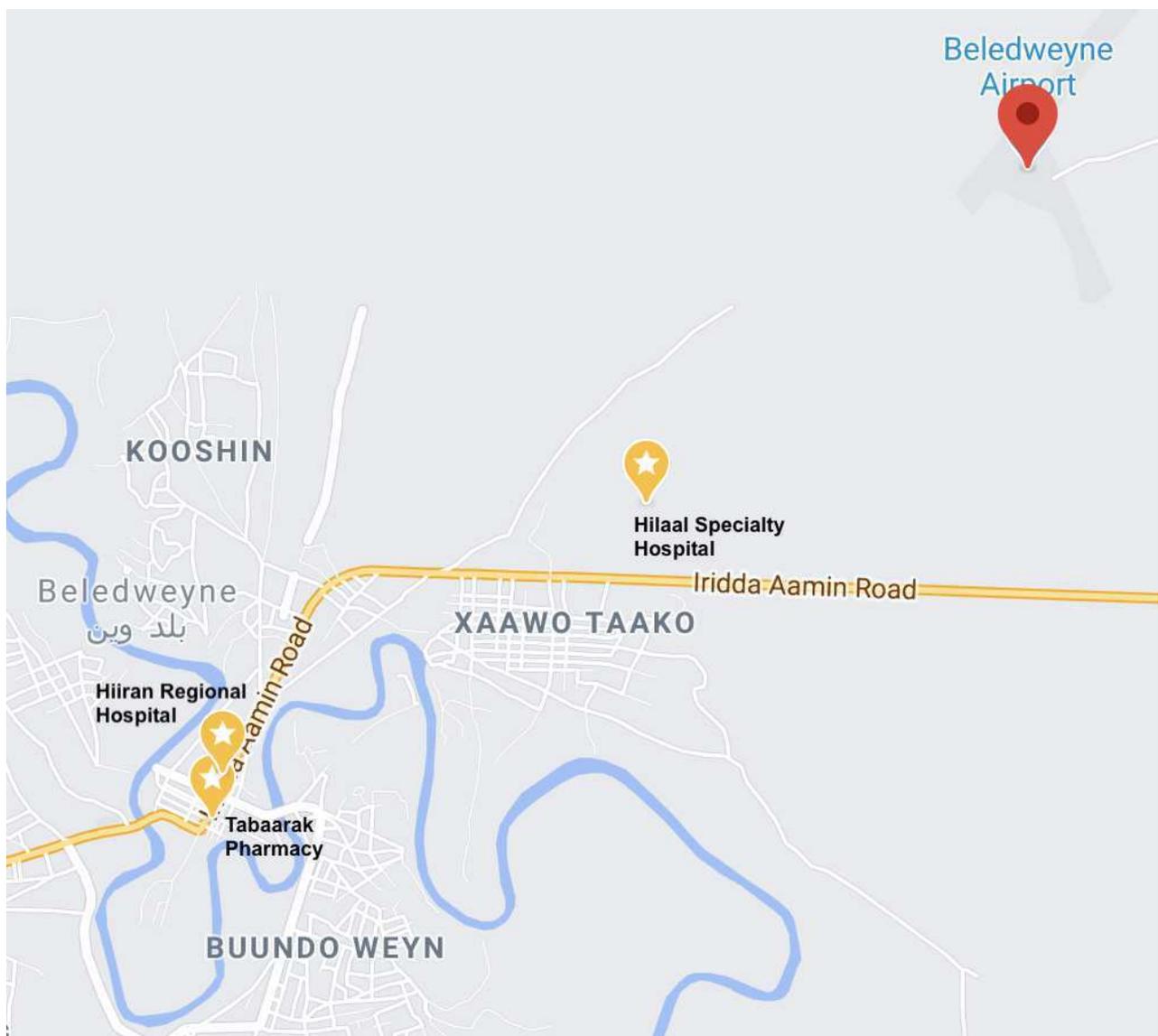
## 2.1 DESCRIPTION OF THE HEALTH FACILITIES SURVEYED

The three health facilities in Beledweyne surveyed are:

<b>Tabaarak Pharmacy (Wholesale &amp; Retail)</b>	<p>Tabaarak Pharmacy is a private pharmacy that provides wholesale and retail selling of medications. It is located in the centre of the city. The pharmacy does not offer any treatments or diagnosis and only sells medications. There is no specialist doctors or pharmacists in the facility. The supplies in the pharmacy are mostly procured from Mogadishu and delivered by air or by road, which limits overall available medication in the pharmacy.</p> <p>The person interviewed was the Head of the pharmacy. The owner of the Pharmacy manages the facility.</p>
<b>Hilaal Speciality Hospital</b>	<p>The facility is a private hospital that specialises in Gynaecology and General Surgeries. The facility has an oncologist who also treat patients as an internist doctor and a general practitioner. It is the only private speciality clinic in Beledweyne town. The facility has a surgical ward, maternity ward, internal medicine ward, and paediatric ward that provide inpatient services. Most clients of the facility are middle-income populations who can afford to pay the relatively high treatment and medication prices due to the quality of the services offered by the hospital.</p> <p>The person interviewed was the Hospital Director appointed by the owners.</p>
<b>Hiiran Regional Hospital</b>	<p>Hiiran Regional Hospital is the largest - in terms of infrastructure - public hospital in the region, built by the Italian government around 30 years ago. An NGO called WARDI, in partnership with UNICEF, supports the</p>

staff salary and supplies medications to the hospital. Some wards of the hospital have no health staff due to lack of funding. The doctors in the hospital are general practitioners and there is no specialist doctor. The hospital has maternity, paediatrics and internal medicine wards. Hiiran is not overburdened because the services provided to the public are limited and most of the staff are volunteers, which makes the hospital unable to provide quality services and handle many patients.

The person interviewed was the Head of Pharmacy and Store. The is managed by a doctor appointed by the Ministry of Health of Hirshabelle State.



*Figure 1: Map of Beledweyne and the three health facilities surveyed: Tabaarak Pharmacy, Hilaal Speciality Hospital, and Hiiran Regional Hospital, as well as Beledweyne Airport*

## 2.2 OBSERVATIONS<sup>1</sup>

### General remarks

Beledweyne city is generally considered safe. There are no blocked roads, and the airstrip is open and functioning. Safety in areas outside the town is unpredictable, as al-Shabaab has a presence in areas within 10 km outside the city.

### Tabaarak Pharmacy

The pharmacy is accessible to all by foot or by road. The facility is open at night, and there are no security guards. There is no gender, clan or age discrimination in the facility and most clients are owners of other minor pharmacies in the town and nearby villages as well as people from rural areas due to the relatively cheap prices offered at the facility.

### Hilaal Speciality Hospital

The public can access the facility by foot or road. There are security guards for men and women at the entrance, which is lit at night. The facility is located in a safe area along the road to the airport. Most of the clients are from the middle-class individuals who can afford to cover the charged fees. All people are welcome in the facility irrespective of their clan, gender and age because its open for all to make profits.

### Hiiran Regional Hospital

Hiiran Hospital is easily accessible to the public by foot and road. Different groups from the community visit the hospital, and it is open for all. The public hospital provides free care and most of the clients are poor, women, children and IDPs. The hospital provides few medications and treatments due to lack of funding, thus people in Beledweyne prefer visiting pharmacies rather than Hiiran Regional Hospital, which has limited capacity. The availability of medications is constrained by the fact that medicines are procured from Mogadishu by air cargo and by road, and some medicines requiring cool storage cannot be transported by road on long distances; and air cargo is quite expensive. Thus, the variety of medicines available in Beledweyne is limited compared to, for example, Mogadishu. Medicines available at Hiiran Hospital are also donated by aid agencies like UNICEF, as the state authorities do not provide funding to procure drugs to the hospital.

There is no discrimination on the bases of gender, clan or age observed in the hospital. Most of the patients are children and women because the only well-functioning sections in the hospital now are the Maternity with C-section theatre and the Paediatric wards.

## 2.3 REGISTRATION OF MEDICATION

What is the procedure(s) for registration of medication?	All three surveyed facilities agreed that there is no procedure for registering medications in Beledweyne or Somalia in general.
Are there quality controls done on registered	All three surveyed facilities agreed that there is no quality control done on mediation in Beledweyne, nor standards to be

<sup>1</sup> The source of the security assessment are observations based on existing knowledge of the enumerator about the situation and overall perceptions of local communities on the safety and security of their cities or towns.

medication?	followed when importing medication into the country,
Is medication illegal, if it is not registered?	Medication is legal because there is no registration process. One of the three respondents added that medication is legal because anyone can import medication or open a pharmacy without a licence from the Hirshabelle Ministry of Health.
Do you have a list of approved and/or essential drugs, and if so, who are responsible for the regulation of it?	Two out of the three facilities do not have a list of approved or essential drugs. One uses WHO or UNICEF guidelines, which the respondent said can be found online.
How often is it updated?	The facility using WHO or UNICEF's guidelines think they are updated every three to five years, but without certainty.
Can a contact to a person (email / phone) employed at the FMOH be established?	All three facilities surveyed stated there is no person responsible for regulating medication in Beledweyne. They all referred to the Ministry of Health of Hirshabelle State and/or the Federal Ministry of Health.

## 2.4 MEDICATION

Below is a comparative overview of the medications available at each of the three health facilities. “Available” means the medication is available at present time in the facility; “N/A”, that the medication is not available; “Partly available”, that the medication is not available at present time, but can be ordered within a given time frame.

All three facilities surveyed have a storage facility that includes electricity.

	Tabaarak Pharmacy	Hilaal Speciality Hospital	Hiiran Regional Hospital
Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Partly available: will arrive within 1 week	Partly available: will arrive in 2-3 weeks	N/A
Insulin injections: Intermediate-acting: Insulin isophane	N/A	N/A	N/A
Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	N/A	N/A	N/A
Oral hypoglycaemic agents/blood glucose lowering medication: Metformin	N/A	Available	N/A
Oral hypoglycaemic agents/blood glucose lowering medication: Gliclazide	N/A	N/A	N/A
Anti-psychotic medication: Olanzapine	N/A	N/A	N/A
Anti-psychotic medication: Chlorpromazine	Available	Available	Available
Anti-psychotic medication: Haloperidol	N/A	N/A	N/A
Anti-psychotic medication: Risperidone	N/A	N/A	N/A
Anti-psychotic medication: Clozapine	N/A	N/A	N/A
Anti-psychotic medication: Aripiprazole depot injection	N/A	N/A	N/A

	Tabaarak Pharmacy	Hilaal Speciality Hospital	Hiiran Regional Hospital
Antidepressant medication: Amitriptyline	Available	Available	Available
Antidepressant medication: Sertraline	N/A	N/A	N/A
Antidepressant medication: Fluoxetine	N/A	N/A	N/A
Post-traumatic stress disorder/sedative medication: Diazepam	N/A	Available	Available
Post-traumatic stress disorder/sedative medication: Lorazepam	N/A	N/A	N/A
Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Available	Available	Available
Medicines for pain management: Acetylsalicylic acid	Available	Available	Available
Medicines for pain management: Ibuprofen	Available	Available	Available
Medicines for pain management: Paracetamol	Available	Available	Available
Medicines for pain management: Morphine	N/A	N/A	N/A
Cardiac complications/heart failure: Digoxin	N/A	N/A	N/A
Cardiac complications/heart failure: Furosemide	Available	Available	Available
Cardiac complications/heart failure: Spironolactone	N/A	N/A	N/A
Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Available	Available	Available
Antithrombotic medicines/blood thinning medicine: Clopidogrel	N/A	N/A	N/A
Antithrombotic medicines/blood thinning	N/A	N/A	N/A

medicine: Warfarin			
	Tabaarak Pharmacy	Hilaal Speciality Hospital	Hiiran Regional Hospital
Anti-hypertensive medication/medication for lowering high blood pressure: Amlodipine	Available	Available	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Bisoprolol	N/A	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Enalapril	Partly available: will arrive within 2 weeks	Available	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	N/A	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	N/A	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Losartan	N/A	N/A	N/A
Anti-hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Available	Available	N/A
Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Available	Available	N/A
Antiretrovirals/HIV medicine: Dolutegravir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Efavirenz	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Nevirapine	N/A	N/A	N/A

	Tabaarak Pharmacy	Hilaal Speciality Hospital	Hiiran Regional Hospital
Antiretrovirals/HIV medicine: Ritonavir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Darunavir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Atazanavir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Atazanavir + ritonavir	N/A	N/A	N/A
Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	N/A	N/A	N/A
Combination tablets: Abacavir + lamivudine	N/A	N/A	N/A
Combination tablets: Dolutegravir + lamivudine + tenofovir	N/A	N/A	N/A
Combination tablets: Efavirenz + emtricitabine + tenofovir	N/A	N/A	N/A
Combination tablets: Efavirenz + lamivudine + tenofovir	N/A	N/A	N/A
Combination tablets: Emtricitabine + tenofovir	N/A	N/A	N/A
Combination tablets: Lamivudine + nevirapine + zidovudine	N/A	N/A	N/A
Combination tablets: Lamivudine + zidovudine	N/A	N/A	N/A
Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	N/A	N/A	N/A
Medicine for dialysis: Intraperitoneal dialysis solution	N/A	N/A	N/A

	Tabarak Pharmacy	Hilaal Speciality Hospital	Hiiran Regional Hospital
Medicine for inhalation: Formoterol	N/A	N/A	N/A
Medicine for inhalation: Budesonide	N/A	N/A	N/A
Medicine for inhalation: Fluticasone propionate	N/A	N/A	N/A
Tablets: Prednisolone	Available	Available	Available
Cancer: Which chemotherapy medications are available?	N/A	N/A	N/A
Is immunotherapy available and if so, which ones?	Prednisalone	Prednisalone	Prednisalone

For a detailed overview of medication prices per hospital, please refer to Table 1 attached. All currencies provided in this report are US dollars.

## 2.5 TREATMENT

Below is a comparative overview of the treatments available at the two hospitals - Tabaarak Pharmacy does not dispense any treatments. The respondents were asked to specify whether the treatment is fully, partly or not available in this facility. "Partly available" refers to treatments that are not available immediately at the hospital and requires on-call or visiting specialist doctors, or that only some of a listed set of treatments are available at present time.

	Hilaal Speciality Hospital	Hiiran Regional Hospital
Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Available	Available
Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	N/A	N/A
Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	N/A	N/A
Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self-use by patient	N/A	N/A
Diabetes type I & II: Medical devices internal medicine: blood glucose self-test strips for use by patient	Available	Available
Diabetes type I & II: Laboratory research of blood glucose (incl.: HbA1C/ glyco.Hb)	Partly available: only blood glucose available	Partly available: only blood glucose available
Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Partly available: only creatinin and ureum	Partly available: only creatinin and ureum
Diabetes type I & II: Medical devices internal medicine: insulin pump	N/A	N/A
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist	N/A	N/A

	Hilaal Speciality Hospital	Hiiran Regional Hospital
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	N/A	N/A
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	N/A	N/A
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	N/A	N/A
Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	N/A	N/A
Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	N/A	N/A
Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	N/A	N/A
Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	N/A	N/A
Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	N/A	N/A
Kidney transplant: Transplantation of kidney including all pre- and aftercare	N/A	N/A
Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Partly available: only creatinin and ureum available	Partly available: only creatinin and ureum available
Liver transplant: Outpatient treatment and follow up	N/A	N/A

by a liver specialist (a hepatologist)		
	Hilaal Speciality Hospital	Hiiran Regional Hospital
Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	N/A	N/A
Liver transplant: Transplantation of liver including all pre- and aftercare	N/A	N/A
Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Partly available: only ASAT and ALAT are available	Partly available: only ASAT and ALAT are available
Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	N/A	N/A
Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	N/A	N/A
Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	N/A	N/A
Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	N/A	N/A
Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardio gram; cardiology)	Available	N/A
Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	N/A	N/A
HIV/AIDS: Inpatient treatment by a HIV specialist	N/A	N/A
HIV/AIDS: Outpatient treatment and follow up by a	N/A	N/A

HIV specialist		
HIV/AIDS: Laboratory research HIV: CD4 count	N/A	N/A
	Hilaal Speciality Hospital	Hiiran Regional Hospital
HIV/AIDS: Laboratory research HIV: viral load	N/A	N/A
HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	N/A	N/A
HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	N/A	N/A
Kidney diseases, including dialysis: Nephrology: chronic haemodialysis (3 times a week)	N/A	N/A
Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	N/A	N/A
Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	N/A	N/A
Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	N/A	N/A
Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	N/A	N/A
Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Partly available: only creatinine and ureum are available	Partly available: only creatinine and ureum are available
Cancer: Inpatient treatment by a cancer specialist (an oncologist)	Available - there is an oncologist who act as internal medicine specialist because there is no diagnosis equipment and necessary	N/A

	medicines	
Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	Available	N/A
Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Available	N/A
	Hilaal Speciality Hospital	Hiiran Regional Hospital
Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	N/A	N/A
Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	N/A	N/A
Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	N/A	N/A
Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	N/A	N/A
Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopaedist /orthopaedic surgeon)	N/A	N/A
Spine surgery: Surgery, specifically orthopaedic surgery of the spine	N/A	N/A
Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopaedist / orthopaedic surgeon)	N/A	N/A
Spine surgery: Anaesthesiology: pain management; e.g. branch block, spinal facet injection, epidural	N/A	N/A

injection		
Spine surgery: Outpatient treatment and follow up by a physical therapist	N/A	N/A
Tattoo removal services	N/A	N/A

For a detailed overview of treatment prices per hospital, please refer to Table 2 attached.

## **2.6 COST RECOVERY MECHANISMS AND PRICING**

The prices and dosages of individual medications and treatments, as well as pricing, can be found in Tables 1 and 2. The prices for the services offered at Hilaal Hospital are found to be beyond what most people in the areas can afford, especially those who have no employment or who work in wage-based sectors, i.e. the income source of casual labour by earning daily wages from working in the informal sector such as construction, washing clothes, cleaning, cooking, porters, etc. Likewise, the prices of medications sold at Tabaarak Pharmacy are quite expensive for the poorer sections of the populations, but not too high for the middle-class.

Each health facility was also asked about the existence of any cost recovery mechanisms. None of the facilities surveyed indicated that there are cost recovery mechanisms available.

**Appendix F**

# Content

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## Mogadishu – treatment, Wardi, Banadir, Erdogan Hospitals

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
<b>Diabetes type I &amp; II: Outpatient treatment and follow up by a general practitioner</b>	<b>Availability</b>	Available. Most of the procedures listed in the survey are not available in the hospital because it specialises in Mother and Child Healthcare.	<b>Diabetes type I &amp; II: Outpatient treatment and follow up by a general practitioner</b>	<b>Availability</b>	Available	<b>Diabetes type I &amp; II: Outpatient treatment and follow up by a general practitioner</b>	<b>Availability</b>	Available
	<b>Treatment price (incl. lab test)</b>	There is no price associated with all treatments in the hospital. Doctor consultations and all lab tests are free of charge.		<b>Treatment price (incl. lab test)</b>	All treatment, medications in stock and laboratory services in Banadir hospital are provided free of charge to the public.		<b>Treatment price (incl. lab test)</b>	\$5 for consultation and lab tests are separate from the consultation fees.
	<b>Reimbursement scheme</b>			<b>Reimbursement scheme</b>			<b>Reimbursement scheme</b>	
	<b>Included in price</b>			<b>Included in price</b>			<b>Included in price</b>	
<b>Diabetes type I &amp; II: Inpatient treatment by a specialist in diabetes (an endocrinologist )</b>	<b>Availability</b>	N/A	<b>Diabetes type I &amp; II: Inpatient treatment by a specialist in diabetes (an endocrinologist)</b>	<b>Availability</b>	N/A	<b>Diabetes type I &amp; II: Inpatient treatment by a specialist in diabetes (an endocrinologist)</b>	<b>Availability</b>	N/A. There is no endocrinologist in the hospital. Internal medicine doctors treat people suffering from Diabetes.
	<b>Treatment price (incl. lab test)</b>			<b>Treatment price (incl. lab test)</b>			<b>Treatment price (incl. lab test)</b>	
	<b>Reimbursement scheme</b>			<b>Reimbursement scheme</b>			<b>Reimbursement scheme</b>	
	<b>Included in price</b>			<b>Included in price</b>			<b>Included in price</b>	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist )	Availability	N/A	Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	Availability	N/A. An endocrinologist is not available in the hospital but GP doctors provide consultation services for Diabetes patients.
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	Patients pay \$40 per night when treated by a general practitioner.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	Partly available. The glucometer is used by hospital nurses to assist patients while in the hospital.	Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	The devices are not for sale at the hospital but available for the patients in the inpatient section if doctors instruct them to check their blood sugar on regular basis, and it is free of charge. Patients also leave the devices in the hospital when they are discharged.

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	Free
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: blood glucose self test strips for use by patient	Availability	Available	Diabetes type I & II: Medical devices internal medicine: blood glucose self test strips for use by patient	Availability	Partly available. The glucometer is used by hospital nurses to assist patients while in the hospital.	Diabetes type I & II: Medical devices internal medicine: blood glucose self test strips for use by patient	Availability	As above-mentioned - The strips comes with the device.
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	Partly available - HbA1C test is not available	Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	All listed lab services are available	Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	Free of charge		Treatment price (incl. lab test)	\$4 for all the listed lab tests.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Included in price			Included in price			Included in price	
Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	Partly available - electrolytes test is not available	Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	All listed lab services are available	Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	Free of charge		Treatment price (incl. lab test)	\$12.5 for all the listed lab tests.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: insulin pump	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: insulin pump	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: insulin pump	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	12\$ for consultation alone

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	Availability	N/A	Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	Availability	N/A	Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A	Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A	Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$12 per consultation session.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney transplant: Out patient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney transplant: Inpatient treatment by a kidney	Availability	N/A	Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
specialist (a nephrologist)	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney transplant: Transplantation of kidney including all pre- and aftercare	Availability	N/A	Kidney transplant: Transplantation of kidney including all pre- and aftercare	Availability	N/A	Kidney transplant: Transplantation of kidney including all pre- and aftercare	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	N/A	Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	All listed lab services are available	Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	Free of charge		Treatment price (incl. lab test)	\$13.5 for the listed lab tests.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Liver transplant: Out patient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A	Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A	Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	Partly available: only ASAT (=SGOT) and ALAT (=SGPT) are available in the hospital for patients but the remaining tests are not available in the hospital.	Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	Partly available: all listed lab services are available except transaminases	Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	Free of charge		Treatment price (incl. lab test)	\$3 for the listed lab tests
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$40 per night per patient.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	Availability	N/A	Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	Availability	N/A	Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$5 for the consultation alone.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$40 per patient per night
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	inclusive of all medications and treatment except imaging
Cardiac complications and hypertension: Outpatient treatment by a	Availability	N/A	Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	Availability	Available

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
heart specialist (a cardiologist)	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$5 for the consultation alone.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardio gram; cardiology)	Availability	N/A	Cardiac complications and hypertension: Diagno stic imaging by means of ECG (electro cardio gram; cardiology)	Availability	N/A	Cardiac complications and hypertension: Diagno stic imaging by means of ECG (electro cardio gram; cardiology)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$17 for the ECG
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	Availability	N/A	Cardiac complications and hypertension: Diagno stic imaging by means of ultrasound of the heart	Availability	N/A	Cardiac complications and hypertension: Diagno stic imaging by means of ultrasound of the heart	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$10 for the ultrasound imaging
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	N/A	HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	Partly available - General practitioner doctors are available in the HIV centre and act as HIV specialists.	HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	Partly available - General practitioner doctors are available in the HIV centre and act as HIV specialists.	HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Laboratory research HIV: CD4 count	Availability	N/A	HIV/AIDS: Laboratory research HIV: CD4 count	Availability	Available	HIV/AIDS: Laboratory research HIV: CD4 count	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	Free of charge		Treatment price (incl. lab test)	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Laboratory research HIV: viral load	Availability	N/A	HIV/AIDS: Laboratory research HIV: viral load	Availability	Available	HIV/AIDS: Laboratory research HIV: viral load	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	Free of charge		Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	Availability	Partly available - General practitioner doctors are available in the HIV centre and act as infectiologists.	HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	Availability	Partly available - General practitioner doctors are available in the HIV centre and act as infectiologists.	HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	Availability	N/A

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
diseases (an infectiologist)	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Nephrology: chronic hemodialysis (3 times a week)	Availability	N/A	Kidney diseases, including dialysis: Nephrology: chronic hemodialysis (3 times a week)	Availability	Partly available: the hemodialysis centre is constructed but not functional yet.	Kidney diseases, including dialysis: Nephrology: chronic hemodialysis (3 times a week)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$35X3 times = \$105 per week
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	Availability	N/A	Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	Availability	N/A	Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	Partly available: there is no nephrologist available in the hospital, but General Practitioner Doctors provide treatment for patients with kidney diseases when admitted to the inpatient section of the hospital.
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	All inpatient services cost a fixed price of \$40 per night
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	inclusive of all services except imaging services
Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	Partly available: there is no nephrologist outpatient services available in the hospital now but internal medicine doctors treat patients

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
								with kidney diseases.
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	consultation fee is \$5
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	N/A	Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	All listed lab tests are available	Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	Free of charge		Treatment price (incl. lab test)	\$6 for the listed lab tests.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum,	Availability	N/A	Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	All listed lab tests are available	Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	Available

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
proteinuria, sodium, potassium levels)	Treatment price (incl. lab test)			Treatment price (incl. lab test)	Free of charge		Treatment price (incl. lab test)	\$13.5 for the listed lab tests.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cancer: Inpatient treatment by a cancer specialist (an oncologist)	Availability	N/A	Cancer: Inpatient treatment by a cancer specialist (an oncologist)	Availability	N/A	Cancer: Inpatient treatment by a cancer specialist (an oncologist)	Availability	N/A. There is no oncologist in the hospital at the moment but general surgeons care for them
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	inpatient services cost \$40 per night
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	Availability	N/A	Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	Availability	N/A	Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	Availability	N/A. There is no oncologist in the hospital at the moment, but general surgeons treat cancer patients
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	consultation fees is \$5 per session
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Availability	All the tests are available	Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Availability	All listed lab tests are available	Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Availability	Available
	Treatment price (incl. lab test)	Free of charge		Treatment price (incl. lab test)	Free of charge		Treatment price (incl. lab test)	\$2 for the listed lab tests
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	All inpatient services cost \$40 per night per patient
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	inclusive of all medications, bed, meals and lab tests
Chronic obstructive lung disease: Outpatient treatment by a lung specialist	Availability	N/A	Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	Availability	Available

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
specialist (a pulmonologist)	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$5 for consultation and oxygen if needed.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Availability	N/A	Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Availability	Inhalers are used by the nurses when treating patients	Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	Free of charge		Treatment price (incl. lab test)	Free of charge for patients admitted to the hospital.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equi	Availability	Salbutamol puffs by mouth are available	Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	Availability	Inhalers are used by the nurses when treating patients	Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	Availability	Available

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
pment that turns liquid medicine into a mist	Treatment price (incl. lab test)	free of charge		Treatment price (incl. lab test)			Treatment price (incl. lab test)	Free of charge for patients admitted to the hospital.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	N/A	Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	N/A	Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$40 per night
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	inclusive of all lab and medications except imaging
Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	N/A	Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	N/A	Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	Available. Neurosurgeons conduct spine surgery but orthopaedic doctors conduct it when neurosurgeons

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
								are not available.
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	around \$1500 per operation
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopedist / orthopedic surgeon)	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopedist / orthopedic surgeon)	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopedist / orthopedic surgeon)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$5 in consultation fees per session.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Spine surgery: Anesthesia: pain management; e.g. branch block, spinal facet injection, epidural injection	Availability	N/A	Spine surgery: Anesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection	Availability	N/A	Spine surgery: Anesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$10 per operation
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Spine surgery: Outpatient treatment and follow up by a physical therapist	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a physical therapist	Availability	N/A.	Spine surgery: Outpatient treatment and follow up by a physical therapist	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$70 for 10 days.
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

## Mogadushu – treatment, Ladnan and Forlanini hospitals

Ladnan Hospital			Forlanini Hospital		
Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Availability	Available	Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Availability	N/A
	Treatment price (incl. lab test)	150-200\$ - per session inclusive of the consultation, follow-up, laboratory tests and medication.		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	Availability	N/A

Ladnan Hospital			Forlanini Hospital		
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	Available	Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	Available
	Treatment price (incl. lab test)	\$30 - \$40 per device		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	Measuring blood sugar levels is included in the inpatient price for mental health patients (\$100 - \$200 per month).
	Reimbursement scheme			Reimbursement scheme	N/A
	Included in price			Included in price	Bed, medication, hygiene kits, food and daily checking of sugar level
Diabetes type I & II: Medical devices internal medicine: blood glucose self test strips for use by patient	Availability	Available	Diabetes type I & II: Medical devices internal medicine: blood glucose self test strips for use by patient	Availability	Available
	Treatment price (incl. lab test)	\$13 per 50 strips		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	Blood glucose measuring strips is included in the inpatient price for mental health patients (\$100 - \$200 per month)

Ladnan Hospital			Forlanini Hospital		
	Reimbursement scheme			Reimbursement scheme	N/A
	Included in price			Included in price	Bed, medication, hygiene kits, food and daily checking of sugar level
Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	Available	Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	N/A
	Treatment price (incl. lab test)	\$12		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	Available	Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	N/A
	Treatment price (incl. lab test)	\$12		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	

Ladnan Hospital			Forlanini Hospital		
<b>Diabetes type I &amp; II: Medical devices internal medicine: insulin pump</b>	<b>Availability</b>	\$12 - \$15 per pump	<b>Diabetes type I &amp; II: Medical devices internal medicine: insulin pump</b>	<b>Availability</b>	N/A
	<b>Treatment price (incl. lab test)</b>			<b>Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)</b>	
	<b>Reimbursement scheme</b>			<b>Reimbursement scheme</b>	
	<b>Included in price</b>			<b>Included in price</b>	
<b>Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist</b>	<b>Availability</b>	N/A	<b>Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist</b>	<b>Availability</b>	Available
	<b>Treatment price (incl. lab test)</b>			<b>Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)</b>	\$5 for the Doctor Consultation
	<b>Reimbursement scheme</b>			<b>Reimbursement scheme</b>	N/A
	<b>Included in price</b>			<b>Included in price</b>	Doctor visit and follow up.
<b>Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist</b>	<b>Availability</b>	N/A	<b>Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist</b>	<b>Availability</b>	Available

Ladnan Hospital			Forlanini Hospital		
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	\$100 - \$200 (the price depends on the severity of cases and the level of care to be given to patients)
	Reimbursement scheme			Reimbursement scheme	N/A
	Included in price			Included in price	Bed, medication, hygiene kits, food and daily follow up from Doctor.
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	Avaiable
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	Free (included in the lumpsum price of inpateint services which is \$100 - \$200 per month).
	Reimbursement scheme			Reimbursement scheme	N/A
	Included in price			Included in price	Bed, medication, hygiene kits, food and daily follow up counselling from Doctor.
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	Available
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	\$5

Ladnan Hospital			Forlanini Hospital		
	Reimbursement scheme			Reimbursement scheme	N/A
	Included in price			Included in price	Counselling alone
Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	Availability	N/A	Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A	Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic	Availability	Avaiable

Ladnan Hospital			Forlanini Hospital		
	Treatment price (incl. lab test)		patients) by a psychiatrist	Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	\$5 - Patients see the doctor once a month after they are discharged from the hospital. Price is per visit.
	Reimbursement scheme			Reimbursement scheme	N/A
	Included in price			Included in price	Visit to Doctor
Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	Partly available - The Doctor stated that General Practitioners provide treatment for patients recovering from kidney transplantation if they are admitted to the Hospital.	Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)	500-1000\$ - per week		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	

Ladnan Hospital			Forlanini Hospital		
	Reimbursement scheme			Reimbursement scheme	
	Included in price	inclusive of daily follow-up check, lab tests, imaging, meals and prescriptions.		Included in price	
<b>Kidney transplant: Transplantation of kidney including all pre- and aftercare</b>	Availability	N/A	<b>Kidney transplant: Transplantation of kidney including all pre- and aftercare</b>	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
<b>Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)</b>	Availability	Available	<b>Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)</b>	Availability	N/A
	Treatment price (incl. lab test)	\$24 for all the listed lab tests		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	

Ladnan Hospital			Forlanini Hospital		
Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A	Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	

Ladnan Hospital			Forlanini Hospital		
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	Available	Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	N/A
	Treatment price (incl. lab test)	\$20 for all the listed lab tests		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	Availability	Available	Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	Availability	N/A
	Treatment price (incl. lab test)	500-1000\$ - per week		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price	inclusive of a daily follow-up check, required lab tests, imaging, meals, and prescriptions		Included in price	

Ladnan Hospital			Forlanini Hospital		
<b>Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)</b>	<b>Availability</b>	Available	<b>Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)</b>	<b>Availability</b>	N/A
	<b>Treatment price (incl. lab test)</b>	200-300\$ - per session		<b>Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)</b>	
	<b>Reimbursement scheme</b>			<b>Reimbursement scheme</b>	
	<b>Included in price</b>	inclusive of medications, follow-up, imaging and lab tests		<b>Included in price</b>	
<b>Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)</b>	<b>Availability</b>	Available	<b>Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)</b>	<b>Availability</b>	N/A
	<b>Treatment price (incl. lab test)</b>	1000-1500 - per week		<b>Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)</b>	
	<b>Reimbursement scheme</b>			<b>Reimbursement scheme</b>	

Ladnan Hospital			Forlanini Hospital		
	Included in price	Inclusive of daily follow-up check, medicines, meals, lab tests and necessary imaging		Included in price	
Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	Availability	Available	Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	Availability	N/A
	Treatment price (incl. lab test)	200-300\$ - per session		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price	Inclusive of the consultation fee, lab tests, imaging and medications		Included in price	
Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardio gram; cardiology)	Availability	Available	Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardio gram; cardiology)	Availability	N/A
	Treatment price (incl. lab test)	\$15 per ECG diagnostic imaging		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	

Ladnan Hospital			Forlanini Hospital		
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	Availability	Available	Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	Availability	N/A
	Treatment price (incl. lab test)	\$50 - \$60 per ultrasound diagnostic imaging		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	N/A	HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	N/A

Ladnan Hospital			Forlanini Hospital		
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
HIV/AIDS: Laboratory research HIV: CD4 count	Availability	N/A	HIV/AIDS: Laboratory research HIV: CD4 count	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
HIV/AIDS: Laboratory research HIV: viral load	Availability	N/A	HIV/AIDS: Laboratory research HIV: viral load	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	Availability	N/A

Ladnan Hospital			Forlanini Hospital		
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney diseases, including dialysis: Nephrology: chronic hemodialysis (3 times a week)	Availability	N/A	Kidney diseases, including dialysis: Nephrology: chronic hemodialysis (3 times a week)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	

Ladnan Hospital			Forlanini Hospital		
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	Availability	N/A	Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A. The Doctor stated that they refer all patients that require dialysis to Erdogan hospital	Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)	500-1000\$ - per week		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	

Ladnan Hospital			Forlanini Hospital		
	Included in price	Inclusive of daily follow-up check, meals, medicines, required lab tests, and imaging		Included in price	
Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A. The Doctor stated that they refer all patients that require dialysis to Erdogan hospital	Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)	200-300\$ - per session		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price	Including all imaging, tests and medication		Included in price	
Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	Available	Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	N/A
	Treatment price (incl. lab test)	\$26 for all the listed lab tests		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	

Ladnan Hospital			Forlanini Hospital		
Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	Available	Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	N/A
	Treatment price (incl. lab test)	\$14 for all the listed lab tests		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Cancer: Inpatient treatment by a cancer specialist (an oncologist)	Availability	N/A	Cancer: Inpatient treatment by a cancer specialist (an oncologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	Availability	N/A	Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	Availability	N/A

Ladnan Hospital			Forlanini Hospital		
	Treatment price (incl. lab test)			Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
<b>Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC &amp; platelets</b>	Availability	Available	<b>Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC &amp; platelets</b>	Availability	Partly available - only Hb test
	Treatment price (incl. lab test)	\$7 for all the listed lab tests		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	Lab test only
	Reimbursement scheme			Reimbursement scheme	N/A
	Included in price			Included in price	\$1
<b>Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)</b>	Availability	Partly available - The Doctor stated that they refer such cases to specialist clinics.	<b>Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)</b>	Availability	N/A
	Treatment price (incl. lab test)	500-1000\$ - per week		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	

Ladnan Hospital			Forlanini Hospital		
	Included in price	Inclusive of daily follow up check, medications, meals, lab tests, oxygen and imaging		Included in price	
Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	Availability	Partly available - The Doctor stated that they refer such cases to specialist clinics.	Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A
	Treatment price (incl. lab test)	200-300\$ - per session		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price	Inclusive of consultation fees, tests, oxygen, imaging and medications.		Included in price	
Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Availability	Available	Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Availability	N/A
	Treatment price (incl. lab test)	\$20 - \$25 per piece		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	

Ladnan Hospital			Forlanini Hospital		
	Included in price			Included in price	
Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	Availability	Available	Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	Availability	N/A
	Treatment price (incl. lab test)	\$60 - \$90 per session		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	Partly available: The doctor explained that visiting doctors come to Mogadishu from time to time and that they inform patients about these visiting doctors who charge below amount when they conduct the spine surgery operations.	Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	N/A
	Treatment price (incl. lab test)	2500-3500\$ per week		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	

Ladnan Hospital			Forlanini Hospital		
	Included in price	Inclusive of daily follow-up check by a specialist, medications, laboratory tests, meals and imaging		Included in price	
Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	Partly available: The doctor explained that visiting doctors come to Mogadishu from time to time and that they inform patients about these visiting doctors who charge below amount when they conduct the spine surgery operations.	Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	N/A
	Treatment price (incl. lab test)	3500-4500\$		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price	includes the operation fees, necessary imaging, meals and medications		Included in price	

Ladnan Hospital			Forlanini Hospital		
<b>Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopedist / orthopedic surgeon)</b>	<b>Availability</b>	Partly available: The doctor explained that visiting doctors come to Mogadishu from time to time and that they inform patients about these visiting doctors who charge below amount when they conduct the spine surgery operations.	<b>Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopedist / orthopedic surgeon)</b>	<b>Availability</b>	N/A
	<b>Treatment price (incl. lab test)</b>	300-450\$		<b>Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)</b>	
	<b>Reimbursement scheme</b>			<b>Reimbursement scheme</b>	
	<b>Included in price</b>	includes the consultation fees, medications, required imaging and tests		<b>Included in price</b>	
<b>Spine surgery: Anesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection</b>	<b>Availability</b>	Partly available - The Doctor stated that Anesthesiologists trained to conduct listed procedures are available on call and that they are usually notified one day before the operation.	<b>Spine surgery: Anesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection</b>	<b>Availability</b>	N/A
	<b>Treatment price (incl. lab test)</b>	\$230 - \$300 per operation		<b>Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)</b>	

Ladnan Hospital			Forlanini Hospital		
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
<b>Spine surgery: Outpatient treatment and follow up by a physical therapist</b>	Availability	N/A - The Doctor stated that they refer patients to physical therapists in other clinics and that there is no physiotherapist in Ladnan Hospital.	<b>Spine surgery: Outpatient treatment and follow up by a physical therapist</b>	Availability	N/A
	Treatment price (incl. lab test)	\$30 - \$35 per session		Treatment price, incl. lab test and consultation (registration fee, first visit with doctor, second visit with doctor)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	

## Mogadishu – medication, Wardi, Banadir, Erdogan hospitals

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Availability	N/A	Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Availability	The only available fast-acting insulin is human insulin	Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Availability	Available
	Generic name			Generic name			Generic name	Insulin aspart
	Brand name			Brand name	Maxtard 30 and Insulatard		Brand name	NOVARAPID
	Dosage			Dosage	10 ml each with 100 UI dose		Dosage	100 IU/3 ml
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box	Free of charge		Price per box	\$7 for 1 piece
Insulin injections: Intermediate-acting: Insulin isophane	Availability	N/A	Insulin injections: Intermediate-acting: Insulin isophane	Availability	N/A	Insulin injections: Intermediate-acting: Insulin isophane	Availability	Partly available: will arrive within three to four weeks
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability	N/A	Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability	N/A	Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability	Available
	Generic name			Generic name			Generic name	Insulin glargine
	Brand name			Brand name			Brand name	LANTUS
	Dosage			Dosage			Dosage	100 IU/3ml
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability	N/A	Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability	Available	Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability	Partly available: expected to arrive in two weeks, we have already ordered it before a month ago, but due to restrictions on movement caused by the COVID-19, medications come late recently. During the second visit to the hospital, the

WARDI Community Hospital			Banadir Hospital			Mogadishu Recep Tayyip Erdogan Training and Research Hospital		
								interviewed Doctor stated that medications that are out of stock would arrive in three to four weeks period. He also mentioned that it is not available in the Hospital inventory database (software) as long as the medication is not physically available in the pharmacy or the store. He promised that he would contact us as soon as the first shipment arrives to obtain dosages and brand names of out of stock medications. He further explained that medicines used to reach the hospital within one week before the suspension of all international flights to Somalia in March 2020.
	<b>Generic name</b>			<b>Generic name</b>			<b>Generic name</b>	
	<b>Brand name</b>			<b>Brand name</b>	GLUFORCE		<b>Brand name</b>	
	<b>Dosage</b>			<b>Dosage</b>	850mg		<b>Dosage</b>	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Form			Form			Form	
	# of units in container						# of units in container	
	Price per box						Price per box	
Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability	N/A	Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide				Availability	Partly Available: will arrive within three to four weeks
	Generic name						Generic name	
	Brand name						Brand name	
	Dosage						Dosage	
	Form						Form	
	# of units in container						# of units in container	
	Price per box						Price per box	
Anti-psychotic medication: Olanzapine	Availability	N/A	Anti-psychotic medication: Olanzapine				Availability	Available
	Generic name						Generic name	
	Brand name						Brand name	ZYZAPIN

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Dosage						Dosage	5/10mg dosages
	Form						Form	
	# of units in container						# of units in container	28 pills/pack
	Price per box						Price per box	\$4-5
Anti-psychotic medication: Chlorpromazine	Availability	N/A	Anti-psychotic medication: Chlorpromazine				Availability	Partly Available: will arrive within three to four weeks
	Generic name						Generic name	
	Brand name						Brand name	
	Dosage						Dosage	
	Form						Form	
	# of units in container						# of units in container	
	Price per box						Price per box	
Anti-psychotic medication: Haloperidol	Availability	Available	Anti-psychotic medication: Haloperidol				Availability	Available
	Generic name	Haloperidol					Generic name	
	Brand name						Brand name	NORODOL
	Dosage	5mg dose					Dosage	5mg dose
	Form						Form	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	# of units in container	100tab/container					# of units in container	50 pills/pack
	Price per box	Dispensed through prescription alone and free of charge					Price per box	\$4
Anti-psychotic medication: Risperidone	Availability	N/A	Anti-psychotic medication: Risperidone				Availability	Available
	Generic name						Generic name	
	Brand name						Brand name	RICUS
	Dosage						Dosage	2mg dose
	Form						Form	
	# of units in container						# of units in container	20 pills/pack
	Price per box						Price per box	\$5
Anti-psychotic medication: Clozapine	Availability	N/A	Anti-psychotic medication: Clozapine				Availability	Partly Available: will arrive within three to four weeks
	Generic name						Generic name	
	Brand name						Brand name	
	Dosage						Dosage	
	Form						Form	
	# of units in container						# of units in container	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Price per box						Price per box	
Anti-psychotic medication: Aripiprazole depot injection	Availability	N/A	Anti-psychotic medication: Aripiprazole depot injection				Availability	N/A
	Generic name						Generic name	
	Brand name						Brand name	
	Dosage						Dosage	
	Form						Form	
	# of units in container						# of units in container	
	Price per box						Price per box	
Antidepressant medication: Amitriptyline	Availability	N/A	Antidepressant medication: Amitriptyline				Availability	Available
	Generic name						Generic name	
	Brand name						Brand name	LAROXYL
	Dosage						Dosage	25mg; 10mg
	Form						Form	
	# of units in container						# of units in container	30 pills/pack
	Price per box						Price per box	\$3.5; \$5 for each dose respectively

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Antidepressant medication: Sertraline	Availability	N/A	Antidepressant medication: Sertraline				Availability	Available
	Generic name						Generic name	
	Brand name						Brand name	SELECTRA
	Dosage						Dosage	50mg
	Form						Form	
	# of units in container						# of units in container	28 pills/pack
	Price per box						Price per box	\$5
Antidepressant medication: Fluoxetine	Availability	N/A	Antidepressant medication: Fluoxetine				Availability	Partly Available: will arrive within three to four weeks
	Generic name						Generic name	
	Brand name						Brand name	
	Dosage						Dosage	
	Form						Form	
	# of units in container						# of units in container	
	Price per box						Price per box	
Post traumatic stress disorder/sedative medication: Diazepam	Availability	Available	Post traumatic stress disorder/sedative medication: Diazepam				Availability	Available

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	<b>Generic name</b>	Diazepam injection					<b>Generic name</b>	
	<b>Brand name</b>						<b>Brand name</b>	DIAZAM
	<b>Dosage</b>	10mg dose					<b>Dosage</b>	25mg dose
	<b>Form</b>						<b>Form</b>	
	<b># of units in container</b>	10 amp/box					<b># of units in container</b>	25 pills/pack
	<b>Price per box</b>	Dispensed free of charge					<b>Price per box</b>	\$2.5
<b>Post traumatic stress disorder/sedative medication: Lorazepam</b>	<b>Availability</b>	N/A	<b>Post traumatic stress disorder/sedative medication: Lorazepam</b>				<b>Availability</b>	Available
	<b>Generic name</b>						<b>Generic name</b>	
	<b>Brand name</b>						<b>Brand name</b>	LORANS
	<b>Dosage</b>						<b>Dosage</b>	1mg dose
	<b>Form</b>						<b>Form</b>	
	<b># of units in container</b>						<b># of units in container</b>	50 pills/pack
	<b>Price per box</b>						<b>Price per box</b>	\$5
<b>Immunosuppressive medication/lifelong treatment for patients who had organ transplantation</b>	<b>Availability</b>	Prednisolone tablets are used as immunosuppressive medication	<b>Immunosuppressive medication/lifelong treatment for patients who had organ transplantation</b>				<b>Availability</b>	N/A

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	<b>Generic name</b>			<b>Generic name</b>			<b>Generic name</b>	
	<b>Brand name</b>			<b>Brand name</b>			<b>Brand name</b>	
	<b>Dosage</b>			<b>Dosage</b>			<b>Dosage</b>	
	<b>Form</b>			<b>Form</b>			<b>Form</b>	
	<b># of units in container</b>			<b># of units in container</b>			<b># of units in container</b>	
	<b>Price per box</b>	Dispensed free of charge		<b>Price per box</b>	Dispensed free of charge		<b>Price per box</b>	
<b>Medicines for pain management: Acetylsalicylic acid</b>	<b>Availability</b>	Partly Available: expected to arrive in two weeks, we have already ordered it before a month ago, but due to restrictions on movement caused by the COVID-19, medications come late recently.	<b>Medicines for pain management: Acetylsalicylic acid</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Acetylsalicylic acid</b>	<b>Availability</b>	Partly Available: will arrive within three to four weeks
	<b>Generic name</b>			<b>Generic name</b>	Acetylsalicylic acid		<b>Generic name</b>	
	<b>Brand name</b>	Asprin		<b>Brand name</b>			<b>Brand name</b>	
	<b>Dosage</b>	300 mg		<b>Dosage</b>	75mg or 300mg		<b>Dosage</b>	
	<b>Form</b>			<b>Form</b>			<b>Form</b>	
	<b># of units in container</b>	1000 pills/contrianer		<b># of units in container</b>	100 pills/container		<b># of units in container</b>	
	<b>Price per box</b>	Dispensed free of charge		<b>Price per box</b>	Dispensed free of charge		<b>Price per box</b>	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
<b>Medicines for pain management: Ibuprofen</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Ibuprofen</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Ibuprofen</b>	<b>Availability</b>	Available
	<b>Generic name</b>	Ibuprofen		<b>Generic name</b>	Ibuprofen		<b>Generic name</b>	
	<b>Brand name</b>			<b>Brand name</b>			<b>Brand name</b>	SUPRAFEN
	<b>Dosage</b>	200mg dose		<b>Dosage</b>	200mg		<b>Dosage</b>	400mg dose
	<b>Form</b>			<b>Form</b>			<b>Form</b>	
	<b># of units in container</b>	100 pills/pack		<b># of units in container</b>	100 pills/container		<b># of units in container</b>	20 pills/pack
	<b>Price per box</b>	Dispensed free of charge		<b>Price per box</b>	Dispensed free of charge		<b>Price per box</b>	\$4
<b>Medicines for pain management: Paracetamol</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Paracetamol</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Paracetamol</b>	<b>Availability</b>	Available
	<b>Generic name</b>			<b>Generic name</b>	Paracetamol		<b>Generic name</b>	
	<b>Brand name</b>	Paramol		<b>Brand name</b>			<b>Brand name</b>	PAROL
	<b>Dosage</b>	500mg dose		<b>Dosage</b>	500mg		<b>Dosage</b>	500mg dose
	<b>Form</b>			<b>Form</b>			<b>Form</b>	
	<b># of units in container</b>	100 pills/pack		<b># of units in container</b>	100 pills/pack		<b># of units in container</b>	30 pills/pack
	<b>Price per box</b>	Dispensed free of charge		<b>Price per box</b>			<b>Price per box</b>	\$1

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
<b>Medicines for pain management: Morphine</b>	<b>Availability</b>	N/A	<b>Medicines for pain management: Morphine</b>	<b>Availability</b>	N/A	<b>Medicines for pain management: Morphine</b>	<b>Availability</b>	Available
	<b>Generic name</b>			<b>Generic name</b>			<b>Generic name</b>	
	<b>Brand name</b>			<b>Brand name</b>			<b>Brand name</b>	MORFINE
	<b>Dosage</b>			<b>Dosage</b>			<b>Dosage</b>	10mg dose
	<b>Form</b>			<b>Form</b>			<b>Form</b>	
	<b># of units in container</b>			<b># of units in container</b>			<b># of units in container</b>	1 piece (injection)
	<b>Price per box</b>			<b>Price per box</b>			<b>Price per box</b>	\$10
<b>Cardiac complications/heart failure: Digoxin</b>	<b>Availability</b>	N/A	<b>Cardiac complications/heart failure: Digoxin</b>	<b>Availability</b>	Available	<b>Cardiac complications/heart failure: Digoxin</b>	<b>Availability</b>	Available
	<b>Generic name</b>			<b>Generic name</b>			<b>Generic name</b>	
	<b>Brand name</b>			<b>Brand name</b>	LANOXIN Injection		<b>Brand name</b>	DEIGOXIN
	<b>Dosage</b>			<b>Dosage</b>	0.5mg		<b>Dosage</b>	0.25mg dose
	<b>Form</b>			<b>Form</b>			<b>Form</b>	
	<b># of units in container</b>			<b># of units in container</b>	5 ampoules/box		<b># of units in container</b>	50 pills/pack
	<b>Price per box</b>			<b>Price per box</b>	Dispensed free of charge		<b>Price per box</b>	\$2.5

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Cardiac complications/heart failure: Furosemide	Availability	Available	Cardiac complications/heart failure: Furosemide	Availability	Available	Cardiac complications/heart failure: Furosemide	Availability	Available
	Generic name			Generic name			Generic name	
	Brand name	Frusemide		Brand name	DESAL		Brand name	DESAL
	Dosage	20mg dose		Dosage	40mg		Dosage	50mg dose
	Form			Form			Form	
	# of units in container	10 amp/box		# of units in container	50 pills/pack		# of units in container	50 pills/pack
	Price per box	Dispensed free of charge		Price per box	Dispensed free of charge		Price per box	\$3
Cardiac complications/heart failure: Spironolactone	Availability	N/A	Cardiac complications/heart failure: Spironolactone	Availability	N/A	Cardiac complications/heart failure: Spironolactone	Availability	Available
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	ALDACTONE
	Dosage			Dosage			Dosage	100mg
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	16 pills/pack
	Price per box			Price per box			Price per box	\$4

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Availability	Partly available: expected to arrive in two weeks	Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Availability	Available	Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Availability	Partly available: will arrive within three to four weeks
	Generic name			Generic name	Acetylsalicylic acid		Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage	75mg or 300mg		Dosage	
	Form			Form			Form	
	# of units in container			# of units in container	100 pills/container		# of units in container	
	Price per box			Price per box	Dispensed free of charge		Price per box	
Antithrombotic medicines/blood thinning medicine: Clopidogrel	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Clopidogrel	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Clopidogrel	Availability	Available
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	KARUM
	Dosage			Dosage			Dosage	75mg dose
	Form			Form			Form	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	# of units in container			# of units in container			# of units in container	28 pills/pack
	Price per box			Price per box			Price per box	\$8
Antithrombotic medicines/blood thinning medicine: Warfarin	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Warfarin	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Warfarin	Availability	Partly Available: will arrive within three to four weeks
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability	Available
	Generic name			Generic name			Generic name	
	Brand name			Brand name	Amlodipine Besylate		Brand name	DILOPIN

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Dosage			Dosage	5mg		Dosage	5mg; 10mg
	Form			Form			Form	
	# of units in container			# of units in container	100 pills/pack		# of units in container	20 pills/pack
	Price per box			Price per box	Dispensed free of charge		Price per box	\$2 - \$3
Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability	Partly Available: will arrive within three to four weeks
	Generic name			Generic name	Bisoprolol		Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage	5mg		Dosage	
	Form			Form			Form	
	# of units in container			# of units in container	28 pills/pack		# of units in container	
	Price per box			Price per box	Dispensed free of charge		Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability	Partly Available: will arrive within three to four weeks
	Generic name			Generic name			Generic name	
	Brand name			Brand name	Enalapril Maleate		Brand name	
	Dosage			Dosage	5mg		Dosage	
	Form			Form			Form	
	# of units in container			# of units in container	100 pills/pack		# of units in container	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Price per box			Price per box	Dispensed free of charge		Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability	Partly available: it will take to arrive from one to two months.	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability	Partly Available: will arrive within three to four weeks
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability	Partly available: it will take to arrive from one to two months.	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability	Partly Available: will arrive within three to four weeks
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability	Partly available: it will take to arrive from one to two months.	Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability	Partly Available: will arrive within three to four weeks
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Availability	Partly available: it will take to arrive from one to two months.	Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Availability	Available
	Generic name			Generic name			Generic name	Available
	Brand name			Brand name			Brand name	SARILEN PLUS

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Dosage			Dosage			Dosage	50/12.5mg dose
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	28 pills/pack
	Price per box			Price per box			Price per box	\$5
Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Availability	N/A	Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Availability	N/A	Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Availability	Partly available: will arrive within three to four weeks
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Dolutegravir	Availability	N/A	Antiretrovirals/HIV medicine: Dolutegravir	Availability	Available	Antiretrovirals/HIV medicine: Dolutegravir	Availability	N/A
	Generic name			Generic name	Dolutegravir		Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage	50mg		Dosage	
	Form			Form			Form	
	# of units in container			# of units in container	30 pills/pack		# of units in container	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Price per box			Price per box	Dispensed free of charge		Price per box	
Antiretrovirals/HIV medicine: Efavirenz	Availability	N/A	Antiretrovirals/HIV medicine: Efavirenz	Availability	Available	Antiretrovirals /HIV medicine: Efavirenz	Availability	N/A
	Generic name			Generic name	Efavirenz		Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage	200mg		Dosage	
	Form			Form			Form	
	# of units in container			# of units in container	90 pills/pack		# of units in container	
	Price per box			Price per box	Dispensed free of charge		Price per box	
Antiretrovirals/HIV medicine: Nevirapine	Availability	N/A	Antiretrovirals/HIV medicine: Nevirapine	Availability	WHO decided to cease use of single medications as long as it is available in combination formula. Thus, this medication is not available at the moment.	Antiretrovirals /HIV medicine: Nevirapine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Ritonavir	Availability	N/A	Antiretrovirals /HIV medicine: Ritonavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Darunavir	Availability	N/A	Antiretrovirals/HIV medicine: Darunavir	Availability	N/A	Antiretrovirals /HIV medicine: Darunavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Antiretrovirals/HIV medicine: Atazanavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir	Availability	Partly available: it will take from three to four months to arrive because it depends on donations and supplies from partner organisations.	Antiretrovirals /HIV medicine: Atazanavir	Availability	N/A
	Generic name	N/A		Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability	Available	Antiretrovirals /HIV medicine: Atazanavir + ritonavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name	ATAZOR		Brand name	
	Dosage			Dosage	300mg/300mg		Dosage	
	Form			Form			Form	
	# of units in container			# of units in container	30 pills/pack		# of units in container	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Price per box			Price per box	Dispensed free of charge		Price per box	
Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability	N/A	Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability	N/A	Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Abacavir + lamivudine	Availability	N/A	Combination tablets: Abacavir + lamivudine	Availability	Available	Combination tablets: Abacavir + lamivudine	Availability	N/A
	Generic name			Generic name	Abacavir + lamivudine		Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage	60mg/30mg		Dosage	
	Form			Form			Form	
	# of units in container			# of units in container	60 pills/pack		# of units in container	
	Price per box			Price per box	Dispensed free of charge		Price per box	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability	N/A	Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability	Available	Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability	N/A
	Generic name			Generic name	Dolutegravir + lamivudine + tenofovir		Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage	50mg/300mg/300mg		Dosage	
	Form			Form			Form	
	# of units in container			# of units in container	30 pills/pack		# of units in container	
	Price per box			Price per box	Dispensed free of charge		Price per box	
Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability	Available	Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability	N/A
	Generic name			Generic name	Efavirenz + emtricitabine + tenofovir		Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage	300mg/600mg/200mg		Dosage	
	Form			Form			Form	
	# of units in container			# of units in container	60 pills/pack		# of units in container	
	Price per box			Price per box	Dispensed free of charge		Price per box	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
Combination tablets: Efavirenz + lamivudine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + lamivudine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + lamivudine + tenofovir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Emtricitabine + tenofovir	Generic name	N/A	Combination tablets: Emtricitabine + tenofovir	Generic name	N/A	Combination tablets: Emtricitabine + tenofovir	Generic name	N/A
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Lamivudine + nevirapine + zidovudine	Availability	N/A	Combination tablets: Lamivudine + nevirapine + zidovudine	Availability	Available	Combination tablets: Lamivudine + nevirapine +	Availability	N/A

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Generic name			Generic name	Lamivudine + nevirapine + zidovudine	zidovudine	Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage	150mg/200mg/300mg		Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box	Dispensed free of charge		Price per box	
Combination tablets: Lamivudine + zidovudine	Availability	N/A	Combination tablets: Lamivudine + zidovudine	Availability	Available	Combination tablets: Lamivudine + zidovudine	Availability	N/A
	Generic name			Generic name	Lamivudine + zidovudine		Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage	150mg/300mg		Dosage	
	Form			Form			Form	
	# of units in container			# of units in container	60 pills/pack		# of units in container	
	Price per box			Price per box	Dispensed free of charge		Price per box	
Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Availability	N/A	Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole +	Availability	Partly available: the only prevention medication available in the centre is Isoniazid tablets	Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine +	Availability	N/A

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Generic name		trimethoprim	Generic name		sulfamethoxazole + trimethoprim	Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage	300mg		Dosage	
	Form			Form			Form	
	# of units in container			# of units in container	672 pills/pack		# of units in container	
	Price per box			Price per box	Dispensed free of charge		Price per box	
Medicine for dialysis: Intraperitoneal dialysis solution	Availability	N/A	Medicine for dialysis: Intraperitoneal dialysis solution	Availability	N/A	Medicine for dialysis: Intraperitoneal dialysis solution	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
Price per box		Price per box		Price per box				
Medicine for inhalation: Formoterol	Availability	N/A	Medicine for inhalation: Formoterol	Availability	N/A	Medicine for inhalation: Formoterol	Availability	Available
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	EXTRAIR

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Dosage			Dosage			Dosage	400MCG - 12MCG
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	1 piece
	Price per box			Price per box			Price per box	\$15
Medicine for inhalation: Budesonide	Availability	N/A	Medicine for inhalation: Budesonide	Availability	N/A	Medicine for inhalation: Budesonide	Availability	Partly Available: will arrive within three to four weeks
	Generic name			Generic name	N/A		Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicine for inhalation: Fluticasone propionate	Availability	N/A	Medicine for inhalation: Fluticasone propionate	Availability	N/A	Medicine for inhalation: Fluticasone propionate	Availability	Partly Available: will arrive within three to four weeks
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	

WARDI Community Hospital			Banadir Hospital			Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital		
	Price per box			Price per box			Price per box	
Tablets: Prednisolone	Availability	Available	Tablets: Prednisolone	Availability	Available	Tablets: Prednisolone	Availability	Partly Available: will arrive within three to four weeks
	Generic name	Prednisolone tab		Generic name	Prednisolone		Generic name	
	Brand name			Brand name			Brand name	
	Dosage	5mg		Dosage	5mg		Dosage	
	Form			Form			Form	
	# of units in container	100 pills/pack		# of units in container	100 pills/pack		# of units in container	
	Price per box	Dispensed free of charge		Price per box	Dispensed free of charge		Price per box	
Cancer: available medications	Availability	N/A	Cancer: available medications	Availability	N/A	Cancer: available medications	Availability	N/A - hospital does not have an oncologist.
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

WARDI Community Hospital		Banadir Hospital		Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital	
Is immunotherapy available and if so, which ones?	N/A	Is immunotherapy available and if so, which ones?	N/A	Is immunotherapy available and if so, which ones?	N/A
If available, mention at least one facility/pharmacy where the availability information was obtained.	N/A	If available, mention at least one facility/pharmacy where the availability information was obtained.	N/A	If available, mention at least one facility/pharmacy where the availability information was obtained.	N/A

Mogadishu – medication, Ladnan Hospital, Somal Pharma

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
<b>Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human</b>	<b>Availability'</b>	Partly available: The medication is expected to arrive within one week from now.	<b>Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human</b>	<b>Availability'</b>	Available	<b>Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human</b>	<b>Availability'</b>	N/A
	<b>Generic name</b>	Only Insulin human is available.		<b>Generic name</b>	Insulin Human & Insulin Aspart		<b>Generic name</b>	
	<b>Brand name</b>	Mixtard & Actrapid		<b>Brand name</b>	Actrapid, Mixtard and Novomix		<b>Brand name</b>	
	<b>Dosage</b>			<b>Dosage</b>	100 IU/ml		<b>Dosage</b>	
	<b>Form</b>			<b>Form</b>	Injection & Flexipen (Novomix)		<b>Form</b>	
	<b># of units in container</b>	100 IU//ml		<b># of units in container</b>	1 per box		<b># of units in container</b>	
	<b>Price per box</b>	\$5-\$8 - The price is the average in the market but each costs \$5 in the Hospital Pharmacy.		<b>Price per box</b>	\$ 4.5 for each		<b>Price per box</b>	
<b>Insulin injections: Intermediate-acting: Insulin isophane</b>	<b>Availability'</b>	Partly available: The supply will arrive within one week from now.	<b>Insulin injections: Intermediate-acting: Insulin isophane</b>	<b>Availability'</b>	Available	<b>Insulin injections: Intermediate-acting: Insulin isophane</b>	<b>Availability'</b>	N/A
	<b>Generic name</b>			<b>Generic name</b>	Insulatard		<b>Generic name</b>	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Brand name			Brand name	Injection		Brand name	
	Dosage			Dosage	100 IU/ml		Dosage	
	Form			Form	Injection		Form	
	# of units in container	100 units		# of units in container	1 per box		# of units in container	
	Price per box	\$5-\$8		Price per box	\$4.5		Price per box	
Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability'	Partly available: The medication is expected to arrive within one week from now.	Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability'	N/A	Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container	100 units		# of units in container			# of units in container	
	Price per box	\$5-\$8		Price per box			Price per box	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability'	Available	Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability'	Available	Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability'	Available
	Generic name			Generic name	Metformin		Generic name	Metformin Hydrochloride
	Brand name			Brand name	Glifor		Brand name	Metformin
	Dosage	500 mg; 850 mg; 1000 mg dosages		Dosage	850 & 1000 mg		Dosage	500 mg
	Form			Form	Tablet		Form	Tablet
	# of units in container	60 pills/pack		# of units in container	100 pills/box		# of units in container	84 pills/box
	Price per box	\$2.5; \$3.5; \$4.5 for each dosage respectively		Price per box	\$4.5		Price per box	\$5.2
Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability'	Available	Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability'	Available	Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability'	N/A
	Generic name			Generic name	Gliclazide		Generic name	
	Brand name			Brand	Gliclazide		Brand name	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
				<b>name</b>				
	<b>Dosage</b>	30mg; 60 mg; 80mg dosages		<b>Dosage</b>	80 mg		<b>Dosage</b>	
	<b>Form</b>			<b>Form</b>	Tablet		<b>Form</b>	
	<b># of units in container</b>	60 pills/pack		<b># of units in container</b>	28 pills/box		<b># of units in container</b>	
	<b>Price per box</b>	\$3.5; \$4.5; \$5.5 for each respective dosage		<b>Price per box</b>	\$2.3		<b>Price per box</b>	
<b>Anti-psychotic medication: Olanzapine</b>	<b>Availability'</b>	Available	<b>Anti-psychotic medication: Olanzapine</b>	<b>Availability'</b>	Available	<b>Anti-psychotic medication: Olanzapine</b>	<b>Availability'</b>	Available
	<b>Generic name</b>			<b>Generic name</b>	Olanzapine		<b>Generic name</b>	Olanzapine
	<b>Brand name</b>			<b>Brand name</b>	Olanzapine		<b>Brand name</b>	Olanzapine
	<b>Dosage</b>	5 mg; 10 mg; 20 mg dosages		<b>Dosage</b>	5/10mg		<b>Dosage</b>	5mg/10mg
	<b>Form</b>			<b>Form</b>	Tablet		<b>Form</b>	Tablet
	<b># of units in container</b>	28 pills/pack		<b># of units in container</b>	28 pills/box		<b># of units in container</b>	28 pills/box
	<b>Price per box</b>	\$5; \$7; \$9 for each dosage respectively		<b>Price per box</b>	\$3.6 per box for each dose		<b>Price per box</b>	\$2.6 for 5mg & \$2.75 for 10mg
<b>Anti-psychotic medication: Chlorpromazine</b>	<b>Availability'</b>	Available	<b>Anti-psychotic medication: Chlorpromazine</b>	<b>Availability'</b>	Available	<b>Anti-psychotic medication: Chlorpromazine</b>	<b>Availability'</b>	Available

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	<b>Generic name</b>			<b>Generic name</b>	Chlorpromazine		<b>Generic name</b>	Chlorpromazine
	<b>Brand name</b>			<b>Brand name</b>	Chlorpromazine		<b>Brand name</b>	Chlorpromazine
	<b>Dosage</b>	25 mg; 50 mg; 100mg dosages		<b>Dosage</b>	100 mg		<b>Dosage</b>	100 mg tablet - 50 mg/ml injection
	<b>Form</b>			<b>Form</b>	Tablet		<b>Form</b>	Tablet and Injection
	<b># of units in container</b>	28 pills/pack		<b># of units in container</b>	100 pills/box		<b># of units in container</b>	100 pills/box & 10 ampoules/box
	<b>Price per box</b>	\$2; \$4; \$4.5 for each dosage respectively		<b>Price per box</b>	1.9 per box		<b>Price per box</b>	\$2 per box (tablet) & \$2.2 per box (injection)
<b>Anti-psychotic medication: Haloperidol</b>	<b>Availability'</b>	Available	<b>Anti-psychotic medication: Haloperidol</b>	<b>Availability'</b>	N/A	<b>Anti-psychotic medication: Haloperidol</b>	<b>Availability'</b>	Available
	<b>Generic name</b>			<b>Generic name</b>			<b>Generic name</b>	Haloperidol
	<b>Brand name</b>			<b>Brand name</b>			<b>Brand name</b>	Haloperidol
	<b>Dosage</b>	5mg; 10mg dosages		<b>Dosage</b>			<b>Dosage</b>	5 mg & 5 mg/ml
	<b>Form</b>			<b>Form</b>			<b>Form</b>	Tablet and Injection

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	# of units in container	28 pills/pack		# of units in container			# of units in container	100 pills/box & 5 pieces/box
	Price per box	\$5; \$8 for each dose respectively		Price per box			Price per box	\$4 per box (tablet) & \$3.5 per box (injection)
Anti-psychotic medication: Risperidone	Availability'	Available	Anti-psychotic medication: Risperidone	Availability'	Available	Anti-psychotic medication: Risperidone	Availability'	Available
	Generic name			Generic name	Risperidone		Generic name	Risperidone
	Brand name			Brand name	Risperidone		Brand name	Risperidone
	Dosage	1mg; 2mg; 3mg dosages		Dosage	2/4 mg		Dosage	1 mg / 2 mg
	Form			Form	Tablet		Form	Tablet
	# of units in container	28 pills/pack		# of units in container	30 pills/box		# of units in container	20 pills/box
	Price per box	\$2.5; \$3.5; \$4.5 for each dose respectively		Price per box	\$1.3 and \$1.4 for each dosage respectively.		Price per box	\$1.8 for 1mg & \$2 for 2mg
Anti-psychotic medication: Clozapine	Availability'	Available	Anti-psychotic medication: Clozapine	Availability'	N/A	Anti-psychotic medication: Clozapine	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Dosage	100mg dose		Dosage			Dosage	
	Form			Form			Form	
	# of units in container	28 pills/pack		# of units in container			# of units in container	
	Price per box	\$8		Price per box			Price per box	
Anti-psychotic medication: Aripiprazole depot injection	Availability'	N/A	Anti-psychotic medication: Aripiprazole depot injection	Availability'	N/A	Anti-psychotic medication: Aripiprazole depot injection	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antidepressant medication: Amitriptyline	Availability'	Available	Antidepressant medication: Amitriptyline	Availability'	Available	Antidepressant medication: Amitriptyline	Availability'	Available
	Generic name			Generic name	Amitriptyline		Generic name	Amitriptyline
	Brand name			Brand name	Amitriptyline		Brand name	Amitriptyline
	Dosage	10mg; 25mg dosages		Dosage	25 mg		Dosage	10 mg / 25mg

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	<b>Form</b>			<b>Form</b>	Tablet		<b>Form</b>	Tablet
	<b># of units in container</b>	28 pills/pack		<b># of units in container</b>	100 pills/box or 28 pills/box		<b># of units in container</b>	100 pills/box
	<b>Price per box</b>	\$5; \$8 for each dose respectively		<b>Price per box</b>	\$1.4 and \$1.3 per box respectively.		<b>Price per box</b>	\$1.3 for 25mg & \$1.5 for 10mg
<b>Antidepressant medication: Sertraline</b>	<b>Availability'</b>	Available	<b>Antidepressant medication: Sertraline</b>	<b>Availability'</b>	N/A	<b>Antidepressant medication: Sertraline</b>	<b>Availability'</b>	N/A
	<b>Generic name</b>			<b>Generic name</b>			<b>Generic name</b>	
	<b>Brand name</b>			<b>Brand name</b>			<b>Brand name</b>	
	<b>Dosage</b>	25mg; 50 mg; 100mg dosages		<b>Dosage</b>			<b>Dosage</b>	
	<b>Form</b>			<b>Form</b>			<b>Form</b>	
	<b># of units in container</b>	28 pills/pack		<b># of units in container</b>			<b># of units in container</b>	
	<b>Price per box</b>	\$5; \$6; \$7.5 for each dose respectively		<b>Price per box</b>			<b>Price per box</b>	
<b>Antidepressant medication: Fluoxetine</b>	<b>Availability'</b>	Available	<b>Antidepressant medication: Fluoxetine</b>	<b>Availability'</b>	Available	<b>Antidepressant medication: Fluoxetine</b>	<b>Availability'</b>	Available
	<b>Generic name</b>			<b>Generic name</b>	Fluoxetine		<b>Generic name</b>	Fluoxetine
	<b>Brand name</b>			<b>Brand name</b>	Fluoxetine		<b>Brand name</b>	Fluoxetine
	<b>Dosage</b>	20mg dose		<b>Dosage</b>	20 mg		<b>Dosage</b>	20mg
	<b>Form</b>			<b>Form</b>	Capsules		<b>Form</b>	Capsules

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	# of units in container	28 pills/pack		# of units in container	30 capsules/box		# of units in container	28 capsules/box
	Price per box	\$7.5		Price per box	\$1.3 per box		Price per box	\$5.7/box
Post traumatic stress disorder/sedative medication: Diazepam	Availability'	Available	Post traumatic stress disorder/sedative medication: Diazepam	Availability'	Available	Post traumatic stress disorder/sedative medication: Diazepam	Availability'	Available
	Generic name			Generic name	Diazepam		Generic name	Diazepam
	Brand name			Brand name	Diazepam		Brand name	Diazepam
	Dosage	2mg; 5mg; 10mg dosages		Dosage	5 mg		Dosage	5/10 mg/ml
	Form			Form	Tablet		Form	Injection
	# of units in container	28 pills/pack		# of units in container	30 pills/box		# of units in container	10 ampoules/box
	Price per box	\$2; \$2.5; \$3 for each dose respectively		Price per box	\$5 per box		Price per box	\$5
Post traumatic stress disorder/sedative medication: Lorazepam	Availability'	Available	Post traumatic stress disorder/sedative medication: Lorazepam	Availability'	Available	Post traumatic stress disorder/sedative medication: Lorazepam	Availability'	Available
	Generic name			Generic name	Lorazepam		Generic name	Lorazepam
	Brand name			Brand	Lorans		Brand name	Lorans

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Dosage	1/2mg dosages		name			Dosage	1/2mg
	Form			Dosage	1/2mg		Form	Tablet
	# of units in container	50 pills/pack		Form	Tablet		# of units in container	50 pills/box
	Price per box	\$5		# of units in container	50 pills/box		Price per box	\$3.2 for 1mg & \$3.5 for 2mg
Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Availability'	N/A	Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Availability'	N/A	Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicines for pain management: Acetylsalicylic acid	Availability'	Available	Medicines for pain management: Acetylsalicylic acid	Availability'	Available	Medicines for pain management: Acetylsalicylic acid	Availability'	Available
	Generic name			Generic name	Acetylsalicylic acid		Generic name	Acetylsalicylic acid
	Brand name			Brand name	Aspricarlo		Brand name	Aspirin
	Dosage	75mg; 81mg; 100mg; 150mg; 300mg dosages		Dosage	81 mg		Dosage	300 mg
	Form			Form	Tablet		Form	Tablet

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	# of units in container	28 pills/pack		# of units in container	30 pills/box		# of units in container	200 pills/box
	Price per box	\$5 - \$10 depending on the dosage		Price per box	\$1.3 per box		Price per box	\$1.8
Medicines for pain management: Ibuprofen	Availability'	Available	Medicines for pain management: Ibuprofen	Availability'	Available	Medicines for pain management: Ibuprofen	Availability'	Available
	Generic name			Generic name	Ibuprofen		Generic name	Ibuprofen
	Brand name			Brand name	Ibuprofen		Brand name	Ibuprofen
	Dosage	200mg; 400mg		Dosage	400 mg		Dosage	200 mg / 400 mg
	Form			Form	Tablet		Form	Tablet
	# of units in container	28 pills/pack		# of units in container	30 pills/box		# of units in container	100 pills/box
	Price per box	\$3		Price per box	\$3 per box		Price per box	\$0.85 each dose
Medicines for pain management: Paracetamol	Availability'	Available	Medicines for pain management: Paracetamol	Availability'	Available	Medicines for pain management: Paracetamol	Availability'	Available
	Generic name			Generic name	Paracetamol		Generic name	Paracetamol
	Brand name			Brand name	Paracetamol		Brand name	Paracetamol
	Dosage	250mg; 500mg dosages		Dosage	500mg		Dosage	500mg
	Form			Form	Tablet		Form	Tablet
	# of units in container	16 or 32 pills/pack		# of units in container	100 pills/box		# of units in container	100 pills/box

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Price per box	\$3.5		Price per box	\$0.6 per box		Price per box	\$3.5
Medicines for pain management: Morphine	Availability'	Available	Medicines for pain management: Morphine	Availability'	Available	Medicines for pain management: Morphine	Availability'	N/A
	Generic name			Generic name	Morphine		Generic name	
	Brand name			Brand name	Morphine		Brand name	
	Dosage	10mg		Dosage	10mg		Dosage	
	Form			Form	Ampule		Form	
	# of units in container	1 piece (injection)		# of units in container	10 ampules /box		# of units in container	
	Price per box	\$15		Price per box	\$14		Price per box	
Cardiac complications/heart failure: Digoxin	Availability'	Available	Cardiac complications/heart failure: Digoxin	Availability'	Available	Cardiac complications/heart failure: Digoxin	Availability'	N/A
	Generic name			Generic name	Digoxin		Generic name	
	Brand name			Brand name	Digoxin		Brand name	
	Dosage	0.25mg dose		Dosage	0.25 mg		Dosage	
	Form			Form	Tablet		Form	
	# of units in container	28 pills/pack		# of units in container	50 pills/box		# of units in container	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Price per box	\$2		Price per box	\$2.2		Price per box	
Cardiac complications/heart failure: Furosemide	Availability'	Available	Cardiac complications/heart failure: Furosemide	Availability'	Available	Cardiac complications/heart failure: Furosemide	Availability'	N/A
	Generic name			Generic name	Furosemide		Generic name	
	Brand name			Brand name	Furosemide		Brand name	
	Dosage	20mg; 40mg dosages		Dosage	20/40 mg		Dosage	
	Form			Form	Tablet		Form	
	# of units in container	28 pills/pack		# of units in container	50 pills/box		# of units in container	
	Price per box	\$2.5		Price per box	\$1.1 per box		Price per box	
Cardiac complications/heart failure: Spironolactone	Availability'	Available	Cardiac complications/heart failure: Spironolactone	Availability'	Available	Cardiac complications/heart failure: Spironolactone	Availability'	N/A
	Generic name			Generic name	Spironolactone		Generic name	
	Brand name			Brand name	Spironolactone		Brand name	
	Dosage	50mg; 100mg dosages		Dosage	50/100mg		Dosage	
	Form			Form	Tablet		Form	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	<b># of units in container</b>	30 pills/pack		<b># of units in container</b>	28 pills/box		<b># of units in container</b>	
	<b>Price per box</b>	\$5; \$8 for each dose respectively		<b>Price per box</b>	\$1.1 per box for each dose		<b>Price per box</b>	
<b>Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid</b>	<b>Availability'</b>	Available	<b>Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid</b>	<b>Availability'</b>	Available	<b>Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid</b>	<b>Availability'</b>	Available
	<b>Generic name</b>			<b>Generic name</b>	Acetylsalicylic acid		<b>Generic name</b>	Acetylsalicylic acid
	<b>Brand name</b>			<b>Brand name</b>	Aspricarlo		<b>Brand name</b>	Aspirin
	<b>Dosage</b>	75mg; 81mg; 100mg; 150mg; 300mg dosages		<b>Dosage</b>	81 mg		<b>Dosage</b>	300 mg
	<b>Form</b>			<b>Form</b>	Tablet		<b>Form</b>	Tablet
	<b># of units in container</b>	28 pills/pack		<b># of units in container</b>	30 pills/box		<b># of units in container</b>	200 pills/box
	<b>Price per box</b>	\$5 - \$10		<b>Price per box</b>	\$1.3 pills/box		<b>Price per box</b>	\$1.8
<b>Antithrombotic medicines/blood thinning medicine: Clopidogrel</b>	<b>Availability'</b>	Available	<b>Antithrombotic medicines/blood thinning medicine: Clopidogrel</b>	<b>Availability'</b>	Available	<b>Antithrombotic medicines/blood thinning medicine: Clopidogrel</b>	<b>Availability'</b>	N/A

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Generic name			Generic name	Clopidogrel		Generic name	
	Brand name			Brand name	Clopidogrel		Brand name	
	Dosage	7.5mg dose		Dosage	75 mg		Dosage	
	Form			Form	Tablet		Form	
	# of units in container	28 pills/pack		# of units in container	28 pills/box		# of units in container	
	Price per box	\$8		Price per box	\$2.2		Price per box	
<b>Antithrombotic medicines/blood thinning medicine: Warfarin</b>	Availability'	Available	<b>Antithrombotic medicines/blood thinning medicine: Warfarin</b>	Availability'	Available	<b>Antithrombotic medicines/blood thinning medicine: Warfarin</b>	Availability'	N/A
	Generic name			Generic name	Warfarin		Generic name	
	Brand name			Brand name	Warfarin		Brand name	
	Dosage	1mg; 3mg; 5mg dosages		Dosage	3/5mg		Dosage	
	Form			Form	Tablet		Form	
	# of units in container	28 pills/pack		# of units in container	28		# of units in container	
	Price per box	\$5 - \$6		Price per box	\$1.3 per box		Price per box	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability'	Available	Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability'	Available	Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability'	N/A
	Generic name			Generic name	Amlodipine		Generic name	
	Brand name			Brand name	Amlodipine		Brand name	
	Dosage	5mg; 10mg dosages		Dosage	5mg		Dosage	
	Form			Form	Tablet		Form	
	# of units in container	28 pills/pack		# of units in container	100 pills/box		# of units in container	
	Price per box	\$5; \$5.5 for each dosage respectively		Price per box	\$1.65		Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability'	Available	Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability'	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage	5mg; 10mg dosages		Dosage			Dosage	
	Form			Form			Form	
	# of units in container	28 pills/pack		# of units in container			# of units in container	
	Price per box	\$5; \$6 for each dose respectively		Price per box			Price per box	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability'	Available	Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability'	Available	Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability'	N/A
	Generic name			Generic name	Enalapril		Generic name	
	Brand name			Brand name	Enpril		Brand name	
	Dosage	5mg; 10mg; 20mg dosages		Dosage	5mg		Dosage	
	Form			Form	Tablet		Form	
	# of units in container	28 pills/pack		# of units in container	28 pills/box		# of units in container	
	Price per box	\$2.5; \$3.5; \$4.5 for each dose respectively		Price per box	\$2		Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability'	Available	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability'	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage	10/5mg or 20/5mg dosages		Dosage			Dosage	
	Form			Form			Form	
	# of units in container	28 pills/pack		# of units in container			# of units in container	
	Price per box	\$6.5		Price per box			Price per box	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability'	Available	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability'	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage	10/12.5mg or 20/12.5 dosages		Dosage			Dosage	
	Form			Form			Form	
	# of units in container	28 pills/pack		# of units in container			# of units in container	
	Price per box	\$5.5; \$7.5 for each dose respectively		Price per box			Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability'	Available	Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability'	Available	Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability'	N/A
	Generic name			Generic name	Losartan		Generic name	
	Brand name			Brand name	Cozaar		Brand name	
	Dosage	50 & 100mg dosages		Dosage	25mg		Dosage	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	<b>Form</b>			<b>Form</b>	Tablet		<b>Form</b>	
	<b># of units in container</b>	28 pills/pack		<b># of units in container</b>	28 pills/box		<b># of units in container</b>	
	<b>Price per box</b>	\$5.5		<b>Price per box</b>	\$4.2		<b>Price per box</b>	
<b>Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide</b>	<b>Availability'</b>	Available	<b>Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide</b>	<b>Availability'</b>	Available	<b>Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide</b>	<b>Availability'</b>	N/A
	<b>Generic name</b>			<b>Generic name</b>	Losartan + Hydrochlorothiazide		<b>Generic name</b>	
	<b>Brand name</b>			<b>Brand name</b>	Corditan		<b>Brand name</b>	
	<b>Dosage</b>	50/12.5mg dosages		<b>Dosage</b>	50/12.5mg		<b>Dosage</b>	
	<b>Form</b>			<b>Form</b>	Tablet		<b>Form</b>	
	<b># of units in container</b>	28 pills/pack		<b># of units in container</b>	28 pills/box		<b># of units in container</b>	
	<b>Price per box</b>	\$6		<b>Price per box</b>	\$2.2 per box		<b>Price per box</b>	
<b>Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin</b>	<b>Availability'</b>	N/A	<b>Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin</b>	<b>Availability'</b>	Available	<b>Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin</b>	<b>Availability'</b>	N/A
	<b>Generic name</b>			<b>Generic name</b>	Simvastatin		<b>Generic name</b>	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Brand name			Brand name	Simvastatin		Brand name	
	Dosage			Dosage	10/20/40mg		Dosage	
	Form			Form	Tablet		Form	
	# of units in container			# of units in container	20 pills/box		# of units in container	
	Price per box			Price per box	\$ 1 per box for each dose		Price per box	
Antiretrovirals/HIV medicine: Dolutegravir	Availability'	N/A	Antiretrovirals/HIV medicine: Dolutegravir	Availability'	N/A	Antiretrovirals/HIV medicine: Dolutegravir	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Efavirenz	Availability'	N/A	Antiretrovirals/HIV medicine: Efavirenz	Availability'	N/A	Antiretrovirals/HIV medicine: Efavirenz	Availability'	N/A
	Generic name			Generic name			Generic name	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Nevirapine	Availability'	N/A	Antiretrovirals/HIV medicine: Nevirapine	Availability'	N/A	Antiretrovirals/HIV medicine: Nevirapine	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Ritonavir	Availability'	N/A	Antiretrovirals/HIV medicine: Ritonavir	Availability'	N/A	Antiretrovirals/HIV medicine: Ritonavir	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Darunavir	Availability'	N/A	Antiretrovirals/HIV medicine: Darunavir	Availability'	N/A	Antiretrovirals/HIV medicine: Darunavir	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Atazanavir	Availability'	N/A	Antiretrovirals/HIV medicine: Atazanavir	Availability'	N/A	Antiretrovirals/HIV medicine: Atazanavir	Availability'	N/A
	Generic name	N/A		Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability'	N/A	Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability'	N/A	Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability'	N/A	Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability'	N/A	Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Abacavir + lamivudine	Availability'	N/A	Combination tablets: Abacavir + lamivudine	Availability'	N/A	Combination tablets: Abacavir + lamivudine	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability'	N/A	Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability'	N/A	Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability'	N/A	Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability'	N/A	Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Efavirenz + lamivudine + tenofovir	Availability'	N/A	Combination tablets: Efavirenz + lamivudine + tenofovir	Availability'	N/A	Combination tablets: Efavirenz + lamivudine + tenofovir	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand			Brand name	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
				name				
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Emtricitabine + tenofovir	Generic name	N/A	Combination tablets: Emtricitabine + tenofovir	Generic name	N/A	Combination tablets: Emtricitabine + tenofovir	Generic name	N/A
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
Price per box		Price per box		Price per box				
Combination tablets: Lamivudine + nevirapine + zidovudine	Availability <sup>1</sup>	N/A	Combination tablets: Lamivudine + nevirapine + zidovudine	Availability <sup>1</sup>	N/A	Combination tablets: Lamivudine + nevirapine + zidovudine	Availability <sup>1</sup>	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Lamivudine + zidovudine	Availability'	N/A	Combination tablets: Lamivudine + zidovudine	Availability'	N/A	Combination tablets: Lamivudine + zidovudine	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Availability'	N/A	Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine +	Availability'	N/A	Medicines for prevention of HIV-related opportunistic infections: Isoniazid +	Availability'	N/A

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
	Generic name		sulfamethoxazole + trimethoprim	Generic name		pyridoxine + sulfamethoxazole + trimethoprim	Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicine for dialysis: Intraperitoneal dialysis solution	Availability'	N/A. This solution is not used now because there's a hemodialysis centre in the city.	Medicine for dialysis: Intraperitoneal dialysis solution	Availability'	N/A	Medicine for dialysis: Intraperitoneal dialysis solution	Availability'	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
<b>Medicine for inhalation: Formoterol</b>	<b>Availability'</b>	Available	<b>Medicine for inhalation: Formoterol</b>	<b>Availability'</b>	N/A	<b>Medicine for inhalation: Formoterol</b>	<b>Availability'</b>	N/A
	<b>Generic name</b>			<b>Generic name</b>			<b>Generic name</b>	
	<b>Brand name</b>			<b>Brand name</b>			<b>Brand name</b>	
	<b>Dosage</b>	200 or 400mcg dosages		<b>Dosage</b>			<b>Dosage</b>	
	<b>Form</b>			<b>Form</b>			<b>Form</b>	
	<b># of units in container</b>	1 piece		<b># of units in container</b>			<b># of units in container</b>	
	<b>Price per box</b>	\$17.5		<b>Price per box</b>			<b>Price per box</b>	
<b>Medicine for inhalation: Budesonide</b>	<b>Availability'</b>	Available	<b>Medicine for inhalation: Budesonide</b>	<b>Availability'</b>	N/A	<b>Medicine for inhalation: Budesonide</b>	<b>Availability'</b>	N/A
	<b>Generic name</b>			<b>Generic name</b>			<b>Generic name</b>	
	<b>Brand name</b>			<b>Brand name</b>			<b>Brand name</b>	
	<b>Dosage</b>	200 or 400mcg dosages		<b>Dosage</b>			<b>Dosage</b>	
	<b>Form</b>			<b>Form</b>			<b>Form</b>	
	<b># of units in container</b>	1 piece per pack		<b># of units in container</b>			<b># of units in container</b>	
	<b>Price per box</b>	\$17.5		<b>Price per box</b>			<b>Price per box</b>	

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
<b>Medicine for inhalation: Fluticasone propionate</b>	<b>Availability'</b>	Available	<b>Medicine for inhalation: Fluticasone propionate</b>	<b>Availability'</b>	N/A	<b>Medicine for inhalation: Fluticasone propionate</b>	<b>Availability'</b>	N/A
	<b>Generic name</b>			<b>Generic name</b>			<b>Generic name</b>	
	<b>Brand name</b>			<b>Brand name</b>			<b>Brand name</b>	
	<b>Dosage</b>	50mcg dosages		<b>Dosage</b>			<b>Dosage</b>	
	<b>Form</b>			<b>Form</b>			<b>Form</b>	
	<b># of units in container</b>	1 piece per pack		<b># of units in container</b>			<b># of units in container</b>	
	<b>Price per box</b>	\$20		<b>Price per box</b>			<b>Price per box</b>	
<b>Tablets: Prednisolone</b>	<b>Availability'</b>	Available	<b>Tablets: Prednisolone</b>	<b>Availability'</b>	Available	<b>Tablets: Prednisolone</b>	<b>Availability'</b>	Available
	<b>Generic name</b>			<b>Generic name</b>	Prednisolone		<b>Generic name</b>	Prednisolone
	<b>Brand name</b>			<b>Brand name</b>	Predilone		<b>Brand name</b>	Prednisolone
	<b>Dosage</b>	5mg dose		<b>Dosage</b>	5mg		<b>Dosage</b>	5mg
	<b>Form</b>			<b>Form</b>	Tablet		<b>Form</b>	Tablet
	<b># of units in container</b>	20 pills/pack		<b># of units in container</b>	100 per box		<b># of units in container</b>	1000 pills/container
	<b>Price per box</b>	\$2.5		<b>Price per box</b>	\$1.95		<b>Price per box</b>	\$4 per container

Ladnan Hospital			SOMAL Pharma Pharmacy			Forlanini Hospital		
<b>Cancer: available medications</b>	<b>Availability'</b>	Available	<b>Cancer: available medications</b>	<b>Availability'</b>	N/A	<b>Cancer: available medications</b>	<b>Availability'</b>	N/A
	<b>Generic name</b>	Sorafenib, Casodex (Bicalutamide), Hydroxyurea, and Tamoxifen.		<b>Generic name</b>			<b>Generic name</b>	
	<b>Brand name</b>			<b>Brand name</b>			<b>Brand name</b>	
	<b>Dosage</b>			<b>Dosage</b>			<b>Dosage</b>	
	<b>Form</b>			<b>Form</b>			<b>Form</b>	
	<b># of units in container</b>			<b># of units in container</b>			<b># of units in container</b>	
	<b>Price per box</b>			<b>Price per box</b>			<b>Price per box</b>	
<b>Is immunotherapy available and if so, which ones?</b>	N/A	<b>Is immunotherapy available and if so, which ones?</b>		N/A	<b>Is immunotherapy available and if so, which ones?</b>		N/A	
<b>If available, mention at least one facility/pharmacy where the availability information was obtained.</b>	N/A	<b>If available, mention at least one facility/pharmacy where the availability information was obtained.</b>		N/A	<b>If available, mention at least one facility/pharmacy where the availability information was obtained.</b>			

## Kismayo – treatment

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Availability	Available	Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Availability	Available	Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Availability	Available
	Treatment price (incl. lab test)	Free		Treatment price (incl. lab test)	\$ 30		Treatment price (incl. lab test)	\$ 35
	Reimbursement scheme	N/A		Reimbursement scheme	N/A		Reimbursement scheme	N/A
	Included in price			Included in price			Included in price	
Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Outpatient treatment and follow up by a specialist in	Availability	N/A

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Treatment price (incl. lab test)			Treatment price (incl. lab test)		diabetes (an endocrinologist)	Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	Available	Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$20		Treatment price (incl. lab test)	\$25
	Reimbursement scheme			Reimbursement scheme	N/A		Reimbursement scheme	N/A
	Included in price			Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: blood glucose self test strips for use by patient	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: blood glucose self test strips for use by patient	Availability	Available	Diabetes type I & II: Medical devices internal medicine: blood glucose self test strips for use by patient	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$30 (one box contains 50 pcs)		Treatment price (incl. lab test)	\$35 (one box contain 50 pcs)
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	Available	Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	Available	Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	Available
	Treatment price (incl. lab test)	Free		Treatment price (incl. lab test)	\$40		Treatment price (incl. lab test)	\$45
	Reimbursement scheme	N/A		Reimbursement scheme	N/A		Reimbursement scheme	N/A
	Included in price			Included in price			Included in price	
Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	Available	Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	Available	Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	Available
	Treatment price (incl. lab test)	Free		Treatment price (incl. lab test)	\$35		Treatment price (incl. lab test)	\$40
	Reimbursement scheme	N/A		Reimbursement scheme	N/A		Reimbursement scheme	N/A
	Included in price			Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: insulin pump	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: insulin pump	Availability	Available	Diabetes type I & II: Medical devices internal medicine: insulin pump	Availability	N/A

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$40		Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	N/A		Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic	Availability	N/A	Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	Availability	N/A	Psychotic disorders, depression and PTSD: special housing (like protected	Availability	N/A

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
patients with outpatient care	Treatment price (incl. lab test)			Treatment price (incl. lab test)		apartments) for chronic psychotic patients with outpatient care	Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A	Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A	Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney transplant: Transplantation of kidney including all pre- and aftercare	Availability	N/A	Kidney transplant: Transplantation of kidney including all pre- and aftercare	Availability	N/A	Kidney transplant: Transplantation of kidney including all pre- and aftercare	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	Available	Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	Available	Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	Available
	Treatment price (incl. lab test)	Free		Treatment price (incl. lab test)	\$40		Treatment price (incl. lab test)	\$40
	Reimbursement scheme	N/A		Reimbursement scheme	N/A		Reimbursement scheme	N/A
	Included in price			Included in price			Included in price	
Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A	Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A	Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	Available	Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	Available	Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	Available
	Treatment price (incl. lab test)	Free		Treatment price (incl. lab test)	\$35		Treatment price (incl. lab test)	\$40

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Reimbursement scheme	N/A		Reimbursement scheme	N/A	ALAT (=SGPT etc.)	Reimbursement scheme	N/A
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	Availability	N/A	Cardiac complications and hypertension : Inpatient treatment by an internal specialist (internist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	Availability	N/A (only General practitioner available)	Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	Availability	N/A (only General practitioner available)	Cardiac complications and hypertension : Outpatient treatment by an internal specialist (internist)	Availability	N/A (only General practitioner available)
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardiogram; cardiology)	Availability	Not available	Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardiogram; cardiology)	Availability	Available	Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardiogram; cardiology)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$60		Treatment price (incl. lab test)	\$70

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Reimbursement scheme			Reimbursement scheme	N/A	cardiology)	Reimbursement scheme	N/A
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	Availability	Available	Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	Availability	Available	Cardiac complications and hypertension : Diagnostic imaging by means of ultrasound of the heart	Availability	Available
	Treatment price (incl. lab test)	Free		Treatment price (incl. lab test)	\$50		Treatment price (incl. lab test)	\$60
	Reimbursement scheme	N/A		Reimbursement scheme	N/A		Reimbursement scheme	N/A
	Included in price			Included in price			Included in price	
HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	N/A	HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	N/A	HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	N/A

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Laboratory research HIV: CD4 count	Availability	Available	HIV/AIDS: Laboratory research HIV: CD4 count	Availability	Available	HIV/AIDS: Laboratory research HIV: CD4 count	Availability	Available
	Treatment price (incl. lab test)	FREE		Treatment price (incl. lab test)	\$ 20		Treatment price (incl. lab test)	\$ 25
	Reimbursement scheme	N/A		Reimbursement scheme	N/A		Reimbursement scheme	N/A
	Included in price			Included in price			Included in price	
HIV/AIDS: Laboratory research HIV: viral load	Availability	N/A	HIV/AIDS: Laboratory research HIV: viral load	Availability	N/A	HIV/AIDS: Laboratory research HIV: viral load	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist )	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist )	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Nephrology : chronic hemodialysis (3 times a week)	Availability	N/A	Kidney diseases, including dialysis: Nephrology: chronic hemodialysis (3 times a week)	Availability	N/A	Kidney diseases, including dialysis: Nephrology: chronic hemodialysis	Availability	N/A

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Treatment price (incl. lab test)			Treatment price (incl. lab test)		(3 times a week)	Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Nephrology : peritoneal dialysis/dialysis through the peritoneum	Availability	N/A	Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	Availability	N/A	Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	N/A	Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	Partly available - no dialysis but laboratory research for PTH, Calcium and phosphate are available	Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	Partly available - no dialysis but laboratory research for PTH, Calcium and Phosphate available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$50		Treatment price (incl. lab test)	\$55
	Reimbursement scheme			Reimbursement scheme	N/A		Reimbursement scheme	N/A
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	N/A	Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	Partly available - no dialysis but laboratory research for renal/kidney function (creatinin, ureum,proteinuria, sodium,	Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin,	Availability	Partly available - no dialysis but laboratory research for renal/kidney function (creatinin, ureum,proteinuria, sodium
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
					potassium) are available	<b>ureum, proteinuria, sodium, potassium levels)</b>		potassium) are available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$60		Treatment price (incl. lab test)	\$70
	Reimbursement scheme			Reimbursement scheme	N/A		Reimbursement scheme	N/A
	Included in price			Included in price			Included in price	
<b>Cancer: Inpatient treatment by a cancer specialist (an oncologist)</b>	Availability	N/A	<b>Cancer: Inpatient treatment by a cancer specialist (an oncologist)</b>	Availability	N/A	<b>Cancer: Inpatient treatment by a cancer specialist (an oncologist)</b>	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
<b>Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)</b>	Availability	N/A	<b>Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)</b>	Availability	N/A	<b>Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)</b>	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Included in price			Included in price			Included in price	
Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Availability	Available	Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Availability	Available	Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Availability	N/A
	Treatment price (incl. lab test)	Free		Treatment price (incl. lab test)	\$15		Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	N/A		Reimbursement scheme	
	Included in price			Included in price	All listed labs		Included in price	
Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Treatment price (incl. lab test)			Treatment price (incl. lab test)		specialist (a pulmonologist)	Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Availability	N/A	Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Availability	Available, supplied on demand.	Chronic obstructive lung disease: Medical devices pulmonology : spacer (with mask) for inhaler with asthma/KOL medication	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$150		Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	N/A		Reimbursement scheme	
	Included in price			Included in price			Included in price	
Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	Availability	N/A	Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	Availability	Partly available, supplied on demand.	Chronic obstructive lung disease: Medical devices pulmonology : nebulizer/equipment that turns liquid medicine into a mist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	\$170		Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	N/A		Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	N/A	Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	N/A	Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	N/A	Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	N/A	Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopedist /	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a specialist in	Availability	N/A

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
orthopedist / orthopedic surgeon)	Treatment price (incl. lab test)		orthopedic surgeon)	Treatment price (incl. lab test)		the impairment of the skeletal system (an orthopedist / orthopedic surgeon)	Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Spine surgery: Anesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection	Availability	N/A	Spine surgery: Anesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection	Availability	N/A	Spine surgery: Anesthesiology: pain management ; e.g. branch block, spinal facet injection, epidural injection	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Spine surgery: Outpatient treatment and follow up by a physical therapist	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a physical therapist	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a physical therapist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

## Kismayo - medication

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Availability	Available	Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Availability	Available	Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Availability	Available
	Generic name	fast acting Insulin		Generic name	Rapid insulin		Generic name	Rapid insulin
	Brand name	Actrapid		Brand name	Actrapid		Brand name	Actrapid
	Dosage	100 iu ml		Dosage	10ml		Dosage	10ml
	Form	Injection		Form	Injection		Form	Injection
	# of units in container	1000iu		# of units in container	1000iu		# of units in container	1000iu
	Price per box	free		Price per box	\$ 9		Price per box	\$ 10
Insulin injections: Intermediate-acting: Insulin isophane	Availability	N/A	Insulin injections: Intermediate-acting: Insulin isophane	Availability	N/A	Insulin injections: Intermediate-acting: Insulin isophane	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability	Available	Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability	Available	Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability	Available
	Generic name	Long acting Insulin		Generic name	Long acting Insulin		Generic name	Long acting Insulin
	Brand name	Insulatatard		Brand name	Insulatatard		Brand name	Insulatatard
	Dosage	10 uinit		Dosage	10 ml		Dosage	10 ml
	Form	Injection		Form	Injection		Form	Injection
	# of units in container	100iu		# of units in container	100 iu		# of units in container	100 iu
	Price per box	free		Price per box	\$100, one box contain ten pcs and each pcs cost \$10		Price per box	110, one box contain ten vials and each vials cost \$11
Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability	Available	Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability	Available	Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability	Available
	Generic name	Metformin		Generic name	Metformin		Generic name	Metformin
	Brand name	metformin		Brand name	Glucophage		Brand name	Glucophage
	Dosage	500		Dosage	500 mg		Dosage	500 mg
	Form	Tablet		Form	Tablet		Form	Tablet
	# of units in container	30		# of units in container	84		# of units in container	84 Pcs/box
	Price per box	free		Price per box	\$ 10		Price per box	\$ 10

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability	Available	Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability	Available	Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability	Available
	Generic name	Gliclazide		Generic name	Gliclazide		Generic name	Gliclazide
	Brand name	Glibenclamide		Brand name	Glibenclamide		Brand name	Glibenclamide
	Tablet	5mg		Dosage	5mg		Dosage	5mg
	Form	Tablet		Form	Tablet		Form	Tablet
	# of units in container	1000		# of units in container	60		# of units in container	60
	Price per box	free		Price per box	\$ 6		Price per box	\$ 7
Anti-psychotic medication: Olanzapine	Availability	N/A	Anti-psychotic medication: Olanzapine	Availability	N/A	Anti-psychotic medication: Olanzapine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Chlorpromazine	Availability	N/A	Anti-psychotic medication: Chlorpromazine	Availability	N/A	Anti-psychotic medication: Chlorpromazine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Halo peridol	Availability	N/A	Anti-psychotic medication: Haloper idol	Availability	N/A	Anti-psychotic medication: Haloper idol	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Risperidone	Availability	N/A	Anti-psychotic medication: Risperidone	Availability	N/A	Anti-psychotic medication: Risperidone	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Clozapine	Availability	N/A	Anti-psychotic medication: Clozapine	Availability	N/A	Anti-psychotic medication: Clozapine	Availability	N/A

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Aripiprazole depot injection	Availability	N/A	Anti-psychotic medication: Aripiprazole depot injection	Availability	N/A	Anti-psychotic medication: Aripiprazole depot injection	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
Price per box		Price per box		Price per box				
Antidepressant medication: Amitriptyline	Availability	N/A	Antidepressant medication: Amitriptyline	Availability	N/A	Antidepressant medication: Amitriptyline	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
Price per box		Price per box		Price per box				

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Antidepressant medication: Sertraline	Availability	N/A	Antidepressant medication: Sertraline	Availability	Available	Antidepressant medication: Sertraline	Availability	Available
	Generic name			Generic name	sertraline		Generic name	Sertraline
	Brand name			Brand name	sertraline		Brand name	Sertraline
	Dosage			Dosage	50mg		Dosage	50mg
	Form			Form	Tablet		Form	Tablet
	# of units in container			# of units in container	30 pcs		# of units in container	30 pcs
	Price per box			Price per box	\$ 9		Price per box	\$ 10
Antidepressant medication: Fluoxetine	Availability	N/A	Antidepressant medication: Fluoxetine	Availability	Available	Antidepressant medication: Fluoxetine	Availability	Available
	Generic name			Generic name	FLUOXETINE		Generic name	FLUOXETINE
	Brand name			Brand name	Problock		Brand name	Problock
	Dosage			Dosage	50MG		Dosage	50MG
	Form			Form	Tablet		Form	Tablet
	# of units in container			# of units in container	30		# of units in container	30
	Price per box			Price per box	\$ 10		Price per box	\$ 11
Post traumatic stress disorder/sedative medication: Diazepam	Availability	Available	Post traumatic stress disorder/sedative medication: Diazepam	Availability	Available	Post traumatic stress disorder/sedative medication: Diazepam	Availability	Available
	Generic name	Diazepam		Generic name	Diazepam		Generic name	Diazepam
	Brand name	Diaz		Brand name	Diaz		Brand name	Diaz
	Dosage	10mg		Dosage	10mg		Dosage	10mg
	Form	Injection		Form	Injection		Form	Injection

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	# of units in container	10		# of units in container	10		# of units in container	10
	Price per box	free		Price per box	\$ 10		Price per box	\$ 12
Post traumatic stress disorder/sedative medication: Lorazepam	Availability	N/A	Post traumatic stress disorder/sedative medication: Lorazepam	Availability	N/A	Post traumatic stress disorder/sedative medication: Lorazepam	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Availability	N/A	Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Availability	N/A	Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
<b>Medicines for pain management: Acetylsalicylic acid</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Acetylsalicylic acid</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Acetylsalicylic acid</b>	<b>Availability</b>	Available
	<b>Generic name</b>	ACETYLSALICYLIC		<b>Generic name</b>	ACETYLSALICYLIC		<b>Generic name</b>	ACETYLSALICYLIC
	<b>Brand name</b>	ASPIRIN		<b>Brand name</b>	ASPIRIN		<b>Brand name</b>	ASPIRIN
	<b>Dosage</b>	300		<b>Dosage</b>	300		<b>Dosage</b>	300
	<b>Form</b>	Tablet		<b>Form</b>	Tablet		<b>Form</b>	Tablet
	<b># of units in container</b>	1000		<b># of units in container</b>	1000		<b># of units in container</b>	1000
	<b>Price per box</b>	FREE		<b>Price per box</b>	\$ 15		<b>Price per box</b>	\$ 15
<b>Medicines for pain management: Ibuprofen</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Ibuprofen</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Ibuprofen</b>	<b>Availability</b>	Available
	<b>Generic name</b>	IBUPROFEN		<b>Generic name</b>	IBUPROFEN		<b>Generic name</b>	IBUPROFEN
	<b>Brand name</b>	IBUMAX		<b>Brand name</b>	IBUMAX		<b>Brand name</b>	IBUMAX
	<b>Dosage</b>	200		<b>Dosage</b>	400 MG		<b>Dosage</b>	400
	<b>Form</b>	Tablet		<b>Form</b>	Tablet		<b>Form</b>	Tablet
	<b># of units in container</b>	100		<b># of units in container</b>	100		<b># of units in container</b>	100
	<b>Price per box</b>	FREE		<b>Price per box</b>	\$ 3		<b>Price per box</b>	\$ 4
<b>Medicines for pain management: Paracetamol</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Paracetamol</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Paracetamol</b>	<b>Availability</b>	Available
	<b>Generic name</b>	PARACETAMOL		<b>Generic name</b>	PARACETAMOLE		<b>Generic name</b>	PARACETAMOLE
	<b>Brand name</b>	CETAMOL		<b>Brand name</b>	PARAMOL		<b>Brand name</b>	CETAMOL
	<b>Dosage</b>	500		<b>Dosage</b>	100		<b>Dosage</b>	500
	<b>Form</b>	Tablet		<b>Form</b>	Tablet		<b>Form</b>	Tablet

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	# of units in container	1000/		# of units in container	1000/100		# of units in container	20
	Price per box	FREE		Price per box	\$ 2		Price per box	\$ 3
Medicines for pain management: Morphine	Availability	N/A	Medicines for pain management: Morphine	Availability	N/A	Medicines for pain management: Morphine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Cardiac complications/heart failure: Digoxin	Availability	N/A	Cardiac complications/heart failure: Digoxin	Availability	Available	Cardiac complications/heart failure: Digoxin	Availability	Available
	Generic name			Generic name	Digoxine		Generic name	Digoxin
	Brand name			Brand name	Digoxin		Brand name	Digoxin
	Dosage			Dosage	0,25		Dosage	0,25
	Form			Form	Tablet		Form	Tablet
	# of units in container			# of units in container	30		# of units in container	30
	Price per box			Price per box	\$ 8		Price per box	\$ 10
Cardiac complications/heart failure: Furosemide	Availability	Available	Cardiac complications/heart failure: Furosemide	Availability	Available	Cardiac complications/heart failure: Furosemide	Availability	Available
	Generic name	FUROSEMIDE		Generic name	Furosemide		Generic name	Furosemide
	Brand name	FUROSEMIDE		Brand name	Furosemide		Brand name	Furosemide

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Dosage	80mg /40mg /20mg		Dosage	80mg/40mg/20 mg		Dosage	80mg/40mg/20 mg
	Form	Injection		Form	Injection		Form	Injection
	# of units in container	10		# of units in container	10		# of units in container	10
	Price per box	FREE		Price per box	\$ 5		Price per box	\$5
Cardiac complications/h eart failure: Spironolactone	Availability	N/A	Cardiac complications/heart failure: Spironolactone	Availability	Available	Cardiac complications/heart failure: Spironolactone	Availability	Available
	Generic name			Generic name	Spironolactone		Generic name	Spironolactone
	Brand name			Brand name	Aldactone		Brand name	Aldactone
	Dosage			Dosage	100mg/50mg/25		Dosage	100mg/50mg/25
	Form			Form	Tablet		Form	Tablet
	# of units in container			# of units in container	10		# of units in container	10
Price per box		Price per box	\$ 5	Price per box	\$ 5			
Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Availability	Available	Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Availability	Available	Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Availability	Available
	Generic name	ACETYLSALICYLIC		Generic name	acetylsalicylic acid		Generic name	acetylsalicylic acid
	Brand name	ASPIRIN		Brand name	ASPIRIN		Brand name	ASPIRIN
	Dosage	300		Dosage	300mg 150mg		Dosage	300mg 150mg
	Form	Tablet		Form	Tablet		Form	Tablet
	# of units in container	1000		# of units in container	1000 pcs		# of units in container	1000 pcs

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Price per box			Price per box	\$ 15		Price per box	\$ 15
Antithrombotic medicines/blood thinning medicine: Clopidogrel	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Clopidogrel	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Clopidogrel	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antithrombotic medicines/blood thinning medicine: Warfarin	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Warfarin	Availability	Available	Antithrombotic medicines/blood thinning medicine: Warfarin	Availability	Available
	Generic name			Generic name	WARFARIN		Generic name	WARFARIN
	Brand name			Brand name	WARFARIN		Brand name	WARFARIN
	Dosage			Dosage	50MG		Dosage	50MG
	Form			Form	Tablet		Form	Tablet
	# of units in container			# of units in container	30		# of units in container	30
	Price per box			Price per box	\$ 10		Price per box	\$ 11

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability	Partly available, will arrive within one week
	Generic name	AMLODIPINE		Generic name	Amlodipine		Generic name	Amlodipine
	Brand name	Amlodipine		Brand name	Amlodipine		Brand name	Amlodipine
	Dosage	5		Dosage	5MG		Dosage	5mg
	Form	Tablet		Form	Tablet		Form	Tablet
	# of units in container	30		# of units in container	30		# of units in container	30
	Price per box	FREE		Price per box	\$12		Price per box	\$10
Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability	Available
	Generic name			Generic name	Bisoprolol		Generic name	Bisoprolol
	Brand name			Brand name	Biso tab		Brand name	Biso tab
	Dosage			Dosage	5mg /2.5		Dosage	5mg /2.5
	Form			Form	Tablet		Form	Tablet
	# of units in container			# of units in container	30		# of units in container	30
	Price per box			Price per box	\$ 9		Price per box	\$ 10

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability	Available
	Generic name	ENALAPRIL		Generic name	Enalapril		Generic name	Enalapril
	Brand name	Korandil		Brand name	Enalapril		Brand name	Enalapril
	Dosage	5MG		Dosage	10mg 5mg		Dosage	10mg 5mg
	Form	Tablet		Form	Tablet		Form	Tablet
	# of units in container	30		# of units in container	30		# of units in container	30
	Price per box	FREE		Price per box	\$ 3,50		Price per box	\$ 4,00
Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability	Partly available, within two weeks	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability	Partly available, within one week
	Generic name			Generic name	Lisinopril+Amlodipine		Generic name	Lisinopril+Amlodipine
	Brand name			Brand name	Lisinopril+Amlodipine		Brand name	Lisinopril+Amlodipine
	Dosage			Dosage	5mg/		Dosage	5mg
	Form			Form	Tablet		Form	Tablet
	# of units in container			# of units in container	30		# of units in container	30
	Price per box			Price per box	\$40		Price per box	\$38

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability	Available
	Generic name			Generic name	Hydrochlorothiazide		Generic name	Hydrochlorothiazide
	Brand name			Brand name	Hydrochlorothiazide		Brand name	Hydrochlorothiazide
	Dosage			Dosage	50MG		Dosage	50MG
	Form			Form	Tablet		Form	Tablet
	# of units in container			# of units in container	100 pcs		# of units in container	100
	Price per box			Price per box	\$ 10		Price per box	\$ 10
Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability	N/A
	Generic name			Generic name	Losartan		Generic name	
	Brand name			Brand name	Losartan		Brand name	
	Dosage			Dosage	50mg		Dosage	
	Form			Form	Tablet		Form	
	# of units in container			# of units in container	28		# of units in container	
	Price per box			Price per box	\$7		Price per box	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Availability	Partly available, within one week	Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Availability	Partly available, within one week
	Generic name			Generic name	Losartan+Hydrochlorothiazide		Generic name	Losartan+Hydrochlorothiazide
	Brand name			Brand name	Losartan+Hydrochlorothiazide		Brand name	Losartan+Hydrochlorothiazide
	Dosage			Dosage	50mg		Dosage	50mg
	Form			Form	Tablet		Form	Tablet
	# of units in container			# of units in container	28		# of units in container	28
	Price per box			Price per box	\$9		Price per box	\$8
Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Availability	N/A	Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Availability	Available	Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Availability	Partly available, within one week
	Generic name			Generic name	Simvastatin		Generic name	Simvastatin
	Brand name			Brand name	Simvastatin		Brand name	Simvastatin
	Dosage			Dosage	20mg/10mg		Dosage	20mg/10mg
	Form			Form	Tablet		Form	Tablet
	# of units in container			# of units in container	28		# of units in container	28
	Price per box			Price per box	\$18		Price per box	\$20
Antiretrovirals/HIV medicine: Dolutegravir	Availability	Available	Antiretrovirals/HIV medicine: Dolutegravir	Availability	N/A	Antiretrovirals/HIV medicine: Dolutegravir	Availability	N/A
	Generic name	DOLUTEGRAVIR		Generic name			Generic name	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Brand name	DOLUTEGRAVIR		Brand name			Brand name	
	Dosage	50Mg		Dosage			Dosage	
	Form	Tablet		Form			Form	
	# of units in container	30		# of units in container			# of units in container	
	Price per box	FREE		Price per box			Price per box	
Antiretrovirals/HIV medicine: Efavirenz	Availability	Available	Antiretrovirals/HIV medicine: Efavirenz	Availability	N/A	Antiretrovirals/HIV medicine: Efavirenz	Availability	N/A
	Generic name	EFAVIRENZ		Generic name			Generic name	
	Brand name	EFAVIRENZ		Brand name			Brand name	
	Dosage	600MG		Dosage			Dosage	
	Form	Tablet		Form			Form	
	# of units in container	30		# of units in container			# of units in container	
	Price per box	FREE		Price per box			Price per box	
Antiretrovirals/HIV medicine: Nevirapine	Availability	Available	Antiretrovirals/HIV medicine: Nevirapine	Availability	N/A	Antiretrovirals/HIV medicine: Nevirapine	Availability	N/A
	Generic name	NEVIRAPINE		Generic name			Generic name	
	Brand name	NEVIRAPINE		Brand name			Brand name	
	Dosage	200MG		Dosage			Dosage	
	Form	Tablet		Form			Form	
	# of units in container	60		# of units in container			# of units in container	
	Price per box	FREE		Price per box			Price per box	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Antiretrovirals/HIV medicine: Ritonavir	Availability	Available	Antiretrovirals/HIV medicine: Ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Ritonavir	Availability	N/A
	Generic name	RETONARVIR		Generic name			Generic name	
	Brand name	LOP		Brand name			Brand name	
	Dosage	200mg		Dosage			Dosage	
	Form	Tablet		Form			Form	
	# of units in container	120		# of units in container			# of units in container	
	Price per box	FREE		Price per box			Price per box	
Antiretrovirals/HIV medicine: Darunavir	Availability	N/A	Antiretrovirals/HIV medicine: Darunavir	Availability	N/A	Antiretrovirals/HIV medicine: Darunavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Atazanavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability	Available	Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability	N/A	Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability	N/A
	Generic name	LOPINA VIR+RITONAVIR		Generic name			Generic name	
	Brand name	LOPINA VIR+RITONAVIR		Brand name			Brand name	
	Dosage	200/50		Dosage			Dosage	
	Form	Tablet		Form			Form	
	# of units in container	120		# of units in container			# of units in container	
	Price per box	FREE		Price per box			Price per box	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Combination tablets: Abacavir + lamivudine	Availability	Available	Combination tablets: Abacavir + lamivudine	Availability	N/A	Combination tablets: Abacavir + lamivudine	Availability	N/A
	Generic name	ABACAVIR+LA MIVUDIN		Generic name			Generic name	
	Brand name	ABACAVIR+LA MIVUDIN		Brand name			Brand name	
	Dosage	120 MG		Dosage			Dosage	
	Form	Tablet		Form			Form	
	# of units in container	60		# of units in container			# of units in container	
	Price per box	FREE		Price per box			Price per box	
Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability	Available	Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability	N/A	Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability	N/A
	Generic name	dolutegravir + lamivudine + tenofovir		Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage	50mg/300mg/300mg		Dosage			Dosage	
	Form	Tablet		Form			Form	
	# of units in container	30 pills		# of units in container			# of units in container	
	Price per box	Free		Price per box			Price per box	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Efavirenz + lamivudine + tenofovir	Availability	Available	Combination tablets: Efavirenz + lamivudine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + lamivudine + tenofovir	Availability	N/A
	Generic name	EFAVI+LAMIVUDINE+TENOFVIR		Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage	60/30		Dosage			Dosage	
	Form	Tablet		Form			Form	
	# of units in container	60		# of units in container			# of units in container	
	Price per box	FREE		Price per box			Price per box	
Combination tablets: Emtricitabine + tenofovir	Generic name	EMTRICITABINE +TENOFVIR	Combination tablets: Emtricitabine + tenofovir	Generic name	N/A	Combination tablets: Emtricitabine + tenofovir	Generic name	N/A
	Brand name			Brand name			Brand name	
	Dosage	600mg		Dosage			Dosage	
	Form	Tablet		Form			Form	
	# of units in container	100		# of units in container			# of units in container	
	Price per box	FREE		Price per box			Price per box	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Combination tablets: Lamivudine + nevirapine + zidovudine	Availability	Available	Combination tablets: Lamivudine + nevirapine + zidovudine	Availability	N/A	Combination tablets: Lamivudine + nevirapine + zidovudine	Availability	N/A
	Generic name	LAMIVUDINE NEVIRAPIN ZIDOVUDINE		Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage	120mg		Dosage			Dosage	
	Form	Tablet		Form			Form	
	# of units in container	60PCS		# of units in container			# of units in container	
	Price per box	FREE		Price per box			Price per box	
Combination tablets: Lamivudine + zidovudine	Availability	Available	Combination tablets: Lamivudine + zidovudine	Availability	N/A	Combination tablets: Lamivudine + zidovudine	Availability	N/A
	Generic name	LAMIVUDINE + ZIDOVUDINE		Generic name			Generic name	
	Brand name	LIMO		Brand name			Brand name	
	Dosage	200mg		Dosage			Dosage	
	Form	Tablet		Form			Form	
	# of units in container	120		# of units in container			# of units in container	
	Price per box	FREE		Price per box			Price per box	
Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Availability	N/A	Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Availability	N/A	Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Availability	N/A
	Generic name			Generic name			Generic name	

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicine for dialysis: Intraperitoneal dialysis solution	Availability	N/A	Medicine for dialysis: Intraperitoneal dialysis solution	Availability	N/A	Medicine for dialysis: Intraperitoneal dialysis solution	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
Price per box		Price per box		Price per box				
Medicine for inhalation: Formoterol	Availability	N/A	Medicine for inhalation: Formoterol	Availability	N/A	Medicine for inhalation: Formoterol	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
Price per box		Price per box		Price per box				
Medicine for inhalation: Budesonide	Availability	Available	Medicine for inhalation: Budesonide	Availability	Available	Medicine for inhalation: Budesonide	Availability	Available

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
	Generic name	FORMOTEROL		Generic name	FORMOTEROL		Generic name	FORMOTEROL
	Brand name	SALBUTAMOL INHALER		Brand name	SALBUTAMOL INHALER		Brand name	SALBUTAMOL INHALER
	Dosage	200mg		Dosage	200		Dosage	200mg
	Form	Inhalation		Form	Inhalation		Form	Inhalation
	# of units in container	10		# of units in container	10		# of units in container	10
	Price per box	FREE		Price per box	\$ 5		Price per box	\$ 4
Medicine for inhalation: Fluticasone propionate	Availability	N/A	Medicine for inhalation: Fluticasone propionate	Availability	Available	Medicine for inhalation: Fluticasone propionate	Availability	Available
	Generic name			Generic name	Fluticasone		Generic name	Fluticasone
	Brand name			Brand name	Fluticasone		Brand name	Fluticasone
	Dosage			Dosage	250/25mg		Dosage	250/25mg
	Form			Form	Inhalation		Form	Inhalation
	# of units in container			# of units in container	30		# of units in container	30
Price per box		Price per box	\$ 50	Price per box	\$ 60			
Tablets: Prednisolone	Availability	Available	Tablets: Prednisolone	Availability	Available	Tablets: Prednisolone	Availability	Available
	Generic name	PREDNISOLONE		Generic name	PREDNISOLONE		Generic name	PREDNISOLONE
	Brand name	PREDNISOLONE		Brand name	PREDNISOLONE		Brand name	PREDNISOLONE
	Dosage	5mg		Dosage	5mg		Dosage	5mg
	Form	Tablet		Form	Tabs		Form	Tabs
	# of units in container	1000		# of units in container	100		# of units in container	100
Price per box	FREE	Price per box	\$ 5	Price per box	\$ 5			

Facility 1-Kismayo General Hospital			Facility 2-Shaafici Diagnostic			Facility 3-Daryeel Hospital		
Cancer: available medications	Availability	N/A	Cancer: available medications	Availability	N/A	Cancer: available medications	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Is immunotherapy available and if so, which ones?	N/A	Is immunotherapy available and if so, which ones?	N/A	Is immunotherapy available and if so, which ones?	N/A			
If available, mention at least one facility/pharmacy where the availability information was obtained.		If available, mention at least one facility/pharmacy where the availability information was obtained.		If available, mention at least one facility/pharmacy where the availability information was obtained.				

## Baardheere – treatment

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Availability	Available	Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Availability	Available	Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Availability	Available
	Treatment price (incl. lab test)	\$3 for treatment, \$2 is lab test		Treatment price (incl. lab test)	free		Treatment price (incl. lab test)	\$4 for treatment \$2 for lab test
	Reimbursement scheme	N/A		Reimbursement scheme	N/A		Reimbursement scheme	
	Included in price			Included in price			Included in price	
Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	Availability	N/A

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: blood glucose self test strips for use by patient	Availability	Available	Diabetes type I & II: Medical devices internal medicine: blood glucose self test strips for use by patient	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: blood glucose self test strips for use by patient	Availability	N/A
	Treatment price (incl. lab test)	\$5		Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme	N/A		Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	N/A	Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	N/A	Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	N/A	Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	N/A	Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	Partly available - only creatinin and ureum tests are available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	creatinin (\$4), ureum (\$3)
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: insulin pump	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: insulin pump	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: insulin pump	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychiatrist	Availability	N/A (Note: the doctor stated that they treat patients with psychotic disorders with medicines like diazepam, amitriptyline, and carbamazine to support them in containing their situation but confirmed that there is no psychiatrist available in Bardhere)
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	Availability	N/A	Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	Availability	N/A	Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
	Reimbursement scheme			Reimbursement scheme		outpatient care	Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A	Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A	Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
	Treatment price (incl. lab test)			Treatment price (incl. lab test)		nephrologist)	Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney transplant: Transplantation of kidney including all pre- and aftercare	Availability	N/A	Kidney transplant: Transplantation of kidney including all pre- and aftercare	Availability	N/A	Kidney transplant: Transplantation of kidney including all pre- and aftercare	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria,	Availability	N/A	Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria,	Availability	N/A	Kidney transplant: Laboratory research of renal/kidney function (creatinin,	Availability	N/A

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
sodium, potassium levels)	Treatment price (incl. lab test)		sodium, potassium levels)	Treatment price (incl. lab test)		ureum, proteinuria, sodium, potassium levels)	Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A	Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A	Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
	Treatment price (incl. lab test)			Treatment price (incl. lab test)		aftercare	Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	N/A	Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	N/A	Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	Available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	ASAT (=SGOT) = \$5, ALAT (=SGPT) = \$5
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	Availability	N/A	Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	Availability	N/A	Cardiac complications and hypertension: Outpatient treatment by an	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
	Reimbursement scheme			Reimbursement scheme		internal specialist (internist)	Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardiogram; cardiology)	Availability	N/A	Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardiogram; cardiology)	Availability	N/A	Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardiogram; cardiology)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	Availability	N/A	Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	Availability	N/A	Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	N/A	HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	N/A	HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	N/A

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Laboratory research HIV: CD4 count	Availability	N/A	HIV/AIDS: Laboratory research HIV: CD4 count	Availability	N/A	HIV/AIDS: Laboratory research HIV: CD4 count	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
HIV/AIDS: Laboratory research HIV: viral load	Availability	N/A	HIV/AIDS: Laboratory research HIV: viral load	Availability	N/A	HIV/AIDS: Laboratory research HIV: viral load	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	Availability	N/A

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Nephrology : chronic hemodialysis (3 times a week)	Availability	N/A	Kidney diseases, including dialysis: Nephrology : chronic hemodialysis (3 times a week)	Availability	N/A	Kidney diseases, including dialysis: Nephrology: chronic hemodialysis (3 times a week)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Nephrology : peritoneal dialysis/dialysis through the peritoneum	Availability	N/A	Kidney diseases, including dialysis: Nephrology : peritoneal dialysis/dialysis through the peritoneum	Availability	N/A	Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	N/A	Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	N/A	Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
	Included in price			Included in price			Included in price	
Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	N/A	Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	N/A	Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	Partly available - only creatinin, ureum, and proteinuri tests are available
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	creatinin (\$4), ureum (\$3), proteinuri (\$3)
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cancer: Inpatient treatment by a cancer specialist (an oncologist)	Availability	N/A	Cancer: Inpatient treatment by a cancer specialist (an oncologist)	Availability	N/A	Cancer: Inpatient treatment by a cancer specialist (an oncologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	Availability	N/A	Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	Availability	N/A	Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Availability	Available	Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Availability	N/A	Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Availability	Partly available (only Hb is available in the facility)
	Treatment price (incl. lab test)	Hb (\$2) WBC (\$7)		Treatment price (incl. lab test)			Treatment price (incl. lab test)	Hb (\$2)
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
	Included in price			Included in price			Included in price	
Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Availability	N/A	Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Availability	N/A	Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid	Availability	N/A	Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid	Availability	N/A	Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid	Availability	N/A

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
medicine into a mist	Treatment price (incl. lab test)		medicine into a mist	Treatment price (incl. lab test)		liquid medicine into a mist	Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	N/A	Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	N/A	Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	N/A	Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	N/A	Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopedist / orthopedic surgeon)	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopedist / orthopedic surgeon)	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopedist / orthopedic surgeon)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Spine surgery: Anesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection	Availability	N/A	Spine surgery: Anesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection	Availability	N/A	Spine surgery: Anesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price			Included in price	
Spine surgery: Outpatient treatment and follow up by a physical therapist	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a physical therapist	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a physical therapist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme			Reimbursement scheme	

Facility 1 Hoosh Medical Centre			Facility 2 Bardhere General Hospital			Facility 3 Kulmiya Hospital		
	Included in price			Included in price			Included in price	

## Baardheere – medication

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Availability	N/A	Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Availability	N/A	Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Availability	Available
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	Humilin
	Dosage			Dosage			Dosage	100/120
	Form			Form			Form	Injection
	# of units in container			# of units in container			# of units in container	1 per box
	Price per box			Price per box			Price per box	\$6,50
Insulin injections: Intermediate-acting: Insulin isophane	Availability	N/A	Insulin injections: Intermediate-acting: Insulin isophane	Availability	N/A	Insulin injections: Intermediate-acting: Insulin isophane	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability	N/A	Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability	N/A	Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability	Available	Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability	Available	Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability	N/A
	Generic name	Metformin		Generic name	Metformin		Generic name	
	Brand name	Fortamet/Glumetza		Brand name	Glycomet		Brand name	
	Dosage	500mg		Dosage	500mg		Dosage	
	Form	Tab		Form	Tab		Form	
	# of units in container	28		# of units in container	28		# of units in container	
	Price per box	\$3,50		Price per box	Free		Price per box	
Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability	N/A	Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability	N/A	Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability	N/A

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Olanzapine	Availability	N/A	Anti-psychotic medication: Olanzapine	Availability	N/A	Anti-psychotic medication: Olanzapine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Chlorpromazine	Availability	N/A	Anti-psychotic medication: Chlorpromazine	Availability	N/A	Anti-psychotic medication: Chlorpromazine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Anti-psychotic medication: Haloperidol	Availability	N/A	Anti-psychotic medication: Haloperidol	Availability	N/A	Anti-psychotic medication: Haloperidol	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Risperidone	Availability	N/A	Anti-psychotic medication: Risperidone	Availability	N/A	Anti-psychotic medication: Risperidone	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Clozapine	Availability	N/A	Anti-psychotic medication: Clozapine	Availability	N/A	Anti-psychotic medication: Clozapine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Aripiprazole depot injection	Availability	N/A	Anti-psychotic medication: Aripiprazole depot injection	Availability	N/A	Anti-psychotic medication: Aripiprazole depot injection	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antidepressant medication: Amitriptyline	Availability	Available	Antidepressant medication: Amitriptyline	Availability	N/A	Antidepressant medication: Amitriptyline	Availability	Available
	Generic name	Amitriptyline		Generic name			Generic name	Amitriptyline
	Brand name	Amitrip/Elavil		Brand name			Brand name	Amitrip/Elavil
	Dosage	25mg		Dosage			Dosage	25mg
	Form	Tab		Form			Form	Tab
	# of units in container	100		# of units in container			# of units in container	100
	Price per box	\$4		Price per box			Price per box	\$5
Antidepressant medication: Sertraline	Availability	N/A	Antidepressant medication: Sertraline	Availability	N/A	Antidepressant medication: Sertraline	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antidepressant medication: Fluoxetine	Availability	N/A	Antidepressant medication: Fluoxetine	Availability	N/A	Antidepressant medication: Fluoxetine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Post traumatic stress disorder/sedative medication: Diazepam	Availability	Available	Post traumatic stress disorder/sedative medication: Diazepam	Availability	N/A	Post traumatic stress disorder/sedative medication: Diazepam	Availability	Available
	Generic name	Diazepam		Generic name			Generic name	Diazepam
	Brand name	Cozepam/Valtoco		Brand name			Brand name	Cozepam/Valtoco
	Dosage	5mg		Dosage			Dosage	5mg
	Form	Tab and injection		Form			Form	Tab and injection
	# of units in container	100 pieces		# of units in container			# of units in container	100 pieces
	Price per box	tab \$1.5 inj \$5		Price per box			Price per box	tab \$1 inj \$4

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Post traumatic stress disorder/sedative medication: Lorazepam	Availability	Available	Post traumatic stress disorder/sedative medication: Lorazepam	Availability	N/A	Post traumatic stress disorder/sedative medication: Lorazepam	Availability	Available
	Generic name	Lorazepam		Generic name			Generic name	Lorazepam
	Brand name	Lorans		Brand name			Brand name	Lorans
	Dosage	1mg		Dosage			Dosage	1mg
	Form	tab		Form			Form	tab
	# of units in container	50 tablets		# of units in container			# of units in container	50 tablets
	Price per box	\$5		Price per box			Price per box	\$7
Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Availability	N/A	Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Availability	N/A	Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicines for pain management: Acetylsalicylic acid	Availability	Available	Medicines for pain management: Acetylsalicylic acid	Availability	N/A	Medicines for pain management: Acetylsalicylic acid	Availability	Partly available: will arrive in 2-3 weeks

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
	Generic name	Acetylsalicylic acid		Generic name			Generic name	
	Brand name	Asprin		Brand name			Brand name	
	Dosage	75mg		Dosage			Dosage	
	Form	Tab		Form			Form	
	# of units in container	100 and 56		# of units in container			# of units in container	
	Price per box	\$3,50		Price per box			Price per box	
Medicines for pain management: Ibuprofen	Availability	Available	Medicines for pain management: Ibuprofen	Availability	Available	Medicines for pain management: Ibuprofen	Availability	Available
	Generic name	Nurofin		Generic name	Ibuoprofen		Generic name	Ibuoprofen
	Brand name	Bofen		Brand name	Norofen		Brand name	Norofen
	Dosage	400mg		Dosage	400		Dosage	400
	Form	tab		Form	Tab&Syrp		Form	Tab
	# of units in container	100		# of units in container	100		# of units in container	100
Price per box	\$4	Price per box	free	Price per box	\$1,50			
Medicines for pain management: Paracetamol	Availability	Available	Medicines for pain management: Paracetamol	Availability	Available	Medicines for pain management: Paracetamol	Availability	Available
	Generic name	Paracetamol		Generic name	Paracetamol		Generic name	Paracetamol
	Brand name	Paracetamol		Brand name	Panadol		Brand name	Panadol
	Dosage	500mg		Dosage	500/100		Dosage	500/100
	Form	Tab and inj		Form	Tab, Inj & Syrp		Form	Tab, Inj & Syrp
	# of units in container	100/1000		# of units in container	1000		# of units in container	1000
Price per box	Tab \$1 inj \$2	Price per box		Price per box	tab \$1 inj\$4 syr \$2			

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Medicines for pain management: Morphine	Availability	N/A	Medicines for pain management: Morphine	Availability	N/A	Medicines for pain management: Morphine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Cardiac complications/heart failure: Digoxin	Availability	N/A	Cardiac complications/heart failure: Digoxin	Availability	N/A	Cardiac complications/heart failure: Digoxin	Availability	Available
	Generic name			Generic name			Generic name	Digoxine
	Brand name			Brand name			Brand name	Lanoxin
	Dosage			Dosage			Dosage	0.25mg
	Form			Form			Form	Tab
	# of units in container			# of units in container			# of units in container	100
	Price per box			Price per box			Price per box	\$5
Cardiac complications/heart failure: Furosemide	Availability	N/A	Cardiac complications/heart failure: Furosemide	Availability	N/A	Cardiac complications/heart failure: Furosemide	Availability	Available
	Generic name			Generic name			Generic name	Furosemide
	Brand name			Brand name			Brand name	Lasix
	Dosage			Dosage			Dosage	10mg
	Form			Form			Form	inj
	# of units in			# of units in			# of units in	10

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
	container			container			container	
	Price per box			Price per box			Price per box	\$2,50
Cardiac complications/heart failure: Spironolactone	Availability	N/A	Cardiac complications/heart failure: Spironolactone	Availability	N/A	Cardiac complications/heart failure: Spironolactone	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Availability	Available	Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Availability	Partly available: will arrive in 2-3 weeks
	Generic name	Acetylsalicylic acid		Generic name			Generic name	
	Brand name	Asprin		Brand name			Brand name	
	Dosage	75mg		Dosage			Dosage	
	Form	Tab		Form			Form	
	# of units in container	100 and 56		# of units in container			# of units in container	
	Price per box	\$3,50		Price per box			Price per box	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Antithrombotic medicines/blood thinning medicine: Clopidogrel	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Clopidogrel	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Clopidogrel	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antithrombotic medicines/blood thinning medicine: Warfarin	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Warfarin	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Warfarin	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability	Availbale	Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability	Available
	Generic name	Amlodipine		Generic name			Generic name	Amlodipine
	Brand name	Norvasc/Katerzia		Brand name			Brand name	Norvasc/Katerzia
	Dosage	5mg/10mg		Dosage			Dosage	5mg/10mg
	Form	Tab		Form			Form	Tab
	# of units in container	28		# of units in container			# of units in container	28
	Price per box	\$3,50		Price per box			Price per box	\$3,50
Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Availability	Available	Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Availability	N/A	Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Availability	Available
	Generic name	Simvastatin		Generic name			Generic name	Simvastatin
	Brand name	Zocor/Lipitor		Brand name			Brand name	Lipitor
	Dosage	40mg		Dosage			Dosage	40mg
	Form	Tab		Form			Form	Tab
	# of units in container	28		# of units in container			# of units in container	28
	Price per box	\$4		Price per box			Price per box	\$4
Antiretrovirals/HIV medicine: Dolutegravir	Availability	N/A	Antiretrovirals/HIV medicine: Dolutegravir	Availability	N/A	Antiretrovirals/HIV medicine: Dolutegravir	Availability	N/A

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Efavirenz	Availability	N/A	Antiretrovirals/HIV medicine: Efavirenz	Availability	N/A	Antiretrovirals/HIV medicine: Efavirenz	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Nevirapine	Availability	N/A	Antiretrovirals/HIV medicine: Nevirapine	Availability	N/A	Antiretrovirals/HIV medicine: Nevirapine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Ritonavir	Availability	N/A

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Darunavir	Availability	N/A	Antiretrovirals/HIV medicine: Darunavir	Availability	N/A	Antiretrovirals/HIV medicine: Darunavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
Price per box		Price per box		Price per box				
Antiretrovirals/HIV medicine: Atazanavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
Price per box		Price per box		Price per box				

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability	N/A	Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability	N/A	Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Abacavir + lamivudine	Availability	N/A	Combination tablets: Abacavir + lamivudine	Availability	N/A	Combination tablets: Abacavir + lamivudine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
	Price per box			Price per box			Price per box	
Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability	N/A	Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability	N/A	Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Combination tablets: Efavirenz + lamivudine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + lamivudine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + lamivudine + tenofovir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Emtricitabine + tenofovir	Generic name	N/A	Combination tablets: Emtricitabine + tenofovir	Generic name	N/A	Combination tablets: Emtricitabine + tenofovir	Generic name	N/A
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Lamivudine + nevirapine + zidovudine	Availability	N/A	Combination tablets: Lamivudine + nevirapine + zidovudine	Availability	N/A	Combination tablets: Lamivudine + nevirapine + zidovudine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Lamivudine + zidovudine	Availability	N/A	Combination tablets: Lamivudine + zidovudine	Availability	N/A	Combination tablets: Lamivudine + zidovudine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Availability	N/A	Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Availability	N/A	Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
Medicine for dialysis: Intraperitoneal dialysis solution	Availability	N/A	Medicine for dialysis: Intraperitoneal dialysis solution	Availability	N/A	Medicine for dialysis: Intraperitoneal dialysis solution	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicine for inhalation: Formoterol	Availability	N/A	Medicine for inhalation: Formoterol	Availability	N/A	Medicine for inhalation: Formoterol	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicine for inhalation: Budesonide	Availability	N/A	Medicine for inhalation: Budesonide	Availability	N/A	Medicine for inhalation: Budesonide	Availability	N/A

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicine for inhalation: Fluticasone propionate	Availability	N/A	Medicine for inhalation: Fluticasone propionate	Availability	N/A	Medicine for inhalation: Fluticasone propionate	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
Price per box		Price per box		Price per box				
Tablets: Prednisolone	Availability	Availbale	Tablets: Prednisolone	Availability	Partly available - will arrive in 4-6 weeks	Tablets: Prednisolone	Availability	Available
	Generic name	Prednisolone		Generic name	Prednisolone		Generic name	Prednisolone
	Brand name	Cortilone-5		Brand name	Prednisolone		Brand name	Prelone
	Dosage	5mg		Dosage	5mg		Dosage	5mg

Hoosh Medical Centre			Bardhera General Hospital			Kulmiya Hospital		
	Form	Tab		Form			Form	Tab
	# of units in container	100		# of units in container	100 tablets		# of units in container	100
	Price per box	\$2,50		Price per box	Free		Price per box	\$3
Cancer: available medications	Availability	N/A	Cancer: available medications	Availability	N/A	Cancer: available medications	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Is immunotherapy available and if so, which ones?			Is immunotherapy available and if so, which ones?			Is immunotherapy available and if so, which ones?		
If available, mention at least one facility/pharmacy where the availability information was obtained.			If available, mention at least one facility/pharmacy where the availability information was obtained.			If available, mention at least one facility/pharmacy where the availability information was obtained.		

## Belet Wayne – treatment

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Availability	Available	Diabetes type I & II: Outpatient treatment and follow up by a general practitioner	Availability	Available
	Treatment price (incl. lab test)	\$3 visit fee		Treatment price (incl. lab test)	Free
	Reimbursement scheme	N/A		Reimbursement scheme	N/A
	Included in price	Only doctor consultation		Included in price	
Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Inpatient treatment by a specialist in diabetes (an endocrinologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	Availability	N/A	Diabetes type I & II: Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: blood glucose meter for self use by patient	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: blood glucose self test	Availability	Available	Diabetes type I & II: Medical devices internal medicine: blood glucose self test	Availability	Available

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
strips for use by patient	Treatment price (incl. lab test)	\$3	test strips for use by patient	Treatment price (incl. lab test)	free
	Reimbursement scheme	N/A		Reimbursement scheme	N/A
	Included in price	Only strips		Included in price	
Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	Partly available - only blood glucose	Diabetes type I & II: Laboratory research of blood glucose (incl: HbA1C/ glyc.Hb)	Availability	Partly available - only blood glucose
	Treatment price (incl. lab test)	\$2		Treatment price (incl. lab test)	Free
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	Partly available - only creatinin and Ureum are available	Diabetes type I & II: Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Availability	Partly available - only creatinin and Ureum are available
	Treatment price (incl. lab test)	\$6 (\$3 for each test)		Treatment price (incl. lab test)	free
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Diabetes type I & II: Medical devices internal medicine: insulin pump	Availability	N/A	Diabetes type I & II: Medical devices internal medicine: insulin pump	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities	Availability	N/A

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
by psychiatrist	Treatment price (incl. lab test)		by psychiatrist	Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychiatrist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Inpatient treatment possibilities by psychologist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	N/A	Psychotic disorders, depression and PTSD: Outpatient treatment possibilities by psychologist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	Availability	N/A	Psychotic disorders, depression and PTSD: special housing (like protected apartments) for chronic psychotic patients with outpatient care	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Included in price			Included in price	
Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A	Psychotic disorders, depression and PTSD: assisted living / care at home by psychiatric nurse	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Availability	N/A	Psychotic disorders, depression and PTSD: Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney transplant: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney transplant: Transplantation of kidney including all pre- and aftercare	Availability	N/A	Kidney transplant: Transplantation of kidney including all pre- and aftercare	Availability	N/A

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	Partly available - only creatinin and ureum	Kidney transplant: Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	Partly available - only creatinin and ureum
	Treatment price (incl. lab test)	6\$ for the two available tests combined		Treatment price (incl. lab test)	Free
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Outpatient treatment and follow up by a liver specialist (a hepatologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A	Liver transplant: Inpatient treatment by a liver specialist (a hepatologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A	Liver transplant: Transplantation of liver including all pre- and aftercare	Availability	N/A
	Treatment price (incl. lab test)			Treatment price	

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	lab test)			(incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	Partly available - only ASAT and ALAT	Liver transplant: Laboratory research of liver function (PT, albumin, bilirubin, transaminases: ASAT (=SGOT), ALAT (=SGPT) etc.)	Availability	Partly available - only ASAT and ALAT
	Treatment price (incl. lab test)	6\$ for the two available tests combined		Treatment price (incl. lab test)	free
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by an internal specialist (internist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	Availability	N/A	Cardiac complications and hypertension: Outpatient treatment by an internal specialist (internist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Inpatient treatment by a heart specialist (a cardiologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	Availability	N/A	Cardiac complications and hypertension: Outpatient treatment by a heart specialist (a cardiologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardio gram; cardiology)	Availability	Available	Cardiac complications and hypertension: Diagnostic imaging by means of ECG (electro cardio gram; cardiology)	Availability	N/A
	Treatment price (incl. lab test)	20\$		Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	Availability	N/A	Cardiac complications and hypertension: Diagnostic imaging by means of ultrasound of the heart	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	N/A	HIV/AIDS: Inpatient treatment by a HIV specialist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a HIV specialist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
HIV/AIDS: Laboratory research HIV: CD4 count	Availability	N/A	HIV/AIDS: Laboratory research HIV: CD4 count	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
HIV/AIDS: Laboratory research HIV: viral load	Availability	N/A	HIV/AIDS: Laboratory research HIV: viral load	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Inpatient treatment by a specialist in infectious diseases (an infectiologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	Availability	N/A	HIV/AIDS: Outpatient treatment and follow up by a specialist in infectious diseases (an infectiologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney diseases, including dialysis: Nephrology: chronic hemodialysis (3 times a week)	Availability	N/A	Kidney diseases, including dialysis: Nephrology: chronic hemodialysis (3 times a week)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	Availability	N/A	Kidney diseases, including dialysis: Nephrology: peritoneal dialysis/dialysis through the peritoneum	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Inpatient treatment by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A	Kidney diseases, including dialysis: Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	N/A	Kidney diseases, including dialysis: Laboratory research: PTH, calcium, phosphate	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	Partly available - only creatinin and ureum	Kidney diseases, including dialysis: Laboratory research of renal/ kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Availability	Partly available - only creatinin and ureum
	Treatment price (incl. lab test)	6\$ for the two available tests combined		Treatment price (incl. lab test)	free
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Cancer: Inpatient treatment by a cancer specialist (an oncologist)	Availability	Available - There is an oncologist doctor who act as internal medicine specialist because there is no diagnosis equipment and necessary medicines.	Cancer: Inpatient treatment by a cancer specialist (an oncologist)	Availability	N/A
	Treatment price (incl. lab test)	Only doctor consultation		Treatment price (incl. lab test)	

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Reimbursement scheme	N/A		Reimbursement scheme	
	Included in price	\$3 for the doctor visit		Included in price	
Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	Availability	Available	Cancer: Outpatient treatment and follow up by a cancer specialist (an oncologist)	Availability	N/A
	Treatment price (incl. lab test)	\$3 for the doctor consultation		Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price	Only doctor consultation		Included in price	
Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Availability	Available	Cancer: Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Availability	N/A
	Treatment price (incl. lab test)	Price for all the listed tests combined are \$6		Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Inpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A	Chronic obstructive lung disease: Outpatient treatment by a lung specialist (a pulmonologist)	Availability	N/A
	Treatment price (incl.			Treatment price	

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	lab test)			(incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Availability	N/A	Chronic obstructive lung disease: Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	Availability	N/A	Chronic obstructive lung disease: Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	N/A	Spine surgery: Inpatient treatment by a specialist in the impairment of the skeletal system (an orthopedist /orthopedic surgeon)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	N/A	Spine surgery: Surgery, specifically orthopaedic surgery of the spine	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	

Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopedist / orthopedic surgeon)	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a specialist in the impairment of the skeletal system (an orthopedist / orthopedic surgeon)	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Spine surgery: Anesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection	Availability	N/A	Spine surgery: Anesthesiology: pain management; e.g. branch block, spinal facet injection, epidural injection	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	
Spine surgery: Outpatient treatment and follow up by a physical therapist	Availability	N/A	Spine surgery: Outpatient treatment and follow up by a physical therapist	Availability	N/A
	Treatment price (incl. lab test)			Treatment price (incl. lab test)	
	Reimbursement scheme			Reimbursement scheme	
	Included in price			Included in price	

## Belet Wayne – medication

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Availability	Partly available: will arrive within a week	Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Availability	Partly available: It will take from 2 to 3 weeks to arrive	Insulin injections: Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human		N/A
	Generic name	Insulin human		Generic name	Insulin human		Generic name	
	Brand name	Actrapid		Brand name	Actrapid		Brand name	
	Dosage	100IU/ml		Dosage	100IU/ml		Dosage	
	Form	Injection		Form	Injection		Form	
	# of units in container	1 per box		# of units in container	1 per box		# of units in container	
	Price per box	\$10		Price per box	\$10		Price per box	
Insulin injections: Intermediate-acting: Insulin isophane	Availability	N/A	Insulin injections: Intermediate-acting: Insulin isophane	Availability	N/A	Insulin injections: Intermediate-acting: Insulin isophane	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability	N/A	Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability	N/A	Insulin injections: Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Availability	N/A
	Generic name			Generic name			Generic name	

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability	N/A	Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability	Available	Oral hypoglycemic agents/blood glucose lowering medication: Metformin	Availability	N/A
	Generic name			Generic name	Metformin		Generic name	
	Brand name			Brand name	Metformin		Brand name	
	Dosage			Dosage	500mg		Dosage	
	Form			Form	Tab		Form	
	# of units in container			# of units in container	84 pills		# of units in container	
	Price per box			Price per box	\$4		Price per box	
Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability	N/A	Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability	N/A	Oral hypoglycemic agents/blood glucose lowering medication: Gliclazide	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Olanzapine	Availability	N/A	Anti-psychotic medication: Olanzapine	Availability	N/A	Anti-psychotic medication: Olanzapine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Chlorpromazine	Availability	Available	Anti-psychotic medication: Chlorpromazine	Availability	Available	Anti-psychotic medication: Chlorpromazine	Availability	Available
	Generic name	Promethazine		Generic name	Promethazine		Generic name	Promethazine
	Brand name	Dawo-prom		Brand name	Dawo-prom		Brand name	Dawo-prom
	Dosage	50mg		Dosage	50mg		Dosage	50mg, 25mg
	Form	Tab		Form	Tab		Form	Tab
	# of units in container	100pills		# of units in container	100pills		# of units in container	100pills
	Price per box	\$1.7		Price per box	\$5		Price per box	free
Anti-psychotic medication: Haloperidol	Availability	N/A	Anti-psychotic medication: Haloperidol	Availability	N/A	Anti-psychotic medication: Haloperidol	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Risperidone	Availability	N/A	Anti-psychotic medication: Risperidone	Availability	N/A	Anti-psychotic medication: Risperidone	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti-psychotic medication: Clozapine	Availability	N/A	Anti-psychotic medication: Clozapine	Availability	N/A	Anti-psychotic medication: Clozapine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
Price per box		Price per box		Price per box				
Anti-psychotic medication: Aripiprazole depot injection	Availability	N/A	Anti-psychotic medication: Aripiprazole depot injection	Availability	N/A	Anti-psychotic medication: Aripiprazole depot injection	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
Price per box		Price per box		Price per box				
Antidepressant medication: Amitriptyline	Availability	Available	Antidepressant medication: Amitriptyline	Availability	Available	Antidepressant medication: Amitriptyline	Availability	Available
	Generic name	Amitriptyline		Generic name	Amitriptyline		Generic name	Amitriptyline
	Brand name	Amitriptyline		Brand name	Amitriptyline		Brand name	Amitriptyline

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
		e						ylene
	Dosage	25mg		Dosage	25mg		Dosage	25mg
	Form	tab		Form	tab		Form	tab
	# of units in container	100pills		# of units in container	100pills		# of units in container	100pills
	Price per box	\$1.7		Price per box	\$2.5		Price per box	free
Antidepressant medication: Sertraline	Availability	N/A	Antidepressant medication: Sertraline	Availability	N/A	Antidepressant medication: Sertraline	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antidepressant medication: Fluoxetine	Availability	N/A	Antidepressant medication: Fluoxetine	Availability	N/A	Antidepressant medication: Fluoxetine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Post traumatic stress disorder/sedative medication: Diazepam	Availability	N/A	Post traumatic stress disorder/sedative medication: Diazepam	Availability	Available	Post traumatic stress disorder/sedative medication: Diazepam	Availability	Available
	Generic name			Generic name	diazepam		Generic name	diazepam

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Brand name			Brand name	calm		Brand name	diazepam
	Dosage			Dosage	10mg		Dosage	10mg
	Form			Form	kenya		Form	iran
	# of units in container			# of units in container	1000pills		# of units in container	10AMP
	Price per box			Price per box	0.5\$ per 10pills		Price per box	free
Post traumatic stress disorder/sedative medication: Lorazepam	Availability	N/A	Post traumatic stress disorder/sedative medication: Lorazepam	Availability	N/A	Post traumatic stress disorder/sedative medication: Lorazepam	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Availability	Available	Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Availability	Available	Immunosuppressive medication/lifelong treatment for patients who had organ transplantation	Availability	Available
	Generic name	Prednisalone		Generic name	Prednisalone		Generic name	Prednisalone
	Brand name	Prednisalone		Brand name	Prednisalone		Brand name	Prednisalone
	Dosage	5mg		Dosage	5mg		Dosage	5mg
	Form			Form			Form	
	# of units in container	30pills		# of units in container	100pills		# of units in container	100pills
	Price per box	\$1		Price per box	\$5		Price per box	free

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
<b>Medicines for pain management: Acetylsalicylic acid</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Acetylsalicylic acid</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Acetylsalicylic acid</b>	<b>Availability</b>	Available
	<b>Generic name</b>	Acetylsalicylic acid		<b>Generic name</b>	Aspirin		<b>Generic name</b>	Aspirin
	<b>Brand name</b>	Aspirin		<b>Brand name</b>	Dispersible Aspirin		<b>Brand name</b>	Aspirin
	<b>Dosage</b>	75mg\$, 81mg, 300mg		<b>Dosage</b>	75mg		<b>Dosage</b>	300mg
	<b>Form</b>	tab		<b>Form</b>	tab		<b>Form</b>	tab
	<b># of units in container</b>	100,100,200pills		<b># of units in container</b>	100pills		<b># of units in container</b>	1000pills
	<b>Price per box</b>	\$1.2, \$1.2, \$1.8		<b>Price per box</b>	\$5		<b>Price per box</b>	free
<b>Medicines for pain management: Ibuprofen</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Ibuprofen</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Ibuprofen</b>	<b>Availability</b>	Available
	<b>Generic name</b>	Ibuprofen		<b>Generic name</b>	Ibuprofen		<b>Generic name</b>	ibuprofen
	<b>Brand name</b>	Brufen		<b>Brand name</b>	Glofen		<b>Brand name</b>	Neoprofen
	<b>Dosage</b>	200mg, 400mg		<b>Dosage</b>	400mg		<b>Dosage</b>	200mg, 400mg
	<b>Form</b>	tab		<b>Form</b>	tab		<b>Form</b>	tab
	<b># of units in container</b>	100pills both		<b># of units in container</b>	100pills		<b># of units in container</b>	1000pills
	<b>Price per box</b>	\$1.5		<b>Price per box</b>	\$5		<b>Price per box</b>	free
<b>Medicines for pain management: Paracetamol</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Paracetamol</b>	<b>Availability</b>	Available	<b>Medicines for pain management: Paracetamol</b>	<b>Availability</b>	Available
	<b>Generic name</b>	Paracetamol		<b>Generic name</b>	Paracetamol		<b>Generic name</b>	Paracetamol
	<b>Brand name</b>	Paramol		<b>Brand name</b>	Paramol		<b>Brand name</b>	Biomol
	<b>Dosage</b>	500mg		<b>Dosage</b>	500mg		<b>Dosage</b>	500mg

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Form	Tab		Form	Tab		Form	Tab
	# of units in container	100pills both		# of units in container	100pills		# of units in container	1000pills
	Price per box	\$0.7\$, \$1.7		Price per box	5\$		Price per box	free
Medicines for pain management: Morphine	Availability	N/A	Medicines for pain management: Morphine	Availability	N/A	Medicines for pain management: Morphine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Cardiac complications/heart failure: Digoxin	Availability	N/A	Cardiac complications/heart failure: Digoxin	Availability	N/A	Cardiac complications/heart failure: Digoxin	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Cardiac complications/heart failure: Furosemide	Availability	Available	Cardiac complications/heart failure: Furosemide	Availability	Available	Cardiac complications/heart failure: Furosemide	Availability	Available
	Generic name	Furosemide		Generic name	Furosemide		Generic name	Furosemide
	Brand name	Lasix		Brand name	Lasix		Brand name	Furosemide
	Dosage	20mg		Dosage	40mg		Dosage	40mg

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Form	Tab		Form	Tab		Form	Tab
	# of units in container	100pills		# of units in container	250pills		# of units in container	1000pills
	Price per box	2\$		Price per box	12.5\$		Price per box	free
Cardiac complications/heart failure: Spironolactone	Availability	N/A	Cardiac complications/heart failure: Spironolactone	Availability	N/A	Cardiac complications/heart failure: Spironolactone	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Availability	Available	Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Availability	Available	Antithrombotic medicines/blood thinning medicine: Acetylsalicylic acid	Availability	Available
	Generic name	Acetylsalicylic acid		Generic name	Aspirin		Generic name	Aspirin
	Brand name	Aspirin		Brand name	Disporsible Aspirin		Brand name	Aspirin
	Dosage	75mg\$, 81mg, 300mg		Dosage	75mg		Dosage	300mg
	Form	tab		Form	tab		Form	tab
	# of units in container	100,100,200pills		# of units in container	100pills		# of units in container	1000pills
	Price per box	\$1.2, \$1.2, \$1.8		Price per box	\$5		Price per box	free
Antithrombotic medicines/blood thinning	Availability	N/A	Antithrombotic medicines/blood thinning	Availability	N/A	Antithrombotic medicines/blood thinning	Availability	N/A

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
medicine: Clopidogrel	Generic name		medicine: Clopidogrel	Generic name		medicine: Clopidogrel	Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antithrombotic medicines/blood thinning medicine: Warfarin	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Warfarin	Availability	N/A	Antithrombotic medicines/blood thinning medicine: Warfarin	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
Price per box		Price per box		Price per box				
Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Amlodipine	Availability	N/A
	Generic name	Amlodipine		Generic name	Amlodipine		Generic name	
	Brand name	Amlodipine		Brand name	Amlodipine		Brand name	
	Dosage	10mg		Dosage	10mg		Dosage	
	Form	Tab		Form	Tab		Form	
	# of units in container	28pills		# of units in container	28pills		# of units in container	
Price per box	1.3\$	Price per box	3\$	Price per box				

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Bisoprolol	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability	Partly available: will arrive within two weeks	Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Enalapril	Availability	N/A
	Generic name			Generic name	Enalapril		Generic name	
	Brand name			Brand name	Cardace		Brand name	
	Dosage			Dosage	10mg		Dosage	
	Form			Form	kenya		Form	
	# of units in container			# of units in container	28pills		# of units in container	
	Price per box			Price per box	2.5\$		Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Amlodipine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in			# of units in			# of units in	

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	container			container			container	
	Price per box			Price per box			Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Lisinopril + Hydrochlorothiazide	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability	N/A	Anti hypertensive medication/medication for lowering high blood pressure: Losartan	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Availability	Available	Anti hypertensive medication/medication for lowering high blood pressure: Losartan + Hydrochlorothiazide	Availability	N/A
	Generic name	Losartan		Generic name	Losartan		Generic name	
	Brand name	Losart		Brand name	Losium plus		Brand name	
	Dosage	50mg+12.5		Dosage	50mg+12.5		Dosage	
	Form	bangladesh		Form	Tab		Form	

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	# of units in container	Tab		# of units in container	30pills		# of units in container	
	Price per box	2.5\$		Price per box	3\$		Price per box	
Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Availability	Available	Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Availability	Available	Lipid-lowering medicine/cholesterol lowering medicine: Simvastatin	Availability	N/A
	Generic name	Atorvastatin		Generic name	Atorvastatin		Generic name	
	Brand name	Atorvastatin		Brand name	Atorvastatin		Brand name	
	Dosage	10mg		Dosage	20mg		Dosage	
	Form	Tab		Form	Tab		Form	
	# of units in container	28pills		# of units in container	28pills		# of units in container	
	Price per box	1.5\$		Price per box	3.5\$		Price per box	
Antiretrovirals/HIV medicine: Dolutegravir	Availability	N/A	Antiretrovirals/HIV medicine: Dolutegravir	Availability	N/A	Antiretrovirals/HIV medicine: Dolutegravir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Efavirenz	Availability	N/A	Antiretrovirals/HIV medicine: Efavirenz	Availability	N/A	Antiretrovirals/HIV medicine: Efavirenz	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Nevirapine	Availability	N/A	Antiretrovirals/HIV medicine: Nevirapine	Availability	N/A	Antiretrovirals/HIV medicine: Nevirapine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Ritonavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Darunavir	Availability	N/A	Antiretrovirals/HIV medicine: Darunavir	Availability	N/A	Antiretrovirals/HIV medicine: Darunavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Atazanavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability	N/A	Antiretrovirals/HIV medicine: Atazanavir + ritonavir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability	N/A	Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability	N/A	Antiretrovirals/HIV medicine: Lopinavir + ritonavir (LPV/r)	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
Combination tablets: Abacavir + lamivudine	Availability	N/A	Combination tablets: Abacavir + lamivudine	Availability	N/A	Combination tablets: Abacavir + lamivudine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability	N/A	Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability	N/A	Combination tablets: Dolutegravir + lamivudine + tenofovir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + emtricitabine + tenofovir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in			# of units in			# of units in	

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	container			container			container	
	Price per box			Price per box			Price per box	
Combination tablets: Efavirenz + lamivudine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + lamivudine + tenofovir	Availability	N/A	Combination tablets: Efavirenz + lamivudine + tenofovir	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Emtricitabine + tenofovir	Generic name	N/A	Combination tablets: Emtricitabine + tenofovir	Generic name	N/A	Combination tablets: Emtricitabine + tenofovir	Generic name	N/A
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Combination tablets: Lamivudine + nevirapine + zidovudine	Availability	N/A	Combination tablets: Lamivudine + nevirapine + zidovudine	Availability	N/A	Combination tablets: Lamivudine + nevirapine + zidovudine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
Combination tablets: Lamivudine + zidovudine	Availability	N/A	Combination tablets: Lamivudine + zidovudine	Availability	N/A	Combination tablets: Lamivudine + zidovudine	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Availability	N/A	Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Availability	N/A	Medicines for prevention of HIV-related opportunistic infections: Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicine for dialysis: Intraperitoneal dialysis solution	Availability	N/A	Medicine for dialysis: Intraperitoneal dialysis solution	Availability	N/A	Medicine for dialysis: Intraperitoneal dialysis solution	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
Medicine for inhalation: Formoterol	Availability	N/A	Medicine for inhalation: Formoterol	Availability	N/A	Medicine for inhalation: Formoterol	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicine for inhalation: Budesonide	Availability	N/A	Medicine for inhalation: Budesonide	Availability	N/A	Medicine for inhalation: Budesonide	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Medicine for inhalation: Fluticasone propionate	Availability	N/A	Medicine for inhalation: Fluticasone propionate	Availability	N/A	Medicine for inhalation: Fluticasone propionate	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Tablets: Prednisolone	Availability	Available	Tablets: Prednisolone	Availability	Available	Tablets: Prednisolone	Availability	Available
	Generic name	Prednisolon		Generic name	Prednisolone		Generic name	Predniso

Facility 1: Tabaarak Pharmacy			Facility 2: Hilaal speciality Hospital			Facility 3: Hiiran Regional Hospital		
	Brand name	Prednisolone		Brand name	Prednisolone		Brand name	Prednisolone
	Dosage	5mg		Dosage	5mg		Dosage	5mg
	Form	Tab		Form	Tab		Form	Tab
	# of units in container	100pills		# of units in container	100pills		# of units in container	100pills
	Price per box	1\$		Price per box	5\$		Price per box	free
Cancer: available medications	Availability	N/A	Cancer: available medications	Availability	N/A	Cancer: available medications	Availability	N/A
	Generic name			Generic name			Generic name	
	Brand name			Brand name			Brand name	
	Dosage			Dosage			Dosage	
	Form			Form			Form	
	# of units in container			# of units in container			# of units in container	
	Price per box			Price per box			Price per box	
Is immunotherapy available and if so, which ones?	Prednisolone	Is immunotherapy available and if so, which ones?	Prednisolone	Is immunotherapy available and if so, which ones?	Prednisolone			
If available, mention at least one facility/pharmacy where the availability information was obtained.		If available, mention at least one facility/pharmacy where the availability information was obtained.		If available, mention at least one facility/pharmacy where the availability information was obtained.				