



REPORT

Photo: Erdogan Hospital in Mogadishu, Somalia

REPORT

MEDICAL COUNTRY OF ORIGIN INFORMATION (MEDCOI) FROM MOGADISHU, SOMALIA

Client: Danish Immigration Service (DIS)

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1 INTRODUCTION

1.1 The Assignment

This report provides an overview of findings for the Medical Country of Origin (MedCOI) study in Mogadishu, Somalia, as commissioned by the Danish Immigration Service (DIS), and implemented by Tana Copenhagen. The purpose of the study is to provide an updated status on the availability and accessibility of medications and treatment services related to a range of diseases. It is anticipated that this information will be useful in the processing of asylum and humanitarian cases in Denmark and the European Union, where the health conditions of asylum seekers are an important consideration in migration processes, as determinants to the return to the country of origin (in this case Somalia) and in the application for humanitarian residence or family reunification purposes.

Tana has been engaged in Somalia since 2008 and has so far been involved in over 40 development projects of varying scope and size. Our portfolio spreads out across diverse sectors including technical expertise in thematic areas closely related to urban development, displacement, informal settlement, human rights, and gender. In relation to this assignment, Tana has collaborated with DIS and other partners over the years to gain insights into the health system in Somalia as well as with health system analysis from a MedCOI perspective. Our specific projects include:

Wilson Solicitors LLP, *Availability and accessibility of Psychotic Illness Care in Mogadishu*, September 2023

The Danish Immigration Service, *Medical Country of Origin Information (MEDCOI) – Somalia, Health System*, November 2020

A team of five in-house experts was engaged in the production of this report, which includes a combination of national consultants from Mogadishu, Somalia, and international consultants based in Copenhagen, Denmark.

1.2 Scope

This section sketches an outline of the key aspects that framed the scope of this assignment as agreed early on during the beginning of the study. This assignment aimed to update information about the availability of treatment services and medication supply in Mogadishu's health facilities, creating a useful database for individuals working with migration and asylum-seeking processes. At the inception phase, DIS provided a list of seven relevant areas that were to be investigated:

1. Diabetes (type I & II)
2. Psychotic disorders, depression, and Post-Traumatic Stress Disorder
3. Cardiac complications and hypertension
4. Kidney diseases, including dialysis
5. Cancer (chemotherapy)
6. Chronic obstructive lung disease

7. Pain relief

The study is designed to focus on two primary areas: medical treatments and medication.

Focus Area 1: Medical treatment, including laboratory controls

For the above-mentioned conditions, this study sought to understand the status of available services at outpatient and inpatient levels in health facilities such as the availability of disease specialists, laboratory controls, and medical devices, that would at a minimum be required for patients suffering from these illnesses. The table below provides a full overview of the services that were explored:

Table 1: List of treatment services

1. Diabetes type I and II	1.1 Outpatient treatment and follow up by a general practitioner 1.2 Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist) 1.3 Inpatient treatment by a specialist in diabetes (an endocrinologist) 1.4 Medical devices internal medicine: insulin pump 1.5 Laboratory research of blood glucose (incl.: HbA1C/ glyc.Hb) 1.6 Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)
2. Psychotic disorders Non-psychotic disorders (depression and PTSD)	2.1 Outpatient treatment possibilities by psychiatrist 2.2 Inpatient treatment possibilities by psychiatrist 2.3 Outpatient treatment possibilities by psychologist 2.4 Inpatient treatment possibilities by psychologist 2.5 Inpatient treatment for women suffering from psychiatric disorders 2.6 Inpatient treatment, including compulsory or confined admission 2.7 Is there special housing (like protected apartments) for chronic psychotic patients with outpatient care? 2.8 Psychiatric treatment: assisted living / care at home by psychiatric nurse 2.9 Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist
3. Kidney diseases, including dialysis	3.1 Outpatient treatment and follow up by a kidney specialist (a nephrologist) 3.2 Inpatient treatment by a kidney specialist (a nephrologist) 3.3 Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels) 3.4 Laboratory research of PTH, calcium, phosphate 3.5 Nephrology: chronic haemodialysis (3 times a week) 3.6 Nephrology: peritoneal dialysis/dialysis through the peritoneum 3.7 Surgical placement of an arterial shunt for hemodialysis
4. Cardiac complications and hypertension	4.1 Outpatient treatment by an internal specialist (internist) 4.2 Inpatient treatment by an internal specialist (internist) 4.3 Outpatient treatment by a heart specialist (a cardiologist) 4.4 Inpatient treatment by a heart specialist (a cardiologist) 4.5 Diagnostic imaging by means of ECG (electro cardio gram; cardiology) 4.6 Diagnostic imaging by means of ultrasound of the heart
5. Cancer (chemotherapy)	5.1 Outpatient treatment and follow up by a cancer specialist (an oncologist) 5.2 Inpatient treatment by a cancer specialist (an oncologist) 5.3 Laboratory research / monitoring of full blood count; e.g. Hb, WBC &

	platelets
6. Chronic obstructive lung disease	6.1 Outpatient treatment by a lung specialist (a pulmonologist) 6.2 Inpatient treatment by a lung specialist (a pulmonologist) 6.3 Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication 6.4 Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist
7. Pain relief	7.1 Types of medication 7.2 Options for administration (e.g., Injection, tabs, patches, epidural)

This study also sought to understand the extent of i) **availability** and ii) **accessibility** of these services. In the case of availability, the study defined it to describe whether a certain treatment is offered either fully or in part, in either a public or private medical facility somewhere in Mogadishu city. For accessibility, this study looked into the pricing of fees such as consultation, registration, testing and the treatment itself. The following table illustrates the questions that framed the scope of our study:

Table 2 Description of availability and accessibility

Availability Questions	
1.	Are the following treatments available in Mogadishu (in at least a certain public or private medical facility at a certain time somewhere in Mogadishu, Somalia)
	<i>Indicators:</i>
-	Available: the requested treatment is available in at least 1 health facility in Mogadishu, Somalia at the time of research.
-	Not available: the selected treatment is entirely not available at the health facility in any capacity.
-	Partly available: a part of the requested treatment is available and another part not.
2.	If the treatment (including laboratory controls) is available, mention at least one facility where the availability information was obtained.
3.	If the treatment (including laboratory controls) is not available, mention at least two facilities where the availability information was obtained.
Accessibility Questions	
1.	What is the price for treatment (including laboratory test) and what is included in the consultation price?
	<i>Indicators:</i>
-	Public outpatient treatment price
-	Public inpatient treatment price
-	Private outpatient treatment price
-	Private inpatient treatment price

Focus Area 2: Medication, including storage facilities

Under medication, the following medications were included in the study.

Table 3 List of medications

1. Diabetes type I and II	1.1 Insulin injections	<ul style="list-style-type: none"> Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human Intermediate-acting: Insulin isophane Long-acting: Insulin detemir, Insulin glargine,
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		Insulin degludec
	1.2 Oral hypoglycaemic agents/blood glucose lowering medication	<ul style="list-style-type: none"> • Metformin • Gliclazide
2. Psychotic disorders Non-psychotic disorders (depression and PTSD)	2.1 Anti-psychotic medication	<ul style="list-style-type: none"> • Olanzapine • Chlorpromazine • Haloperidol • Risperidone • Clozapine • Aripiprazole depot injection • Chlorprothixene • Quetiapin • Pregabalin • Gabapentin
	2.2 Antidepressant medication	<ul style="list-style-type: none"> • Amitriptyline • Sertraline
	2.3 Post-traumatic stress disorder (PTSD)/sedative medication	<ul style="list-style-type: none"> • Diazepam • Lorazepam
	2.4 Medicines for pain management	<ul style="list-style-type: none"> • Ibuprofen • Paracetamol • Morphine
3 Cardiac complications/heart failure and hypertension/high blood pressure	3.1 Cardiac complications/heart failure	<ul style="list-style-type: none"> • Digoxin • Furosemide • Spironolactone
	3.2 Antithrombotic medicines/blood thinning medicine	<ul style="list-style-type: none"> • Acetylsalicylic acid • Clopidogrel • Warfarin
	3.3 3.3Anti-hypertensive medication/medication for lowering high blood pressure	<ul style="list-style-type: none"> • Amlodipine • Bisoprolol • Enalapril • Losartan
	3.4 Lipid-lowering medicine/cholesterol lowering medicine	<ul style="list-style-type: none"> • Simvastatin
4 Kidney diseases, including dialysis	4.1 Medicine for dialysis	<ul style="list-style-type: none"> • Intraperitoneal dialysis solution
5 Cancer	5.1 Cancer	<ul style="list-style-type: none"> • Chemotherapy medications • Immunotherapy
6 Chronic obstructive lung disease	6.1 Medicine for inhalation	<ul style="list-style-type: none"> • Formoterol • Budesonide • Fluticasone propionate
	6.2 Tablets	<ul style="list-style-type: none"> • Prednisolone

In understanding the availability of the above-listed medications, the study defined this to describe whether a certain medication is registered in Mogadishu, is offered either in either a public or private

medical facility somewhere in Mogadishu city, and is in stable or unstable supply. For accessibility, the study looked into the pricing of drugs based on the available brands and dosage forms. The following table illustrates the questions that framed this scope:

Table 4 Scope of availability and accessibility of medication

Availability Questions

1. Is the following medication registered and available in Somalia?

Indicators:

- Yes
- No
- Although medication is registered; there is no supply at all.

2. If the medication is available, mention at least one facility/pharmacy where the availability information was obtained.

Indicators:

- Yes: in stock and stable supply at the pharmacy
- Available: the requested medicine is currently experiencing supply problems (at least in the last 4 weeks). Even though the requested medicine has been licensed and used to be available, supply has been interrupted.
- Not available: ordering from abroad or from another pharmacy is not possible

3. If the medication is not available, mention at least two facilities/pharmacies where the availability information was obtained.

Accessibility Questions

1. What is the price of the requested medication (public or private facilities) per package or selling unit (with mention of dosage and number of pills per package)?

Indicators:

- Generic name
- Brand name
- Dosage
- Form
- Number of units in the container/number of pills per packaging
- Price per box

1.3 Selection of health facilities

The study aimed to investigate the conditions of health facilities in Mogadishu, focusing solely on this geographical area. To identify the facilities that met the criteria of suitable requirements, a set of standards was designed at the beginning of the study. The criteria were as follows:

- At least one public or government-run hospital (also includes those co-managed with donors) that provides at least a majority of specialized treatments for diabetes, kidney diseases including dialysis, cardiac complications and hypertension, cancer-chemotherapy, and chronic obstructive lung diseases.
- At least one relevant hospital that specializes in outpatient and/or inpatient treatment of psychiatric and non-psychiatric care.
- At least three pharmacies, including private/stand-alone pharmacies or pharmacies positioned within either private or public hospitals, and providing at least a majority of medications related

to diabetes, kidney diseases including dialysis, cardiac complications and hypertension, cancer-chemotherapy, psychotic disorders, and chronic obstructive lung diseases.

The study identified six well-known health facilities in Mogadishu, both hospitals and pharmacies, that met the above criteria. It is important to note that the healthcare system in this area is underdeveloped, and many facilities operate under difficult conditions to meet societal demands. For example, public hospitals may operate cost-recovery mechanisms to accommodate vulnerable populations, while private facilities may have different operating procedures. However, the facilities chosen provide a clear illustration of where services and costs are available across private and public facilities, and what is realistically available to the public. These six facilities also provide a wide range of the services under investigation thus allowing the study to document the required information. The table below provides a brief overview of the participating facilities.

Table 5 List of health facilities surveyed in Mogadishu

Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital	The Mogadishu Somali Recep Tayyip Erdogan Training and Research Hospital, a joint venture between Somali and Turkish authorities, operates as a semi-public institution where patients cover treatment costs. Completed in September 2013, the hospital, with 205 beds, offering patient care across various services, including polyclinics, inpatient care, operating rooms, delivery rooms, intensive care units, MR, tomography, stone crushing units, dialysis, bone densitometry, and physical therapy. ¹
Shaafi Hospital and Pharmacy	<p>Officially inaugurated in 2015, the hospital originated from an agreement to modernize Digfeer Hospital, subsequently renamed Erdogan Hospital.² Financed by the Turkish International Cooperation and Development Agency (TIKA) with a \$135.7 million budget, including \$85.6 million from Turkish authorities over five years, the hospital stands out as the only facility offering residency programs to young doctors.³</p> <p>Shaafi Hospital, inaugurated in April 2016, is described as one of the leading healthcare institutions in Somalia. Established by the Doctors Health Care Union (DHU), a consortium of Somali physicians and healthcare professionals, the hospital seeks to bridge the gap between high-cost medical facilities and more economically accessible healthcare services.⁴</p> <p>Situated in the Hodan district, the hospital provides a spectrum of clinical services, including Anesthesiology, Cardiology, Dentistry, Gynecology, Internal Medicine, Obstetrics, Pediatrics, and Urology. Diagnostic services such as CT Scanner, Dopler, ECG, MRI Scanner, Radiology, Ultrasound, USG, and X-ray are also available. Auxiliary services encompass Ambulance, Emergency, and Pharmacy facilities. Moreover, Shaafi Hospital delivers various surgical services,</p>

¹ LinkedIn Profile. About. Mogadishu Somali Turkey, Recep Tayyip Erdogan Training and Research Hospital n.d.

<https://www.linkedin.com/company/mogadishu-somali-turkey-recep-tayyip-erdogan-training-and-research-hospital/?originalSubdomain=so>

² The Turkey's president formally opens Digfeer Hospital. Goobjoog 2015. <https://en.goobjoog.com/the-turkeys-president-formally-opens-digfeer-hospital/>

³ Only Hospital That Provides Residency Programs. Somali Turkey Training & Research n.d. <https://strh.edu.so/about/>; Turkish president inaugurates hospital in Somalia. World Bulletin 2015.

⁴ Shaafi Hospital. Kulmie n.d. <https://www.kulmie.com/listing/shaafi-hospital.html>

Forlanini Mental Health Hospital

including both General and Specialized Surgery.⁵

The Forlanini Hospital is a public hospital under the Ministry of Health and Human Services. It was built by the Italian government in February 1924 and started its origins as a referral hospital for tropical disease, diarrhoea, hepatitis, leprosy, TB, mother and child and mental illnesses. It is one of the largest hospitals in Mogadishu, Somalia and is located in the Banadir region of Abdul-Aziz District. It has a capacity to serve 1.5 million people.⁶ Currently, its main departments include a Mental Health Department, TB MDR Department, Nutrition Department and a section for COVID-19. The outpatient service caters to both men and women patients. The hospital currently accommodates 100 beds in its inpatient ward, which caters exclusively to male patients suffering only from psychotic and non-psychotic disorders. Female patients are currently not admitted as inpatients as an exclusive female ward is yet to be constructed, though there are plans in place to accomplish this.

Habeeb Mental Health Hospital

The Habeeb Mental Health Hospital in Mogadishu was established by Dr. Abdirahman Ali Awale, also known as Dr. 'Habeeb,' in 2005. Initially admitting 30 patients, the hospital became one of Somalia's first mental health establishments since the civil war began in 1991. Over time, Dr. 'Habeeb' expanded his efforts, establishing ten additional psychiatric centers in various locations across Somalia, including Buhoodle, Caabudwaaq, Gaalkayo, Cadaado, Belet Weyne, Marka, Beled Hawo, and Kismaayo. The hospital currently operates two locations in Mogadishu: one with a capacity of 30 beds and another with 230 beds.

The facilities offer outpatient consultations, addressing conditions such as bipolar disorders, schizophrenia, anxiety, depression, dementia, epilepsy, psychosis, and substance abuse-related issues. Additionally, Dr. 'Habeeb' extends his services beyond the centers by making house calls, providing treatment to patients at home and in their communities.⁷

Shifaa Pharmacy

Established in late 2011, a team of skilled pharmacy professionals and private investors came together to establish Shifaa Pharmacy. Since its inception, Shifaa Pharmacy has established 17 outlets across various locations in Mogadishu, including four branches in other cities. It is worth noting that the pharmacy has previously closed down two of its branches outside Mogadishu. Additionally, Shifaa operates a wholesale and retail outlet in Mogadishu. Their strategic presence can be found in major shopping malls and departmental stores, such as Hayat Supermarket and Juba Hypermarket, as well as some outlets in close proximity to major hospitals in the city. Shifaa Pharmacy positions itself as a distributor of high-quality over-the-counter and prescription medications.

Ramadan Pharmacy

Established in 2014 by private business investors, Ramadan Pharmacy is a private retail pharmacy. It currently operates three branches in Mogadishu and maintains direct imports of medications, primarily from Turkey and India. The main outlet

⁵ Shaafi Hospital. Manje Health n.d. <https://manjehealth.com/hospitals/shaafi-hospital/>

⁶ Forlanini Hospital. Ministry of Health, Federal Government of Somalia. n.d. <https://moh.gov.so/en/forlanini-hospital/>

⁷ Dr. Habeeb: Raising The Standard for Mental Health Care in Somalia. UNSOM 2018. <https://unsom.unmissions.org/dr-habeeb-raising-standard-mental-health-care-somalia>

of Ramadan Pharmacy is inside a shopping centre opposite Kalkaal Hospital and approximately 1 KM away from Erdogan Hospital. The second outlet is near the Egyptian Hospital, while the third branch serves an area near Banadir Hospital.

Focusing primarily on prescription-only medications, Ramadan Pharmacy also offers a diverse range of over-the-counter medications. Notably, the pharmacy has gained a reputation for its uninterrupted supply of drugs. Consequently, doctors from major hospitals in the city often refer their patients to Ramadan Pharmacy as a last resort for medications that may be scarce in their hospital pharmacies or other pharmacies in Mogadishu.

1.4 Data collection methods

The data collection period commenced on 29 October 2023 and concluded on 10 November, This was after conducting some preparatory work of mapping the sample facilities and respondents and providing requests for approval from the relevant authorities.

The main data collection method encompassed a structured survey. The questionnaire was pre-developed and administered through the Kobo data collection tool, which allowed for easy data entry using a mobile phone while in the field. The form included specific questions related to the availability and pricing of the required treatments and medications. The primary currency utilized for pricing is the United States Dollar (\$), as it is more widely used in comparison to the local currency. Transactional monetary payments made through cash or mobile money have accommodated the US Dollar, making it more accessible to individuals and institutions alike. The survey was administered to mainly clinical staff and management, where focal persons working at the outpatient and inpatient departments, specialist units and pharmacies were identified. Despite facing challenges in obtaining consent from some of the facilities, the study managed to secure the required number of facilities. This is further elaborated in section 1.5 below. At the end of the period, one private clinic and one public pharmacy had declined our requests to participate.

1.5 Quality Assurance

The study conducted quality assurance of data gathered through an independent spot-checking exercise for the sole purpose of verifying consistency. This follow-up was conducted between 13th and 21st November 2023 where the data checker visited five of the facilities from the main study sites, and aimed at collecting responses from different persons other than those who had participated in the main data collection. This was not always possible, especially in cases where there was only one person designated to that respective health desk. The process also involved exploring the same set of question areas related to treatments and medications. Overall, the process helped to complement the main data set in several ways: by providing additional information such as extra detail on drugs that might have not been previously recorded, verification with the respondents to clarify any confusion or errors, and finally, to confirm that the original data set was correctly recorded.

Additionally, the internal quality assurance system was used to ensure that the study met the required expectations and objectives. This review was done at different stages including the development of the inception note, the development of the data collection plan and the review of the draft report of findings. Feedback from the quality assurer was carefully considered and appropriate adjustments made.

1.6 Limitations of findings and challenges

Regulatory limitations: The regulatory and policy context regarding healthcare in the country is undergoing a period of restructuring with the establishment of new offices and procedures still taking place. This also means that standardization of requirements across the health sector is in most cases provisional with varying degrees of interpretation of requirements. It is important to understand that the information presented in this report should be viewed in this context and may vary depending on the circumstances at the time of the study, as well as the institutional setup.

As of November 2023, the regulation of medication is still considered provisional, and facilities are using an interim Essential Medicine List (2019) from the Federal Ministry of Health and Human Services in their operations. It is important to note that this list has not been made public yet. Thus, responses related to registration in section 2.2. should be understood as provisional rather than relating to a fully finalized and approved government registration process.

However, there have been some recent developments in the status of medication registration. An interim National Medicine Regulatory Authority (NMRA) has recently been established, and at the time of this report, it had received cabinet approval and was awaiting parliamentary review. This authority will oversee the inspection of medicines, manufacturers, regulation of expirations and medicine import licensing. The office has plans to undertake another round of medicine registration where an updated Essential Medicine List will be made available to partners and the wider public. However, it is unknown when this list will be finalized.

Data collection challenges: During our data collection process, the study faced various challenges in gaining access to the facilities. We had to seek permission from the relevant management authorities and, in some cases, the Ministry of Health. Access to government facilities posed a particular challenge due to strict protocol requirements and slow communication channels between the Ministry and the facilities. Additionally, staffing issues delayed the data collection process as it was difficult to find the right personnel to participate. Furthermore, heavy rains during the study period (October-November 2023) made it challenging to move around Mogadishu and restricted our access to certain areas. Nonetheless, the study managed to get on board the participation of the desired facilities with only two declining as mentioned earlier.

2 PRESENTATION OF FINDINGS

2.1 Availability and Accessibility of Medical Treatments

This section presents an overview of a range of treatment services across selected health facilities in Mogadishu. The main areas of enquiries were grouped into the following categories:

- **Availability:** Describes the extent of services offered; either i) full availability where all services are offered, ii) partial availability where only part of the service is offered at any given time and iii) no availability where the service is not offered at all.
- **Outpatient (OP) and/or Inpatient (IP) Consultation Fees:** Payments made towards a doctor's medical services (general practitioner or specialist), at either outpatient or inpatient treatment stages. All prices are listed in US Dollars (\$).
- **Treatment Fees:** Refers to all other charges, aside from doctor fees, that are required during the treatment of a disease.
- **Laboratory Test Fees:** Payments made towards laboratory services.
- **Registration and/or Admission Fees:** Administrative charges required for one to be seen at outpatient departments and the latter goes towards bed charges when a patient has been admitted to an inpatient ward.

a) General diseases

Facility Name	Erdogan Hospital - Public Facility					Shaafi Hospital – Private Facility				
Type of Treatment	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration/Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration/Admission fees
1. DIABETES TYPE I AND II										
1.1 Outpatient treatment and follow up by a general practitioner	Available	\$7 - 10.3 (there are additional charges of \$3.3 for patients requiring interdepartmental consultations)	\$8-12 (Monotherapy treatment \$8-\$12 (Dual therapy)	\$25 - \$28 (creatinin, ureum, sodium, potassium levels, HbA1C, Urine analysis, Biochemistry panel)	No registration fees are charged at outpatient level	Available	\$10	\$15	\$15	No registration fee for the outpatient services.

Facility Name	Erdogan Hospital - Public Facility					Shaafi Hospital – Private Facility				
Type of Treatment	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration/Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration/Admission fees
1.2 Outpatient treatment and follow up by a specialist in diabetes (an endocrinologist)	Partially available (There is no endocrinologist available in Erdogan Hospital. Diabetes patients are treated by either a resident doctors or internal medicine specialists. There are also rare cases referred to endocrinologists who are available through telemedicine and these do not attract additional fees).	Same as above	Same as above	Same as above	No registration fees are charged at outpatient level	Not available	-	-	-	-
1.3 Inpatient treatment by a specialist in diabetes (an endocrinologist)	Partially available (There is no endocrinologist available in Erdogan Hospital. Diabetes patients are treated by either a resident doctors or internal medicine specialists. There are also rare cases referred to endocrinologists who are available through telemedicine and these do not attract additional fees).	The inpatient fee is \$44 per night, which includes: a minimum of two daily visits from an internal medicine doctor, all lab tests as well as basic accessories such as cannula, urinary catheter, NG tube, and minor dressings. The ICU price is \$11 per night and patients only pay for the medications.	Depends on the length of stay and complications associated with each case and price of medication which adds to the inpatient fee. It usually ranges between \$400 to \$500 per week above of inpatient fees.	If required, same as above	Admission price inclusive of the inpatient cost at \$44 per night.	Not available	-	-	-	-
1.4 Medical devices internal medicine: insulin pump	Not available	-	-	-	-	Not available	-	-	-	-
1.5 Laboratory research of blood glucose (incl.: HbA1C/ glyco.Hb)	Available	-	-	\$5	-	Available	\$10	\$15	\$15	\$20
1.6 Laboratory research of renal/ kidney function (creatinin, ureum, sodium, potassium levels)	Available	-	-	Between \$0.5 - \$1 all biochemistry analysis	-	Available	\$10	\$15	\$15	\$20
2. KIDNEY DISEASES, INCLUDING DIALYSIS										

Facility Name	Erdogan Hospital - Public Facility					Shaafi Hospital – Private Facility				
Type of Treatment	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration/Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration/Admission fees
2.1 Outpatient treatment and follow up by a kidney specialist (a nephrologist)	Partially available (There is no nephrologist available in Erdogan Hospital. Other internal medicine specialists handle kidney disease patients. There are also few cases referred to endocrinologists available through telemedicine and these cases do not attract additional fees)	\$7 - 10.3 (there is additional charges of \$3.3 for patients requiring interdepartmental consultations)	\$8 - \$16 (depending on the patient comorbidities)	\$25 - \$28 (creatinin, ureum, sodium, potassium levels, HbA1C, Urine analysis, Biochemistry panel)	No fees are charged at outpatient level except for those admitted to the inpatient ward by the Doctor.	Available	\$10	\$35	\$25	\$45
2.2 Inpatient treatment by a kidney specialist (a nephrologist)	Partially available (There is no nephrologist available in Erdogan Hospital, either a resident doctor or other internal medicine specialist handle kidney patients. There are also rare cases referred to a nephrologist available through telemedicine and attracts no additional fees)	The inpatient cost is \$44 per night, which includes a minimum of two daily visits from an internal medicine doctor, all lab tests as well as basic accessories such as cannula, urinary catheter, NG tube, and minor dressings. The ICU price is \$110 and patients only pay for the medications.	Depends on the length of stay and complications associated with each case and price of medication which adds to the inpatient fee. It usually ranges between \$400 to \$500 per week inclusive of inpatient fees without counting dialysis fees.	–	\$44 per night for patients admitted to the inpatient ward	Available	\$10	\$35	\$25	\$45
2.3 Laboratory research of renal/kidney function (creatinin, ureum, proteinuria, sodium, potassium levels)	Available	-	-	Between \$0.5 - \$1 all biochemistry analysis	-	Available	-	-	\$25	-
2.4 Laboratory research of PTH, calcium, phosphate	Available	-	-	\$5 PTH, same as electrolytes	-	Not available	-	-	-	-
2.5 Nephrology: chronic haemodialysis (3 times a week)	Available	\$7 (only applicable if the last visit to the hospital was before 10 days)	\$38.5 per session + haemodialysis catheter insertion \$24 once only when patients are admitted first or upon replacement	Free once a month	\$44 per night for patients admitted to the inpatient ward - none to the regular (OPD) dialysis visitors.	Available	-	\$35 (per session)	-	\$45 (first time patients pay this amount)
2.6 Nephrology: peritoneal dialysis/dialysis through the peritoneum	Not available	-	-	-	-	Not available	-	-	-	-

Facility Name	Erdogan Hospital - Public Facility					Shaafi Hospital – Private Facility				
Type of Treatment	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration/Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration/Admission fees
2.7 Surgical placement of an arterial shunt for hemodialysis	Available	\$120	It involves three days of inpatient recovery and attracts same fee of \$44 per day.	-	The inpatient fee of \$44 per night and \$120 ICU cost for patients who have undergone an arterial shunt replacement.	Not available	-	-	-	-
3. CARDIAC COMPLICATIONS AND HYPERTENSION										
3.1 Outpatient treatment by an internal specialist (internist)	Available - only when patients are suffering from cardiac and non-cardiac diseases	\$7 - 10.3 (there are additional charges of \$3.3 for patients requiring interdepartmental consultations)	\$3 - \$37 (depending on type of imaging required - \$3 ECG, \$30 ECHO, \$4 Chest Xray)	\$28 - \$35 (depending on comorbidities)	No registration fees are charged at outpatient level	Available	\$10	\$42	\$28	\$25
3.2 Inpatient treatment by an internal specialist (internist)	Available - only when patients are suffering from cardiac and non-cardiac diseases too.	The inpatient cost is \$44 per night, which includes a minimum of two daily visits from an internal medicine doctor, all lab tests as well as basic accessories such as cannula, urinary catheter, NG tube, and minor dressings. The ICU price is \$110 and patients only pay for the medications.	Depends on the length of stay and complications associated with each case and price of medication which adds to the inpatient fee. It usually ranges between \$400 to \$500 per week inclusive of inpatient fees.	-	\$44 per night for patients admitted to the inpatient ward.	Available	\$10	\$71	\$35	\$25
3.3 Outpatient treatment by a heart specialist (a cardiologist)	Available	\$7 - 10.3 (there are additional charges of \$3.3 for patients requiring interdepartmental consultations . Charged mostly if the patient/case is more inclined to be treated by a cardiologist).	\$3 - \$37 (depending on type of imaging required - \$3 ECG, \$30 ECHO, \$4 Chest Xray)	\$28 - \$35 (depending on comorbidities)	No registration fees are charged at outpatient level	Available	\$10	\$73	\$37	\$25
3.4 Inpatient treatment by a heart specialist (a cardiologist)	Available	The inpatient fee is \$44 per night, which includes a minimum of two daily visits from a cardiologist., all lab tests as well as basic accessories such as cannula, urinary catheter, NG tube, and minor dressings. The ICU price is	Depends on the length of stay and complications associated with each case and price of medication which adds to the inpatient fee. It usually ranges between \$400 to \$500 per week inclusive of inpatient fees.	-	The inpatient fee is \$44 per night, which includes a minimum of two daily visits from an internal medicine doctor, all lab tests as well as basic accessories such as cannula, urinary catheter, NG tube, and minor dressings. The ICU price is	Available	\$10	\$120	\$43	\$25

Facility Name	Erdogan Hospital - Public Facility					Shaafi Hospital – Private Facility				
Type of Treatment	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration/Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration/Admission fees
		\$110 and patients only pay for the medications.			\$110 and patients only pay for the medications.					
3.5 Diagnostic imaging by means of ECG (electro cardio gram; cardiology)	Available	-	\$3	-	-	Available	\$10	\$5	-	-
3.6 Diagnostic imaging by means of ultrasound of the heart	Available (ECHO cardiography)	-	\$30	-	-	Not available	-	-	-	-
4. CANCER (CHEMOTHERAPY)										
4.1 Outpatient treatment and follow up by a cancer specialist (an oncologist)	Not available	-	-	-	-	Not available	-	-	-	-
4.2 Inpatient treatment by a cancer specialist (an oncologist)	Not available	-	-	-	-	Not available	-	-	-	-
4.3 Laboratory research / monitoring of full blood count; e.g. Hb, WBC & platelets	Not available	-	-	\$3 CBC (when available)	-	Not available	-	-	-	-
5. CHRONIC OBSTRUCTIVE LUNG DISEASE										
5.1 Outpatient treatment by a lung specialist (a pulmonologist)	Available	\$7 - 10.3 (there are additional charges of \$3.3 for patients requiring interdepartmental consultations)	\$75 Bronchoscopy for biopsy & \$50 if washout	-	No registration fees are charged at outpatient level	Not available	-	-	-	-
5.2 Inpatient treatment by a lung specialist (a pulmonologist)	Available	There are 3 pulmonologists at Erdogan. The inpatient cost is \$44 per night, which includes a minimum of two daily visits from a pulmonologist, all lab tests as well as basic accessories such as cannula, urinary catheter, NG tube, and minor dressings. The ICU price is \$110 and patients only pay for the medications.	Depends on the length of stay and complications associated with each case and price of medication which adds to the inpatient fee. It usually ranges between \$400 to \$500 per week inclusive of inpatient fees.	-	\$44 per night for patients admitted to the inpatient ward.	Not available	-	-	-	-

Facility Name	Erdogan Hospital - Public Facility					Shaafi Hospital – Private Facility				
Type of Treatment	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration/Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration/Admission fees
5.3 Medical devices pulmonology: spacer (with mask) for inhaler with asthma/KOL medication	Available	-	Free	Depends on initial investigation	-	Available	-	Patients buys the spacer for infants and children which costs \$12	Depends on initial investigation	-
5.4 Medical devices pulmonology: nebulizer/equipment that turns liquid medicine into a mist	Available	-	Free	Depends on initial investigation	-	Available	-	Free and patient only buys the medication which costs \$4	Depends on initial investigation	-
6. Pain relief										
6.1 Types of medication	Available (Examples: Paracetamol, NSAIDs, Tramadol, Morphine & Opiods)	-	-	-	-	Available	-	-	-	-
6.2 Options for administration (e.g., Injection, tabs, patches, epidural)	All available	-	-	-	-	Available	-	-	-	-

B) Psychotic and Non-Psychotic Disorders (Depression and PTSD)

Facility name	Erdogan Hospital - Public Facility					Shaafi Hospital – Private Facility					Forlanini Hospital – Public Mental Health Facility					Habeeb Hospital – Private Mental Health Facility				
Type of Treatment	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration /Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration /Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration /Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration /Admission fees
1.1 Outpatient treatment possibilities by psychiatrist	Available (both specialist and resident Psychiatrist doctors are available)	\$12	Depends whether the patient requires medicine or not.	Usually not required for psychotic and non-psychotic disorders, unless linked with	No registration fees are charged to outpatient	Available	\$10	\$15	\$150	Outpatient	Available	None	None	\$2	None	Available	\$10	\$20	\$20-30	\$10

Facility name	Erdogan Hospital - Public Facility					Shaafi Hospital – Private Facility					Foranini Hospital – Public Mental Health Facility					Habeeb Hospital – Private Mental Health Facility				
Type of Treatment	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration /Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration /Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration /Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration /Admission fees
				investigations for other diseases																
1.2 Inpatient treatment possibilities by psychiatrist	Not available (Erdogan Hospital does not provide inpatient psychiatrist treatment)	–	–	–	–	Not available	-	-	-	-	Available (but limited to male patients only due to the absence of a female inpatient wing)	-	-	-	-	Available	\$10	\$20	\$20-30	\$300-350
1.3 Outpatient treatment possibilities by psychologist	Partially available (Psychiatrist Doctors play the role of psychologist and counselling for patients)	\$12	Depends whether the patient requires medicine or not	Usually not required	No registration fees are charged to outpatient	Not available	-	-	-	-	Available	None	None	None	None	Not available	-	-	-	-
1.4 Inpatient treatment possibilities by psychologist	Not available	–	–	–	–	Not available	-	-	-	-	Available	None	None	None	None	Not available	-	-	-	-
1.5 Inpatient treatment for women suffering from psychiatric disorders	Not available	–	–	–	–	Not available	-	-	-	-	Not Available	-	-	-	-	Available	\$10	\$20	\$20-30	\$200-350
1.6 Inpatient treatment, including compulsory or confined admission	Not available	–	–	–	–	Not available	-	-	-	-	Not Available	-	-	-	-	Available	\$10	\$20	\$20-35	\$300-350

Facility name	Erdogan Hospital - Public Facility					Shaafi Hospital – Private Facility					Foranini Hospital – Public Mental Health Facility					Habeeb Hospital – Private Mental Health Facility				
Type of Treatment	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration /Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration /Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration /Admission fees	Availability	OP/IP consultation fees	Treatment fees	Lab test fees	Registration /Admission fees
1.7 Is there special housing (like protected apartments) for chronic psychotic patients with outpatient care?	Not available	–	–	–	–	Not available	–	–	–	–	Not Available	–	–	–	–	Not available	–	–	–	–
1.8 Psychiatric treatment: assisted living / care at home by psychiatric nurse	Not available	–	–	–	–	Not available	–	–	–	–	Not Available	–	–	–	–	Not available	–	–	–	–
1.9 Psychiatric long term clinical treatment (e.g. for chronic psychotic patients) by a psychiatrist	Not available (Erdogan Hospital does not provide inpatient psychiatrist treatment and refer such cases to other facilities if they require long term inpatient clinical treatment)	–	–	–	–	Not available	–	–	–	–	Available	None	None	\$2	None	Available	\$5	\$20	\$20-30	\$300-350

2.2 Availability and Accessibility of Medications

This section presents an overview of the range of medications available across selected pharmacies. The main areas of enquiries have been grouped into the following categories:

- **Registration:** Whether the medication is licensed by government authorities or not, formally listed under an approved list of essential medicines. Currently, this list is interim (2019).
- **Availability:** Describes the extent of a drug's stock and supply either i) full availability of the medication, ii) partial availability where supply has been temporarily interrupted

and iii) no availability where supply has been interrupted for lengthy periods.

- **Generic and Brand Names:** Variations of available drugs as marketed by manufacturers. Generic drugs are in most cases cheaper than brand names.
- **Dosage:** Required average quantities per prescription.
- **Form:** Options available for the drug's administration.
- **Number of units per container:** Numeric quantities enclosed within a singular packaging.
- **Price per container:** Purchasing cost for each singular packaging.

Facility Name		Shifaa Pharmacy								Ramadan Pharmacy								Shaafi Pharmacy							
Type of Medication		Reg	Availability	Generic name	Brand name	Dosage	Form	# of units /container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of units / container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of unit/ container	Price /container
1. DIABETES TYPE I AND II																									
1.1 Insulin injections	Fast acting: Insulin aspart, Insulin glulisine, Insulin lispro, Insulin human	Yes	Available in one dosage form	Insulin aspart	Novorapid flexPen	3ml	Available in one dosage form	100	\$6	Yes	Partly available; supply has been interrupted for 2 days	Insulin aspart/ Actrapid/ Novo Rapid	NovoRapid flex pen	3ml	Injection	100	\$6-7.5	Yes	Available	Insulin human / Insulin aspart/ Actrapid/ Novo Rapid	Actrapid /Flexpen	10 ml	Injection in one dosage form	100	\$7-10
	Intermediate-acting: Insulin isophane	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-

Facility Name		Shifaa Pharmacy								Ramadan Pharmacy								Shaafi Pharmacy							
Type of Medication		Reg	Availability	Generic name	Brand name	Dosage	Form	# of units /container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of units / container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of unit/ container	Price /container
	Long-acting: Insulin detemir, Insulin glargine, Insulin degludec	Yes	Available - stock is in stable supply	Insulin glargin	Lantus solostar	3ml	Available in one dosage form	100	\$6	Yes	Partly available; supply has been interrupted for 3-4 days	Insulin glargine is available	Lantus solostar	3ml/500mg	Injection/tablet	100/28	\$8/\$6	Yes	Partially available - it is currently out of the market	Insulin e	Mixtard	10 ml	Injection	100	\$7
1.1 Oral hypoglycemic agents/blood glucose lowering medication	Metformin	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	Yes	Available; stock in stable supply	Metformin	Metformin Hydrochloride/Pacific Pharma UK	500mg	Tablet	28	\$3/\$6	Yes	Available ; stock in stable supply	Metformin	Metformin/Juformin	500 mg	Tablet	30	\$6
	Gliclazide	Yes	Available - stock is in stable supply	Gliclazide	Gliclazide	60mg	Tablet	60	\$3.6	Yes	Available; stock in stable supply	Gliclazide	Gliclazide	80mg/60mg/30mg	Tablet	50/60	\$5/\$12	Yes	Available ; stock in stable supply	Gliclazide	Betanorm	60 mg	Tablet	60	\$8
2. PSYCHOTIC DISORDERS AND NON-PSYCHOTIC DISORDERS (DEPRESSION AND PTSD)																									
2.1 Anti-psychotic medication	Olanzapine	Yes	Available - stock is in stable supply -	Olanzapine	Olanzapine	10mg/5mg	tablet only in two dosage forms	28	\$4	Yes	Available; stock in stable supply	Olanzapine	Olanzapine	10mg/5mg	Tablet	28	\$3	Yes	Available ; stock in stable supply	Olanzapine	Olanzapine	5mg	Tablet	28	\$6
	Chlorpromazine	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	Yes	Available; stock in stable supply	Chlorpromazine	Chlorpromazine	100mg	Tablet in one dosage form	10	\$10	No	Not available	-	-	-	-	-	-
	Haloperidol	Yes	Available - stock is in	Haloperidol	Haloperidol	10mg/2ml 5 Amul.	Tablet only in two	50	\$3.5	Yes	Available; stock in	Haloperidol	Norodol	5mg	Tablet in one	50	\$15	Yes	Available ; stock in	Haloperidol	Norodol	5mg	Injection	5	\$10

Facility Name		Shifaa Pharmacy								Ramadan Pharmacy								Shaafi Pharmacy							
Type of Medication		Reg	Availability	Generic name	Brand name	Dosage	Form	# of units /container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of units / container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of unit/ container	Price /container
			stable supply -			5mg/50 tablets	dosage forms				stable supply				dosage form				stable supply						
	Risperidone	Yes	Available - stock is in stable supply -	Risperidone	Riculus	2mg	Tablet only in one dosage forms	20	\$3	Yes	Available; stock in stable supply	Risperidone	Riculus	1mg	Tablet in one dosage form	20	\$4	No	Not available.	-	-	-	-	-	-
	Clozapine	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	Yes	Available; stock in stable supply	Klozapine	Clonex	25mg	Tablet in one dosage form	50	\$12	Yes	Available ; stock in stable supply	Klozapine	Clonex	25 mg	Tablet in one dosage form	50	\$12
	Aripiprazole depot injection	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	No	Not available.	-	-	-	-	-	-
	Chlorprothixene	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	No	Not available.	-	-	-	-	-	-

Facility Name		Shifaa Pharmacy								Ramadan Pharmacy								Shaafi Pharmacy							
Type of Medication		Reg	Availability	Generic name	Brand name	Dosage	Form	# of units /container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of units / container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of unit/ container	Price /container
	Quetiapin	Yes	Available - stock is in stable supply -	Quetiapine	Quetiapine	100mg/30 tab. 10mg/28	Tablet only in two dosage forms	30	\$4	Yes	Available; stock in stable supply	Quetiapin	Gyrex	100mg/25mg/50mg	Tablet	30	\$5	Yes	Available ; stock in stable supply	Quetiapin	Ketiapin	25 mg	Tablet	30	\$4.5
	Pregabalin	Yes	Available - stock is in stable supply -	Pregabalin	Neurega	75mg	Capsule only in two dosage forms	65	\$6	Yes	Available; stock in stable supply	Pregabalin	Gaba-p	75mg	Capsule	10	\$4	Yes	Available ; stock in stable supply	Pregabalin	Neurega 75	75 mg	Capsule	5	\$4
	Gabapentin	Yes	Available - stock is in stable supply -	Gabapentin	Gabaset	300mg/50 capsule	Capsule only in one dosage forms	50	\$7	Yes	Available; stock in stable supply	Gabapentin	Sanigab	300mg	Capsule	10	\$5	Yes	Available ; stock in stable supply	Gabapentin	Sangbati n	300 mg	Tablet	30	\$9
2.2 Antidepressant medication	Amitriptyline	Yes	Available - stock is in stable supply -	Amitriptyline	Laroxyl	10mg/30 TAB. 25mg/50	Tablet only in two dosage forms	50	\$3.5	Yes	Available; stock in stable supply	Amitriptyline	Amitriptyline	10mg/25mg	Tablet	28	\$3	Yes	Available ; stock in stable supply	Amitriptyline	Amitriptyline	10 mg	Tablet	28	\$4
	Sertraline	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	Yes	Available; stock in stable supply	Sertraline	Sertraline	50mg	Tablet	28	\$5	Yes	Available ; stock in stable supply	Sertraline	Misol	50 mg	Tablet	28	\$6
2.3 Post-traumatic stress disorder (PTSD)/sedative medication	Diazepam	No	Not available. Ordering from abroad or from another pharmacy is	-	-	-	-	-	-	Yes	Available; stock in stable supply	Diazepam	Cozepam	5mg	Tablet in one dosage form	100	\$10	Yes	Available ; stock in stable supply	Diazepam	Neuril	10 mg/2ml	Injection	5	\$1

Facility Name		Shifaa Pharmacy								Ramadan Pharmacy								Shaafi Pharmacy							
Type of Medication		Reg	Availability	Generic name	Brand name	Dosage	Form	# of units /container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of units / container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of unit/ container	Price /container
			completely not possible																						
	Lorazepam	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	Yes	Available; stock in stable supply	Lorazepam	Lorans	2mg	Tablet in one dosage form	50	\$7.5	Yes	Available ; stock in stable supply	Lorazepam	Lorans	1mg	Tablet in one dosage form	50	\$10
2.4 Medicines for pain management	Ibuprofen	Yes	Available - stock is in stable supply -	Ibuprofen	Profinal/Suprafen/Apireks	600mg/400mg/400mg/100mg bottles	3 dosage tablets and 1 syrup	24	\$1.5	Yes	Available; stock in stable supply	Ibuprofen	Ibucron-400/	400mg for tablet and 200mg/5ml syrup	Tablet and syrup	10 tablets	\$2	Yes	Available ; stock in stable supply	Ibuprofen	Pedifen	400mg for tablet and 200mg/5ml syrup	Tablet and syrup	30 tablets	\$3
	Paracetamol	yes	Available - stock is in stable supply -	Paracetamol	Adol suppositories /paroltablets/minamolplus syrup/adol suspension /adol infant drops	250mg for suppositories. 500mg for tablets 100ml for infant drops. /100ml for suspension	Different dosage forms	30	\$1.6	Yes	Available; stock in stable supply	Paracetamol	Paracetamol	500mg BP and	Tablet and syrup	100 tablets	\$4	Yes	Available ; stock in stable supply	Paracetamol	Parol	500mg	Tablet and syrup	30 tablets	\$1.5

Facility Name		Shifaa Pharmacy								Ramadan Pharmacy								Shaafi Pharmacy							
Type of Medication		Reg	Availability	Generic name	Brand name	Dosage	Form	# of units /container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of units / container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of unit/ container	Price /container
	Morphine	No	-	-	-	-	-	-	-	yes	Available; stock in stable supply	Morphine Sulfate	Morphine Sulfas	100mg/ml	Injection	10	\$40	yes	Available ; stock in stable supply	Morphine Sulfate	Morphine Sulfas	100mg/ml	Injection	10	\$30
3. CARDIAC COMPLICATIONS/HEART FAILURE AND HYPERTENSION/HIGH BLOOD PRESSURE																									
3.1 Cardiac complications/heart failure	Digoxin	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	Yes	Available; stock in stable supply	Digoxin	Cardixin/Alexander	0.25mg/6.25mg	Tablet in one dosage form	40	\$5/\$4	Yes	Available ; stock in stable supply	Digoxin	Digoxin	250mg	Tablet in one dosage form	28	\$14
	Furosemide	Yes	Available - stock is in stable supply	Furosemide	Desal	40mg	Tablet only in one dosage forms	50	\$1.5	Yes	Available; stock in stable supply	Furosemide	Furosemide/Crescent	20mg/40mg	Tablet in two dosage forms	28	\$3/\$3.5	Yes	Available ; stock in stable supply	Furosemide	Furosemide/Desal	20mg/40mg	Tablet	28/50	\$3/12
	Spironolactone	Yes	Available - stock is in stable supply	Spironolactone	Aldactone	100mg	Tablet only in one dosage forms	16	\$2.6	Yes	Available; stock in stable supply	Spironolactone	Spironolactone/Aris Ali	50mg/100mg	Tablet in two dosage forms	28/20	\$4.5/\$6	Yes	Available ; stock in stable supply	Spironolactone	Aldactone	25mg	Tablet in one dosage form	20	\$10
3.2 Antithrombotic medicines/ blood thinning medicine	Acetylsalicylic acid	Yes	Available - stock is in stable supply	Acetylsalicylic acid	Aspirin	74mg	Tablet only in one dosage forms	56	\$5	Yes	Available; stock in stable supply	Acetylsalicylic acid	Aspirin/Accord	75mg/81mg	Tablet in one dosage form	28	\$3	Yes	Available ; stock in stable supply	Acetylsalicylic acid	Aspirin	75mg	Tablet in one dosage form	56	\$5
	Clopidogrel	No	Not available. Ordering from abroad or from another pharmacy is	-	-	-	-	-	-	Yes	Available; stock in stable supply	Clopidogrel	Clopidogrel/Torrent Pharma	75mg	Tablet in one dosage form	28	\$4.5/\$4	Yes	Available ; stock in stable supply	Clopidogrel	Aurobindo	75mg	Tablet in one dosage form	28	\$7

Facility Name		Shifaa Pharmacy								Ramadan Pharmacy								Shaafi Pharmacy							
Type of Medication		Reg	Availability	Generic name	Brand name	Dosage	Form	# of units /container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of units / container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of unit/ container	Price /container
			completely not possible																						
	Warfarin	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	2	\$3	Yes	Available; stock in stable supply	Warfarin	Warfarin/ Sanofi	3mg	Tablet in one dosage form	28	\$5/ \$7	No	Not available	-	-	-	-	-	-
3.3 Anti-hypertensive medication /medication for lowering high blood pressure	Amlodipine	Yes	Available - stock is in stable supply	Amlodipine	Norvasc	5mg	Tablet only in one dosage forms	30	\$2.8	yes	Available; stock in stable supply	Amlodipine	Amlodipine/Calender Park	5mg	Tablet in one dosage form	20/30	\$3	yes	Available ; stock in stable supply	Amlodipine	Amlodipine/Amitriptyline	5mg	Tablet in one dosage form	28	\$5/ \$6
	Bisoprolol	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	Yes	Available; stock in stable supply	Bisoprolol	Bisoprolol/Daiichi Saknyo	10mg	Tablet in one dosage form	30	\$5/ \$6	Yes	Available ; stock in stable supply	Bisoprolol Fumarate	Bisoprolol/Novartis Company	2.5 mg	Tablet in one dosage form	28	\$7
	Enalapril	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	Yes	Available; stock in stable supply	Enalapril	Enalapril/Medopha rma	5mg	Tablet in one dosage form	20/100	\$5/ \$10	Yes	Available ; stock in stable supply	Enalapril Maleate	Enalapril/Rudhipharma	5mg	Tablet in one dosage form	28	\$7/ \$4

Facility Name		Shifaa Pharmacy								Ramadan Pharmacy								Shaafi Pharmacy							
Type of Medication		Reg	Availability	Generic name	Brand name	Dosage	Form	# of units /container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of units / container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of unit/ container	Price /container
	Losartan	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	Yes	Available; stock in stable supply	Losartan	Losartan/Relon Chem	50mg	Tablet in one dosage form	28	\$3/\$4	Yes	Available; stock in stable supply	Losartan	Losartan/Glenmark	50mg	Tablet in one dosage form	28	\$7
3.4 Lipid-lowering medicine/c holesterol lowering medicine	Simvastatin	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	Yes	Available; stock in stable supply	Simvastatin	Simvastatin/Sandoz	20mg	Tablet in one dosage form	28	\$3	Yes	Available; stock in stable supply	Simvastatin	Coasting L	20mg	Tablet in one dosage form	28	\$9
4. KIDNEY DISEASES, INCLUDING DIALYSIS																									
4.1 Medicine for dialysis	Intraperitoneal dialysis solution	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-
5. CANCER																									

Facility Name		Shifaa Pharmacy								Ramadan Pharmacy								Shaafi Pharmacy							
Type of Medication		Reg	Availability	Generic name	Brand name	Dosage	Form	# of units /container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of units / container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of unit/ container	Price /container
Cancer	Chemotherapy medications	No	Not available. Ordering from abroad or from another pharmacy is completely not possible	-	-	-	-	-	-	Yes	Partly available; supply has been interrupted for 2 months	Two forms available; capecitabine and sorafenib	Capecitabine tablet and Sorafenib tablet	500mg/200mg	Tablet	30	\$35.25	No	Not available	-	-	-	-	-	-
	Immunotherapy	-	Not available.	-	-	-	-	-	-	-	Not available.	-	-	-	-	-	-	-	Not available	-	-	-	-	-	-
6. CHRONIC OBSTRUCTIVE LUNG DISEASE																									
Medicine for inhalation	Formoterol	Yes	Available - stock is in stable supply; available as a combination with budesonide	Formoterol	Formoterol	160/4.5mg	Other	1	\$8	Yes	Available; stock in stable supply	Available in mixed form formoterol and budesonide	Budased inhaler	40mg/200mg	Capsule/inhaler	60/1	\$12/\$15	Yes	Available; stock in stable supply	Formoterol	Foster	100mg	Tablet	28	\$16
	Budesonide	Yes	Available - stock is in stable supply - available as combination with formoterol fumarate	Budesonide	Budesonide	12/400mg	Other	1	\$8	Yes	Available; stock in stable supply	Available in mixed form formoterol and budesonide	Budased inhaler	40mg/200mg	Capsule/inhaler	60/1	\$12/\$15	No	Not available	-	-	-	-	-	-
	Fluticasone propionate	Yes	Available - stock is in stable supply	Fluticasone propionate	Seretide	250mcg+50mc	Available as inhaler	60	\$15	Yes	Available; stock in stable supply	Available in one form; Propionate	Flixotide/GSK	50mg	Inhaler	1	\$10-12	Yes	Available; stock in stable supply	Available in one form; Propionate	Dalman nasal spray	50mg/10mg	Other	120	\$7

Facility Name		Shifaa Pharmacy								Ramadan Pharmacy								Shaafi Pharmacy							
Type of Medication		Reg	Availability	Generic name	Brand name	Dosage	Form	# of units /container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of units / container	Price /container	Reg	Availability	Generic name	Brand name	Dosage	Form	# of unit/ container	Price /container
Tablets	Prednisolone	Yes	Available - stock is in stable supply	Prednisolone	GuPison e tablet / Xilone syrup	5mg /5mg	Tablets and syrup	20	\$1.4	Yes	Available; stock in stable supply	Prednisolone	Prednisolone/Strides Pharma	5mg	Tablet in one dosage form	20/28	\$3	Yes	Available ; stock in stable supply	Prednisolone	Gupisone	5mg	Tablet in one dosage form	20	\$4-6
Storage facilities																									
How is medication stored?		Refrigerators and shelves								Refrigerators and shelves								Refrigerators and shelves							
Describe the key features (eg. electricity, refrigerators, etc)										Some drugs stored in refrigerators and some other drugs stored in normal room temperature; Electricity, AC, fridge are all available in this pharmacy								Some drugs stored in refrigerators and some other drugs stored in normal room temperature; Electricity, AC, fridge are all available in this pharmacy							