



**OFFICE OF THE AUDITOR GENERAL
OF STATE FINANCES, RWANDA**

**PERFORMANCE AUDIT REPORT ON PROCUREMENT AND
MANAGEMENT OF DRUGS AND MEDICAL SUPPLIES AND ITS
IMPACT ON HEALTH CARE AT UNIVERSITY TEACHING HOSPITAL-
KIGALI (UTH-K / CHUK)**



April 2016

**PROCUREMENT AND MANAGEMENT OF DRUGS AND MEDICAL SUPPLIES AND
ITS IMPACT ON HEALTH CARE AT UNIVERSITY TEACHING HOSPITAL-KIGALI
(UTH-K/ CHUK)**

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ACRONYMS AND ABBREVIATIONS

CTAMS	Cellules de Technique d’Appui aux Mutuelles de Sante
DH	District Pharmacy
Frw	Rwandan Francs
MINECOFIN	Ministry of Finance and Economic Planning
MoH	Ministry of Health
MPPD (former CAMERWA)	Medical Procurement and Production Department
RBC	Rwanda Biomedical Center
UTH-K / CHUK	University Teaching Hospital- Kigali
WHO	World Health Organization

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GLOSSARY OF TERMS

Essential medicines ¹	These are medicines that satisfy the priority health care needs of the population. They are selected with due regard to public health relevance, evidence on efficacy and safety, and comparative cost-effectiveness
Medical Supplies ²	Items that needs to be replaced on a routine basis, including: disposables, single use items, e.g. disposable syringes and needles; expendables (sometimes called consumables), items that are used within a short time, e.g. cotton wool, laboratory stains and tape; reusable items, e.g. catheters and sterilisable syringes; and other items with a short life span, e.g. thermometers.
International Competitive Bidding	<p>Bidding open to all bidders, including nationals, local and foreign bidders or foreign suppliers.</p> <p>It is advertised both nationally and internationally and is open to all who need to bid.</p>
Referral Hospital	A referral hospital (also called a tertiary hospital , tertiary referral center , or tertiary care center , or tertiary center) is a hospital that provides tertiary care, which is health care from specialists in a large hospital after referral from primary care and secondary care. Tertiary centers usually include the following: a major hospital that usually has a full complement of services including pediatrics, obstetrics, general medicine, gynecology, various branches of surgery and psychiatry or a specialty hospital dedicated to specific sub-specialty care (pediatric centers, Oncology centers, psychiatric hospitals). Patients will often be referred from smaller hospitals to a tertiary hospital for major operations, consultations with sub-specialists and when sophisticated intensive care facilities are required.

¹ http://www.who.int/topics/essential_medicines/en/

² Medical supplies and equipment for primary health care .A practical resource for procurement and management, page by Manjit Kaur and Sarah Hall, page 1

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1. EXECUTIVE SUMMARY

The University Teaching Hospital of Kigali (UTH-K) is located in the Centre of Kigali City. It was built in 1918. In 1928, it worked as health center. In 1965, it became a Hospital. From April 1994 up to now, it is serving in the capacity of Referral Hospital. With the enactment of law No. 41/2000 of 7/12/2000 on the establishment and organization of the University Teaching Hospital "UTH", UTH-K became a public institution with legal personality. Its main mission is to ensure the provision of care to the population and education, develop clinical research and provide technical support to District Hospitals.

To satisfy and meet the priority health care needs of the population, the referral hospital should manage essential drugs and medical supplies at acceptable level. Before 2012, all drugs and medical supplies were procured by UTH-K its self but from 2012 the procurement was only executed by MPPD.

UTH-K has a responsibility of providing a list of annual needs for drugs and medical supplies and send it to MPPD. The latter delivers to UTH-K the procured drugs and medical supplies upon submission of purchase orders.

Drug shortages posed a serious challenge for health care and often interfered with patient care. Patients using mutual health insurance scheme were complaining about the inadequate provision of medical services and some of them were purchasing drugs from private pharmacies where amounts paid are not reimbursed by their insurance.

I therefore carried out a performance audit to assess the effectiveness of procurement and management of drugs and medical supplies at UTH-K and its impact to healthcare.

Below I highlight the key findings noted and recommendations:

PROCUREMENT OF DRUGS AND MEDICAL SUPPLIES

- **Delays in submitting requests for replenishment of drugs and medical supplies:** UTH-K has been complying with the procurement law which requires procuring entities to submit their procurement plan at the beginning of the year. However, UTH-K has not been considering agreements with MPPD that requires hospitals to submit their needs 6 month before the date on which they expect the needed drugs and medical supplies to be availed³. This is because MPPD estimates the time of procurement processes to take 6 months. The assessment done to check when requests were submitted to MPPD for the last 3 years shows that UTH-K submitted requests with delays.
In addition to this, requests were submitted while there was no stock or the stock available could not serve for at least 6 months (time required for procurement). This has been leading to stock

³ MoU between RBC/MPPD and its customers, article 2 page no 3

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out ranging from 14 to 458 days and above when awaiting MPPD to avail the needed drugs and medical supplies. (See details in section 5.1.1).

- **Delays in process of procurement of drugs and medical supplies:** The review of procurement documents from MPPD revealed that there is a delay ranging between 8 and 132 days in processing tenders of acquiring drugs and medical supplies. Where MPPD did not manage to provide the requested drugs and medical supplies after the above delay, UTH-K started the procurement process which also delayed from 16 to 183 days. This impacted negatively on medical services which were expected to be provided by UTH-K (see details in section 5.1.2).
- **Failure to deliver all drugs and medical supplies by MPPD:** MPPD has responsibilities of procuring all needed drugs and medical supplies for all health facilities in the country including UTH-K. The analysis of annual requests made by UTH-K to MPPD indicated that MPPD availed only 44%, 65% and 33% of the requested items for the year 2012/2013, 2013/2014 and 2014/2015 respectively. This means that 67% of drugs and medical supplies needed in UTH-K for the year 2014-2015 were not availed and clients had to purchase in private pharmacies. It is a very big challenge for clients using mutual health insurance because they are not reimbursed money paid when purchasing drugs in private pharmacies.

This case contributed to the stock out experienced by UTH-K and affected negatively its service delivery. (See details in section 5.1.3)

- **Inappropriate procurement law in regard to acquisition of drugs and medical supplies:** The procurement law in use is generic and not appropriate for drugs and medical suppliers. It is not very flexible about handling emergency cases, the later require non objection to be provided by RPPA after justification from UTH-K and MPPD accompanied by a confirmation from the Ministry of Health specifying that such procurement is urgent and is in public interest. In addition to this, suppliers request an advance payment without providing a bank guarantee or require advance payment of 100% while the law authorizes only 20%. This requires also special authorization which takes time, and all this contribute to delaying the process of getting drugs and medical supplies in the hospital. (See details in section 5.1.4).

MANAGEMENT OF PROCURED DRUGS AND MEDICAL SUPPLIES

Despite the issues raised above caused by inadequate procurement planning and procurement processes, procured drugs and medical supplies were not properly managed and affected the healthcare provided by UTH-K to its clients.

- **Recurring stock out of drugs and medical supplies affecting service delivery:** The review of stock management system “Sage 100 Gestion commerciale⁴” for the period 1/07/2013 to 17/11/2015 revealed **1,191 cases** of stock out for drugs and medical supplies in the hospital,

⁴ The software used by UTH-K to manage drugs and medical supplies

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for a period ranging from **3 to 734 days**. In the above review, there are cases where one drug or medical supply ran out of stock several time. As at 17th November 2015 (the time of audit), **397 items** were not yet replenished.

In addition to this, 24 cases of stock out for 11 types of anesthesia were out of stock for a period ranging from **9 to 366 days and above**. This impacted negatively the healthcare services provision. (See details in section 5.2.1).

- **Lack of stock re-order level of drugs and medical supplies:** The analysis made by comparing the request made by UTH-K to MPPD on 04th August 2014 and the status of the stock at the same date indicated that UTH-K re-ordered drugs and medical supplies when **20 % and 21% of requested drugs and consumables** respectively were out of stock.

In addition to this, the replenishment took a long time ranging from **14 to 458 days** and at time of audit (November 2015) 60 items were not yet replenished (See details in section 5.2.2)

FINANCIAL VIABILITY

- **Inaccurate tariff being used by UTH-K:** UTH-K statistics for the last 3 years show that 80% of its clients are members of mutual health insurance scheme (tariff A), 14% are member of MMI, Radiant, RSSB, Mutual health schemes for University of Rwanda (tariff B) while 6% are private without insurance cover.

The analysis made on 20 medical services in applying the tariff in use showed that the payment made by 80% of UTH-K clients is 37% of actual cost incurred on them (beneficiaries of mutual health scheme) while 14% of beneficiaries are paying 67% of actual cost (MMI, RSSB and Mutual health schemes of UR)

The tariff in use by UTH-K was last updated in 2009. When determining the tariff to be used from 2012, the Ministry of Health arbitrarily added 20% from the tariff which was in use in 2009. We have no evidence that elements of costs such as costs of medical services inputs as well as the inflation have been considered in setting the tariff which is use since 2012 to date. (See details in section 5.3.1).

OVERALL CONCLUSION

There is a chronic stock out of drugs and medical supplies in UTH-K and this is affecting the quality of healthcare delivered to its clients. This problem emanate mainly from a number of weaknesses including:

Delays in submitting requests to MPPD and very long delays in procurement processes leading to delays in availing drugs and medical supplies. When these requests reach MPPD, the latter procures very little quantities which are not enough to serve the hospital. The procurement law in use also does not much attract bidders as it contains provisions which are judged to be too much transactions for bidders and is not flexible when handling emergency issues.

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The inadequate stock management where there is no stock re-order level, requests are made when the stock is already out. The inaccurate tariff in used by UTH-K is leading the hospital to operate at loss and weakens its capacity of replenishing the stock.

OAG is of the view that once these weaknesses are addressed, UTH-K will be well positioned to effectively procure and manage drugs and medical supplies and deliver the quality healthcare.

OVERALL RECOMMENDATION

- (i) The Ministry of Health should intervene urgently in ensuring that:
 - MPPD puts in place a system that enables them to purchase all drugs and medical supplies for health facilities.
 - The tariff of medical services is urgently reviewed taking into consideration the actual costs.
- (ii) MPPD in consultation with Ministry of Health should urgently request special procurement guidelines for drugs and medical supplies to solve the problem of stock out of drugs and medical supplies in hospitals.
- (iii) UTH-K should put in place an appropriate system of stock management of drugs and medical supplies and ensure that stock re-order level is established and followed.

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Kigali
..... 2016

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2. INTRODUCTION

2.1 Terms of reference for the audit

In accordance with Article 165 of the Constitution of the Republic of Rwanda of 2003 revised in 2015, and Articles 6 and 14 of Law n° 79/2013 of 11/09/2013 determining the mission, organization and functioning of the Office of the Auditor General of State Finances (OAG), I carried out a Performance audit of the procurement and management of drugs and medical supplies and its impact to health care at University Teaching Hospital-Kigali (UTH-K) for the period 1st January 2012 to 30th June 2015.

2.2. Background

The University teaching hospital of Kigali is located in the Centre of Kigali city (Nyarugenge District). It was built in 1918. In 1928, it worked as health center. In 1965, it became a Hospital. From April 1994 up to now, it is serving in the capacity of one of Referral Hospitals in Rwanda. With the enactment of law No. 41/2000 of 7/12/2000 on the establishment and organization of the University Teaching Hospital "UTH", UTH-K became a public institution with legal personality known as "University Teaching Hospital of Kigali".

Its main mission is to ensure the provision of healthcare to the population and education, develop clinical research and provide technical support to District Hospitals.

Drug shortages posed a serious challenge for health care and often interfered with patient care. Patients were complaining about the inadequate provision of medical services and some of them were purchasing drugs from private pharmacies which are not reimbursed by their Insurance scheme. UTH-K was meant to provide quality of health care to the population. To satisfy and meet the priority healthcare needs of the population, the referral hospital has to manage drugs and medical supplies at acceptable level. They are selected with due regard to public health relevance, evidence on efficacy and safety, and comparative cost-effectiveness.

Hospitals must consider and manage efficiently essential drugs and medical supplies as they decide if and how to limit or expand the medicines they are trying to secure. Despite inclusion on the World Health Organization Model of medicines that should be considered essential, ultimately each country is responsible for determining which of them are best suited for the primary Health care needs of its population⁵.

⁵ Deliver Project report on commodity security for essential medicines, funded by USAID ,Published in April 2011,page 11

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2.3 Necessity (reasons) for the audit

Following concerns by UTH-K patients using Mutual Health Insurance Scheme over lack of some of the commodities that are not available where UTH-K oblige them to purchase them in private pharmacies, and the insurance scheme cannot reimburse them.

The public outcry on lack of essential drugs at the District Hospital which was caused by late of payments to district pharmacy so the pharmacy could not supply more drugs on credit, the patients affected by stock outs were advised to buy prescribed drugs from pharmacies outside the hospital⁶.

The outcry was noted in Kibagabaga Hospital (one of 40 district Hospitals). UTH-K was selected as a case study because it serves more people than a district Hospital. The other reason is that the supplier of drugs and medical supplies is the same for both Referral Hospitals and District Hospitals.

⁶ New times of January 4th 2013 (<http://www.newtimes.co.rw/section/article/2013-01-04/61529/>)

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3. AUDIT DESIGN

The audit was conducted in accordance with the International Organization of Supreme Audit Institutions Auditing Standards and guidelines in the Office of the Auditor General's Performance Audit manual. The standards require that the audit is planned in a manner which ensures that an audit of high quality is carried out in an economic, efficient and effective way and in a timely manner.

3.1 Scope

Audit object: The audit focused on all activities undertaken by UTH-K in relation to the procurement and management of drugs and medical supplies and its impact on healthcare. UTH-K was chosen because it is one of the referral hospitals which receives many patients referred by district hospitals across the country.

Geographical coverage: The audit was carried out at UTH-K Head offices especially in the Procurement, Pharmacy and Finance units.

Period covered: The audit covered the period starting from 1st January 2012 to 30th June 2015.

Sampling used: I sampled 20 medical services from the tariff of health care services established by the Ministry of Health in 2012. The sample was taken randomly by taking medical services which are common and general for many patients. The sampled services were used to compare the costs of providing medical services and amount paid by the patients according to the tariff in use.

3.2 Objective of the audit

The audit sought to assess whether drugs and medical supplies purchase and supply were well planned, implemented and achieved and whether UTH-K has monitored the procurement and management of drugs and medical supplies and met the set objectives for the healthcare.

3.3 Key audit questions

The Performance audit answered the following questions:

- i. To what extent does the procurement system affect timely replenishment of stock of drugs and medical supplies?
- ii. How effective is UTH-K management system of drugs and medical supplies and how does it affect service delivery?
- iii. To what extent UTH-K is financially capable to replenish stock of drugs and medical supplies?

3.4. Audit methodology (sources of information and methods of data collection)

The following methods were used to collect data:

- **Interviews:** Primary data was collected through interviews carried out with key staff of UTH-K like Director General, Procurement Manager, Chief Pharmacist and Director of Finance

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and Head of MPPD in order to obtain facts about management of drugs and medical supplies. The details of key staff and stakeholders interviewed are provided in **Appendix 1**.

- **Documentary review:** Secondary data was mainly collected through review of various documents including strategic and action plans, activity reports, financial reports and contracts between UTH-K with various clients. Details about key documents reviewed are in **Appendix 2**.

3.5. Funding for UTH-K

UTH-K is mainly funded by the government of Rwanda, development partners and its internally generated revenues. For more details about funding, see table below.

Table no 1: Funding for UTH-K

Year	Development partners(in Frw)	Government (in Frw)	Internally Generated revenues (in Frw)	Total (in Frw)	Funds allocated to the purchase of drugs and medical supplies(in Frw)
2012/2013	42,336,316	2,606,387,332	3,162,006,625	5,810,730,273	2,213,784,766
2013/2014	21,966,282	4,083,143,529	3,520,689,056	7,625,798,867	2,165,107,846
2014/2015	0	4,644,204,087	3,837,278,993	8,481,483,080	2,197,405,954

Source: UTH-K financial statements for the years 2012/2013, 2013/2014 and 2014/2015

4. SYSTEMS AND PROCESS DESCRIPTIONS

4.1 Procurement of drugs and medical supplies

4.1.1. Planning phase

The procurement unit is responsible for carrying out the procurement process from the planning to the completion of the contract execution. The main activity of the unit is the preparation of annual procurement plan and its execution.

4.1.2. Procurement process by MPPD

The procurement of drugs and medical supplies for public hospitals and health centers is entrusted to MPPD. At the beginning of each financial year, UTH-K submit a list of annual needs for drugs and medical supplies to (MPPD). It contains category of drugs and medical supplies, product description, additional specifications if any and prices.

MPPD follows the national procurement laws and use “International Open Competitive Bidding” method. Using this method, it takes an average of 6 months to get drugs and medical supplies supplied. Once MPPD is unable to get all needed drugs and medical supplies, it communicates to UTH-K, giving a list of drugs and medical supplies which they failed to get. That communication gives UTH-K the authority of proceeding with procurement of those drugs and medical supplies not obtained.

The national laws on public procurement law No 05/2013 of 13/02/2013 article 30 stipulates that the publication of international tender should take time ranging between 45 and 90 calendar days while it takes 30 days for national tender, the evaluation of the tender 21 days maximum and 7 days for notification while the delivery period is specified in the tender document and or agreed between the contracting parties.

4.2. Management of drugs and medical supplies

4.2.1 Storage and store control

Receiving drugs and medical supplies⁷: At least two people receive and check supplies. Supplies received are checked before putting them in the store. This is to avoid a discovery of an item which is incorrect, damaged or poor quality when it needs to be used and when it is too late to ask the supplier for a replacement. The following simple checks can avoid these problems and save time in the long term.

- Check the delivery note, packing list and contents against a copy of the order.
- Check the outer and inner packaging to make sure it is intact and for signs of damage, for example, spots, breakages, leaks, missing labels, tape or lids.

⁷ Procurement and management of supplies and equipment, page 27

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- Check labels are legible and include complete information, for example, the approved name, strengths, storage instructions, manufacturer's details, and expiry date.
- Check the shelf life and expiry date. Do not accept items if the expiry date has passed. Only accept items nearing the end of their shelf life if you are sure that they can use before the expiry date. The expiry date is the time up to which the manufacturer guarantees the quality of the product and many products, e.g. laboratory reagents, sterile dressings and syringes, are only fit for use for a limited time.
- Check that the manuals are kept together in a dry, safe and easily accessible place.

Stock control

Stock control includes keeping accurate and reliable records of stock received and issued, stock taking (checking stocks on a regular basis), and carrying out an inventory of stock at least once a year. A stock control system uses tools such as stock record cards and a stock control ledger. Effective stock control is important to order the right quantities of supplies and equipment and, ideally, a stock take should be carried out before placing an order.

Store records

Every health facility needs a system for recording stock movement. Reliable record keeping is very important, because errors caused by inappropriate record keeping will affect service delivery. For example, if stock records used to estimate requirements are not accurate, you may order too much or too little. Accurate record keeping depends on easy to use, well-designed methods and forms. Stock cards (stock record cards) and stock control ledgers are the simplest. They provide information about quantities received, issued and in stock at any time, can be used to calculate orders, and are a useful tool for preventing shortages and over-stocking. Stock cards help supervisors to monitor overall consumption and use by different services, and to check stock levels, assess wastage and identify theft. UTH-K uses a software called "Sage 100 Gestion Commerciale" to manage its stock.

4.2.2 Requisition and distribution of drugs and medical supplies

Pharmacy unit is responsible for the management, distribution and dispensing of medicines, medical consumables, reagents and laboratory consumables and massive fluid infusion and magisterial products to our- patients and inpatients at UTH-K.

Main activities of the Pharmacy: Its main activities are the distribution, stocking, monitor the use of pharmaceuticals by the hospital services, and conduct a physical inventory of distribution pharmacies and replenishment of pharmaceutical products. During requisition and distribution of products, it is important to apply the strategy "the first to be expired, first taken ", "first in, first out" and the follow-up by lot.

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Requisition to central Pharmacy⁸ : Requisitions are made according to the already established schedule and must be well made. Patients with medical prescriptions get medicines from distribution centers /units or from the central Pharmacy depending on each case and whether they are out-patients or in-patients.

4.2.3 Inventory control⁹

The following are the daily, weekly and monthly task

- Monitor the storage conditions and maintain the security and the safety of the store
- Monitor the quality of products (inspect visually products and check their best before dates)
- Update the registers of stocks and keep up to date files;
- Sort out the out-of-date stocks and remove them of the store
- Make the monthly consumptions and clear the variations of it to take necessary measures;

4.2.4 Payments of suppliers and recovery of bills of distributed drugs and medical supplies

Payment to suppliers: UTH-K procures drugs and medical supplies from both private suppliers and MPPD and pays them upon delivery. It recovers debts from various customers through Finance department- Recovery section.

Billing to customers : The billing to customers is made using the tariff of health care services established by the Ministry of Health in its ministerial instruction no 20/58 of 03 April 2012.

Recovery section: Finance unit collects money from UTH-K customers (patients) for sales of drugs and medical services provided. The recovery section deals with invoicing and follow up of payments from UTH-K customers. The main group of customers is made of private institutions, prisons, insurance companies, RSSB and Mutual Health Insurance Scheme who signed contracts with UTH-K for the provision of health services. The signed contract stipulates that invoices should be raised by the recovery section each 15 day of the month and the payment should be made within 30 days following the reception of the invoice.

4.2.5 Statistics of UTH-K customers for the last 3 years

UTH-K customers are classified into 3 main categories namely mutual health insurance scheme representing 80%, other insurances representing 14% and 6 % for private clients. For more details see table below.

⁸ Procedures of management of the Pharmaceutical products in UTH-K, page 4

⁹ (Procedures of management of the Pharmaceutical products in UTH-K, page 8)

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Table no 2: Categories of UTH-K customers

No	Group of customers (Beneficiaries)	2012/2013	2013/2014	2014/2015	Total	Average for the last 3 years
1	Mutual Health Insurance	153,810	142,623	150,345	446,778	80%
2	Others insurances	18,251	35,021	26,677	79,949	14%
3	Private	6,364	13,049	11,507	30,920	6%
	Total	178,425	190,693	188,529	557,647	100%

Source: UTH -K report from statistics section, 10th November 2015

4.3. UTH-K organizational structure

UTH-K is under the Ministry of Health. It is headed by the Board of Directors and the Director General who is seconded by 4 Heads of Departments namely Finance, Administration and Human Resources, Medical and Nursing. Details about organizational setup has been designed and presented under the **appendix 3**.

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5. FINDINGS

5.1. PROCUREMENT OF DRUGS AND MEDICAL SUPPLIES

5.1.1. Delays in submitting requests for replenishment of drugs and medical supplies to MPPD

The procurement law¹⁰ requires all procuring entities to submit their procurement plans to Rwanda Public Procurement Authority (RPPA) and publish the plans on the websites in the first month of the financial year. MPPD which is charge of procuring drugs and medical supplies for all health facilities in the country requires their stakeholders (hospitals) to submit their needs 6 month before the date on which they expect the needed drugs and medical supplies to be availed¹¹. This is because MPPD estimates the time of procurement processes to take 6 months. The assessment done to check when the above plans were submitted to MPPD for the last 3 years shows that UTH-K submitted procurement plans in the beginning of financial year as required by the law but has not been considering time required to procure drugs and medical supplies as required by the Memorandum of Understanding (MoU) with MPPD.

This contributed to delays in availing drugs and medical supplies in the hospital and subsequently contributed to stock out.

The table below shows delays in submission of needs to MPPD as per requirement of the MoU:

Table no 3: Delays in submitting annual needs for drugs and medical supplies

No	Year	Date of request	Reasonable date of request	Delays in months
1	2012/2013	20 th June 2012	1 st January 2012	5.7
2	2013/2014	18 th July 2013	1 st January 2013	6.6
3	2014/2015	4 th August 2014	1 st January 2014	7.2

Source: UTH-K annual needs requests to MPPD for the last 3 years

Status of the stock at the time of submission of requests

The MoU specifies that, for items that are available at MPPD's stock, the delivery must be made within 7 days upon receipt of purchase order while for items that requires to be purchased, a minimum of 6 months is necessary in order to comply with procurement procedures¹².

This means that for UTH-K to get drugs and medical supplies without a stock out, it has to submit its request while it still has a stock that can serve at least for 6 months.

This has not been the case, UTH-K has been submitting requests to MPDD while there was no stock or the stock available was less than 100 items and could not serve for at least 6 months as shown by the analysis of the request made on 4th August 2014. **Refer to appendix 4 for details.**

¹⁰ Article 2 of Ministerial order No 001/14/10/TC of 19/02/2014

¹¹ MoU between RBC/MPPD and its customers, article 2 page no 3

¹² MoU between RBC/MPPD and its customers, article 2 and 3 page no 3

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This has been leading to stock out ranging from **14 to 458 days and above** when awaiting MPPD to avail the needed drugs and medical supplies. Refer to table below and **appendix 5** for details.

Table no 4: The status of the stock at the time of request to MPPD

S/N	Category	Quantity requested while the stock was 0	Quantity availed in the period ranging from 14-458 days	Quantities not availed since 04/08/2014 to the time of audit (November 2015)
1	Drugs	74	54	20
2	Medical consumables	75	44	31
3	Laboratory reagents	51	42	9
	Total	200	140	60

Source: UTH-K Stock movement from Sage 100 commerciale

Recommendation

UTH-K should prepare their request of drugs and medical supplies and submit them to MPPD within time, taking into consideration the time of procurement and the security stock that will be used while awaiting MPPD to deliver.

Management comment

We submitted our request early beginning of each year as per procurement law and there is no requirements from MPPD or from anywhere else per which we are required to submit the annual needs by January. The problem of stock out is mainly caused by the fact that MPPD did not deliver all the requested items and affect the stock management.

Auditor's comments

MPPD as an institution in charge of procuring drugs and medical supplies for all public health facilities requires 6 months minimum in order to comply with procurement procedures. This is stated in the MoU between MPPD and health facilities. This implies that the health facility should make request to MPPD 6 months before the date they need drugs and medical supplies.

5.1.2. Delays in process of procurement of drugs and medical supplies

The procurement of drugs and medical supplies for public hospitals and health centers is entrusted to MPPD. Once MPPD is unable to get all needed drugs and medical supplies, it communicates to UTH-K, giving a list of drugs and medical supplies which they failed to get. That communication gives UTH-K the authority of proceeding with procurement of those drugs and medical supplies not obtained.

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5.1.2.1. Delays in procurement by MPDD

The national laws on public procurement law No 05/2013 of 13/02/2013 article 30 stipulates that the publication of international tender should take time ranging between 45 and 90 calendar days, the evaluation of the tender 21 days maximum and 7 days for notification while the delivery period is specified in the tender document and or agreed between the contracting parties.

The review of procurement documents revealed that there is a delay ranging between 8 and 132 days in processing 4 tenders out of 6 of acquisition of drugs and medical supplies. The above delays were noticed in the review of tenders awarded by MPPD in the process of acquiring drugs, medical consumables and laboratory reagents. On the other hand, the procurement process for 2 tenders took a short time and were executed 8 and 29 days before the set time. For the procurement of drugs and medical supplies, international competitive bidding method is used by MPPD in order to get all needed products. This method is also used to encourage international bidders because there are no drugs industries in the country and local pharmacies cannot supply all needed quantities.

Table no 5: Time taken to finalize the tender issued by MPPD

Tender name/Details	Expected time	Actual time taken	Delays in days
Tender No 073/SS/2013-2014/CHUK/CHUK/MPPD	88	59	(29)
Tender no MPDD-CHUK-PU-RFQ-038-2013-2014	52	44	(8)
Tender No 049/C/SS/2014-2015/CHUK-CHUB/MPPD	178	186	8
Tender No 048/C/SS/2014-2015/CHUK-CHUB/MPPD	93	122	29
Tender No MPD/DA/AO/O/220/2012	208	273	65
Tender No 072/IOCB/2013/2014/CHUK-CHUB/MPPD	208	340	132

Source: MPPD tenders for the last 3 years

Delayed procurement by MPPD limited UTH-K from having drugs and medical supplies on time and contributed to stock outs observed by UTH-K during the period and impacted negatively on medical services which were supposed to be provided by UTH-K.

Recommendations

- MPPD should reduce the time taken while procuring drugs and medical supplies and make sure they are procured within 6 months maximum.
- UTH-K should make regular follow up and ensure that the requested drugs and medical supplies will be procured and delivered within reasonable time.

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Management comments by MPPD

In an effort to mitigate this problem, RBC/MPPD has requested and was granted by the Rwanda public Procurement Authority (RPPA) a second Internal Tender Committee. It started activities in February 2016.

With this second ITC in place MPPD is better equipped to handle this high volume of tenders and meet the requirement of 6 months in the procurement process.

5.1.2.2.Delays in procurement of drugs and medical supplies by UTH-K

There are delays ranging between 16 and 183 days in processing 4 tenders out of 4 issued by UTH-K. These delays are adding on delays by MPPD as the process starts when MPPD has given statement of non-availability to CHUK. The delays were noticed in the review of 4 tenders executed by UTH-K for the process of acquiring drugs and medical supplies.

The national laws on public procurement law No 05/2013 of 13/02/2013 article 30 stipulates that the publication of national tender should take 30 calendar days , the evaluation of the tender 21 days maximum and 7 days for notification while the delivery period is specified in the tender document and or agreed between the contracting parties.

The review of tender documents at UTH-K indicated that the process took long time compared to the actual time it should have taken. For more details see table below:

Table no 6: Time taken to finalize the process of procurement by UTH-K

Tender name/Details	Expected time	Actual time taken	Delays in days
11-12/CHUK/F/IR/NC/23 for the supply of various pharmaceutical products	128	311	183
13-14/CHUK/F/R/IR/RFQ/36 for the supply of various pharmaceutical products	47	92	45
14-15/CHUK/IR/RFQ/01 for the supply of various pharmaceutical products	64	106	42
14-15/CHUK/F/IR,CDC,COAG&Govt/NCB/02 for the supply of health commodities	133	149	16

Source: UTH-K tenders for the last 3 years

Delays were mainly noted in the evaluation and delivery period by suppliers. This limited UTH-K from having drugs and medical supplies on time and contributed to stock outs observed in the hospital. It impacted negatively on medical services which were expected to be provided by UTH-K.

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Recommendations

UTH-K should reduce the time taken in evaluating tenders and ensure that drugs and medical supplies are delivered within the time agreed in the contract.

Management comment

The observation is noted. We will spare additional time to the internal tender committee so as to reduce the time taken during the evaluation process. However, the problem of late delivery by various suppliers is beyond UTH-K control as we always deduct penalties for late deliveries.

5.1.3. Failure to deliver all drugs and medical supplies by MPPD

According to ministerial instruction referenced no 20/3425/PTF/2009 of 18th December 2009, MPPD is responsible for procuring all needed drugs and medical supplies for all health facilities in the country including UTH-K. Upon receipt of requests from UTH-K, MPPD start procurement process to acquire the requested items. Once they realize that they will not get all the requested quantities, they send back a statement of non-availability to UTH-K, listing items which will not be availed. From the above statement, UTH-K is required to undergo its procurement process in order to acquire those items not availed by MPPD.

The analysis of annual requests made by UTH-K to MPPD indicated that MPPD availed only 44%, 65% and 33% of the requested items for the year 2012/2013, 2013/2014 and 2014/2015 respectively. See table below for more details.

Table no 7: Comparison of drugs and medical supplies procured by MPPD versus request made

Year	Requested items (A)	Availed drugs and medical supplies (B)	Not availed (C)	Percentage of availed to total requested items (D)= (B*100/A)
2012-2013	661	289	372	44%
2013-2014	1,200	781	419	65%
2014-2015	1,097	358	739	33%

Source: UTH-K requests to MPPD and statement of non available items from MPPD

This means that 67% of drugs and medical supplies needed in UTH-K for the year 2014-2015 were not availed and clients had to purchase in private pharmacies. It is a very big challenge for clients using mutual health insurance because they are not reimbursed money paid when purchasing drugs in private pharmacies.

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80% of UTH-K clients being beneficiaries of mutual health insurance scheme, some do not have money to buy drugs and medical supplies, as it is the Government which pays even their subscription fees.

It is worth mentioning that the procurement processes used by MPPD are the ones used by UTH-K. If MPPD fails to get drugs and medical supplies yet it purchases big quantities for all health facilities, it is more difficult for UTH-K to get those items.

These cases contributed to the stock out experienced by UTH-K and affected negatively its service delivery.

Recommendation

- The Ministry of Health should intervene urgently to solve the problem of MPPD not purchasing all drugs and medical supplies to health facilities.
- MPPD should put in place a system that enable them to purchase all drugs and medical supplies for health facilities.

Management comment from MPPD

In an effort to mitigate problems, MPPD is now holding regular meetings with the UTH-K procurement officers to assess together on the status and anticipate which products are at risk of being stocked out so that they can be procured by alternative methods.

Management comment from UTH-K

The issue of delivering few items compared to the request made have been discussed in many meetings. However, an official communication will be sent to the MoH whenever a statement of non-availability is sent to us by MPPD, to enable the ministry making a follow up of the problem.

5.1.4. Inappropriate procurement law in regard to acquisition of drugs and medical supplies

When procuring goods and services, all public institutions use one common procurement law for all types of items to be procured. There are challenges in procurement of drugs and medical supplies using the same law.

The procurement law in use is not very flexible about handling emergency cases because when drugs and medical supplies are needed to solve the urgent needs, there is necessity to use shortlist, single sourcing or request for quotation. This can be done only if RPPA provide non objection to use request for quotation after receiving a reasonable justification from UTH-K and MPPD accompanied by a confirmation from the Ministry of Health specifying that such procurement is urgent and is in public interest.

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Furthermore, another problem occurs when many items in the tender are not offered by any bidder. Items not offered have to be re-advertised and this take additional time as they go through similar processes. See some examples in the table below:

Table no 8: Comparison of items requested by UTH-K and those availed by MPPD

S/N	Reference of tender	Items advertised	Items offered	Items not offered	Percentage of items not offered
1	061/P/IOCB/2014-2015/CHUK/MPPD	276	94	182	66%
2	060/IOCB/2014-2015/MPPD/CHUK/MPPD	170	98	72	42%

Our country does not have pharmaceutical industries, the market depends on external suppliers who sometimes are not very familiar with national procurement procedures and refuse to comply yet their products are needed.

Some suppliers have been refusing to provide performance security as they consider this to be too much transactions. In addition to this, they request an advance payment without providing a bank guarantee or require advance 100% advance payment for the same reasons as above while the law authorizes only 20%.The example is the case where MPPD was requesting from RPPA the approval for upfront payment to 43 suppliers in November 2015¹³. The list of 43 suppliers is attached in **appendix 6**.

All the above challenges contributed to delaying the availability of drugs and medical supplies and contribute to stock out of drugs and medical supplies in hospitals.

Recommendation

MPPD in consultation with Ministry of Health should urgently request special procurement guidelines for drugs and medical supplies to solve the problem of stock out of drugs and medical supplies in hospitals.

¹³ Letter no 3530/RBC/DDG/MPPD/PU/IN/15 dated 06 November 2015

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5.2.MANAGEMENT OF PROCURED DRUGS AND MEDICAL SUPPLIES

5.2.1. Recurring stock out of drugs and medical supplies affecting service delivery

(A) General stock out

The review of stock management system “Sage 100 Gestion commerciale¹⁴” for the period 1/07/2013 to 17/11/2015 revealed **1,191 cases** of stock out for drugs and medical supplies in the hospital, for a period ranging from **3 to 734 days** (509 cases of drugs, 387 cases of medical consumables and 295 cases of laboratory reagents). In the above review, there are cases where one drug or medical supply ran out of stock several times.

In addition to that, there are 397 items (drugs, medical consumables and laboratory reagents) which not yet replenished up to 17th November 2015 (the time of audit). See table below and **appendix 7** for details

Table no 9: Summary of stock outs experienced by UTH-K

Type	Stock out up at the time of audit (17/11/ 2015)	Stock out ranging from					
		3 to 30 days	31 to 90 days	91 to 180 days	181 to 270 days	271 to 365 days	366 days and above
Drugs	157	113	106	75	25	12	21
Medical consumables	120	118	65	40	27	9	8
Laboratory reagents	120	57	30	31	13	18	26
TOTAL	397	288	201	146	65	39	55

Source: UTH-K Stock movement from Sage 100 commerciale

Running out of stock for drugs and medical supplies limited the hospital from providing expected quality healthcare and affect people’s life.

Recommendation

- UTH-K should establish appropriate stock management system in order to prevent stock out.
- UTH-K management should regularly monitor the Pharmacy in order to take appropriate measure when there are indicators of stock out.

¹⁴ The software used by UTH-K to manage drugs and medical supplies

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(B) Analysis of case of stock out for anesthesia and its impact to quality healthcare services

To substantiate the above case of general stock out, I analyzed the case of stock out of anesthesia for the period 01st July 2013 to 17 November 2015 and noted that the hospital experienced 24 cases of stock out for 11 types of anesthesia¹⁵. The period of stock out ranged from **9 to 366 days and above**. For more details see **appendix 8a**.

Table no 10: Cases of stock out of anesthesia at UTH-K

Type	Stock out up at the time of audit (17/11/ 2015)	Stock out ranging from					
		9 to 30 days	31 to 90 days	91 to 180 days	181 to 270 days	271 to 365 days	366 days and above
Anesthesia	5	5	5	4	3	0	2

Source: UTH-K Stock movement from Sage 100 commerciale

Based on statistical data available at UTH-K; 8,800 people have been anaesthetized from July 2013 to June 2015. This means that each day 12 people are treated with anesthesia. Details about monthly anesthesia data, see **appendix 8b**.

Due to stock out ranging between 9 and 366 days and above, this impacted negatively the healthcare services provision.

Recommendation

UTH-K should establish measures of proper stock management in order to avoid frequent stock out

Management comment

We do agree that there are various stock out at UTH-K. However, we submit our annual need of health commodities at the beginning of the financial year and we are not supplied as expected which can led to stock out of some items. Various stock out have been caused by borrowing few quantities from other health facilities and use them within a short period of time. There are also cases where suppliers supply few items which are consumed within a short period leading to further stock out.

It happens to request products in a financial year and we reach the following financial year without replenishment. At UTH-K, there are items requested since the financial year 2012-2013 and 2013-2014 which has not been replenished until now.

¹⁵ Types of anesthesia that were out of stock: bupivacaine hydrochloride, bupivacaine flaon, bupivacaine hyperbare flaon, lidocaïne, lidocaïne 2% +Aadrenaline, lidocaine inj 2% ampoule and lidocaine spray.

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5.2.2. Lack of stock re-order level of drugs and medical supplies

The stock re-order level is the level at which a new order for a specific item of stock is placed in order to make a replenishment. It helps the user to continue operating without any interruption or stock out.

The analysis made by comparing the request made by UTH-K to MPPD on 04th August 2014 and the status of the stock at the same date indicated that UTH-K re-ordered drugs and medical supplies when **20 %** and **21% of requested drugs and consumables** respectively were out of stock. Refer to table below and **appendix 5** for details:

Table no 11: Drugs and medical supplies requested while the stock was out.

Items	Quantity requested (A)	Items which the stock was out (B)	Percentage $C=(B*100)/A$
Drugs	377	74	20%
Consumables	357	75	21%
Laboratory Reagents	363	51	14%

Source: UTH-K request for the year 2014/2015 and UTH-K Stock movement from Sage 100 commerciale

For some other items, UTH-K re-ordered drugs and medical supplies when the stock available was small, ranging between 1 and 100 items and could not serve for a long time (6 months) while awaiting the new procurement to get completed. See table below and **appendix 4** for more details.

Table no 12: Drugs and medical supplies requested while the stock was small.

Items	Quantity requested (A)	Items which the stock was small, ranging from 1 to 100 (B)	Percentage $C=(B*100)/A$
Drugs	377	12	3.2 %
Consumables	357	23	6.4 %
Laboratory Reagents	363	11	3 %

Source: UTH-K request for the year 2014/2015 and UTH-K Stock movement from Sage 100 commerciale

In addition to this, the replenishment took a long time ranging from 14 to 458 days and at time of audit (November 2015) 60 items were not yet replenished. See table below and **appendix 5** for details.

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Table no 13: Time taken to replenish the stock

Items	Replenished for a period ranging from:				
	10 days to 30 days	31 days to 180 days	181 days to 365 days	366 days and above	Not yet replenished at the time of audit (November 2015)
Drugs	7	25	21	1	20
Consumables	5	25	12	2	31
Reagents	5	23	14	0	9
TOTAL	17	73	47	3	60

Source: UTH-K request for the year 2014/2015 and UTH-K Stock movement from Sage 100 commerciale

Recommendation

The management of UTH-K should establish accurate stock management system including the estimate of stock re-order level in order to prevent the hospital from running out of stock.

Management comment

We have a stock management system which specifies a stock re-order level but due to a number of challenges, it was impossible to maintain an optimal stock re-order level. Those are mainly the following

- 1) MPPD's inability to deliver all requested items as expected in a reasonable time*
- 2) Inappropriate procurement law addressing specifically health commodity*
- 3) Failure to get suppliers for many items either on the side of MPPD or on CHUK side.*
- 4) Delays in deliveries by suppliers*

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5.3.FINANCIAL VIABILITY

5.3.1. Tariff in use

On 3rd April 2012, the Ministry of Health published the ministerial instructions no 20/58 establishing tariff of health care services in public and semi-public health facilities. The tariff is divided into 4 categories namely A (for mutual health insurance scheme representing 80% of UTH-K clients), B (for RSSB, MMI, Mutual health schemes for universities and Higher Learning Institutions), C (for private insurance, trading companies and others) and D (for patients without insurance). When determining the tariff to be used from 2012, the ministry of health added 20% from the tariff which was in use in 2009¹⁶.

UTH-K statistics for the last 3 years shows that 80% of its clients use the mutual health insurance scheme, 14% use other insurances namely MMI, Radiant , RSSB, Mutual health schemes for University of Rwanda while 6% are private and do not have any insurance cover. For more information about the patients statistics, refer to the table below:

Table no 14: Data related to patients statistics for the last 3 years

No	Group of customers (Beneficiaries)	2012/2013	2013/2014	2014/2015	Total	Average for the last 3 years
1	Mutual Health Insurance	153,810	142,623	150,345	446,778	80%
2	Others insurances	18,251	35,021	26,677	79,949	14%
3	Private	6,364	13,049	11,507	30,920	6%
	Total	178,425	190,693	188,529	557,647	100%

Source: UTH-K patients from statistics section for the last 3 years

In analysing the above data relating to tariff classification into 4 categories and statistical data about categorization of UTH-K clients, the following issues have been noted:

5.3.1.1.Tariff in use not covering cost of medical services

The review of the above tariff revealed that the costs incurred by UTH-K for some medical services are not fully covered by what patients pay.

¹⁶ Ministerial instructions no 20/58 of 03 April 2012 determining the tariff of health care services for public and semi-public health facilities.

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(A) Analysis of cost incurred on medical services versus tariff in use

On sample basis, 20 medical services from the tariff in use in health sector were analyzed and noted **that the cost of medical service per the tariff does not cover the actual costs of medical services incurred by the hospital (UTH-K inputs).** In applying the tariff in use, the payment made by beneficiaries of mutual health scheme (tariff A) covers only 37%, 67% for tariff B and 80% for tariff C. See table below and **appendix 9** for more details.

Table no 15: The extent of coverage of costs incurred by UTH-K in attending to patients

Tariff classification	Tariff A for Mutual Health Insurance Scheme	Tariff B for RSSB, MMI, Mutual Health Insurance Scheme for UR	Tariff C for Private Insurance, Trading company and others	Tariff D for people Without insurance (D)
Payment made	37% ¹⁷	67% ¹⁸	80% ¹⁹	224% ²⁰
Uncovered costs or lost revenue	63%	33%	20%	-
Percentage of patients	80%	14%		6%

Following the categorization of UTH-K clients, the table above shows that what patients pay do not covers costs incurred by UTH-K except for patients who do not use any insurance cover that are **6%** of the total customers. The uncovered costs are the loss of revenues for UTH-K.

The fact that all costs incurred are not fully covered by the tariff established by the Ministry of Health contributed to weakening the hospital financially and may lead the hospital to not be able to replenish the stock of drugs and medical supplies as it falls necessary. This issue also, limited UTH-K from effectively achieving its main objective of providing the quality healthcare to its patients.

(B) Analysis of costs incurred on normal delivery and Cesarian Section versus tariff in use

As stipulated in the finding above, UTH-K patients pay different amount for the same medical services because of their classification in 4 categories A, B, C and D. By analyzing the tariff in relation to medical services provided to patients and classification of UTH-K customers composed of 80% for category A, 14% for category B and C and 6% for category D, I noted the charges to patients do not cover all costs of medical services provided to them. Considering that the 2 operations take on average 1 hour and requires one medical Doctor and 2 midwives, costs of

¹⁷ The payment made by the patient of mutual health to cover the cost of medical service provided to her/him

¹⁸ The payment made by the patient in category B of the tariff to cover the cost of medical service provided to her/him

¹⁹ The payment made by the patient in category C of the tariff to cover the cost of medical service provided to her/him

²⁰ The payment made by the patient in category D of the tariff to cover the cost of medical service provided to her/him

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medical services are not covered by the payment made. Detailed list of all materials and costs of medical services is attached in **appendix 10**.

Here is an example in the table of detailed analysis conducted for women who normally delivers and those who delivers by Cesarian section by considering all materials used and their costs.

Table 16: Costs of medical services and payment made by patients

Category of patients	Costs of all items used	Category A	Category B	Category C	Category D
Normal delivery	30,216	9,000	18,000	22,500	27,000
Delivery from Cesarian section	34,127.70	19,800	39,600	49,500	59,400
Category of patients		80%	14%		6%

UTH-K does not recover all costs of medical services provided to its patients especially from 80% composed of beneficiaries of mutual health insurance scheme.

Furthermore, considering the statistical data about deliveries at UTH-K in the table below, and the categorization of tariff, UTH-K has a deficit in recovering costs incurred for medical services.

Table 17: Statistics of delivery at UTH-K for the last 3 years

Details	2012/2013	2013/2014	2014/2015	Total
Normal delivery	1,065	1,128	1,036	3,229
Delivery by Cesarian section	1,019	793	719	2,531
Total	2,084	1,921	1,755	5,760

Source: UTH-K data on delivery from statistics section for the last 3 years

Recommendations

- The Ministry of Health should urgently review the tariff of medical services and should take into consideration the actual costs.
- The Ministry of Health should set the specific time to review tariffs and this should be followed to avoid tariffs to be outdated.

5.3.1.2. Tariff updated inaccurately

Updating the tariff to be used in health sector is the responsibility of Ministry of Health. According to information gathered from CHUK management, the tariff is to be updated every two years by Ministry of Health in collaboration with stakeholders in healthcare service delivery such as medical insurance companies, public and private hospitals as well as clinics.

The review of tariff in use in UTH-K revealed that the Ministry of Health took the tariff for 2009 and arbitrarily added a markup of 20%.

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We have no evidence that elements of costs such as cost of medical services inputs as well as the inflation have been considered in setting the tariff which is use since 2012 to date.

Updating the tariff without considering factors that contribute to the increase of prices such as cost of medical services inputs and inflation led to the inaccurate tariff for medical services and limited healthcare service providers including UTH-K from collecting actual amount of money from its clients.

Had the tariff been accurately updated, it would have enabled healthcare service providers to increase their revenue and use it for replenishing drugs and medical supplies which we found are under supplied.

Recommendation

- The Ministry of Health should urgently review the tariff of medical services and should take into consideration the actual costs.
- The Ministry of Health should set the specific time to review tariffs and this should be followed to avoid tariffs to be outdated.

5.3.2. Weaknesses in contract management

In order to offer medical services to employees or beneficiaries/customers of different institutions, contracts have been signed with UTH-K. Up to the time of the audit (30 November 2015), 37 institutions signed the above contracts such as Mutual Health Insurance Scheme, Radiant Insurance Company, SORAS , CORAR, BRITAM, Rwanda correctional services, MMI, RSSB, SFB, KIST, etc.

The article 8 states that UTH-K agreed to deliver detailed medical bills to the client in 15 days following the month in which medical services were provided.

The client (above institutions) has to settle the bill within 30 days after the reception of the bill. The analysis of UTH-K debtors shows that from 2012/2013 up to 2014/2015 receivables were increasing and settlement of invoices were not executed as stipulated in the contracts. The same contracts stipulates that all late payments will bring about payment of interests equivalent to 1% to 5% of the billed amount and arrears every month, the violation of payment obligations for 2 consecutive months will lead to termination of contracts without any prior notice.

Irrespective of the above, the review of debtors revealed that UTH-K has a big cumulative balance of unpaid debts for individual debtors at the end of each year for the last 3 years. Debtors balances were Frw 309,329,206; Frw 961,254,603 and Frw 1,318,731,112 for 2012/2013, 2013/2014 and 2014/2015 respectively. Among the debtors highlighted above, the review indicated that even if

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debtors did not pay on time UTH-K did not apply any penalty to the unpaid invoices. See details about annual debts balances in **appendix 11**.

The delays in payment affect the hospital capacity of replenishing stock of drugs and medical supplies and affects the service delivery.

Recommendation

- UTH-K should strengthen the recovery process in order to be able to finance the procurement of drugs and medical supplies when need be.
- UTH-K should strengthen the contract management by applying penalties and other measures specified in the contracts when an institution fails to comply with the contract terms regarding payment modalities.

Management comment

UTH-K delivers medical bill to its client before 15 of the following month as stipulated in article 8 of the contract. Some of our clients respect payment period but the problem comes to some Government institutions such as prisons, UNR insurance scheme, FARG and mutual health insurance scheme. As a healthcare provider, we cannot stop from receiving and caring emergency cases.

However, CHUK Management is committed to strengthen its contract management by applying all possible ways of recovery before terminating the contract. Where it will be impossible, we will seek legal advice and terminate the contract if necessary.

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6. CONCLUSION

UTH-K was established with the main mission of providing healthcare at tertiary level. To deliver on this mission, drugs and medical supplies are one of major inputs. The responsibility of procuring these drugs and medical supplies for all medical facilities including UTH-K is the responsibility of MPPD.

There is a chronic stock out of drugs and medical supplies in UTH-K and this is affecting the quality of healthcare delivered to its clients. This problem emanate from a number of weaknesses including:

(i) Procurement of drugs and medical supplies:

There are delays in submitting requests to MPPD which affect the timely availability of drugs and medical supplies in UTH-K. While UTH-K is aware that a minimum of 6 months is necessary for MPPD to comply with procurement procedures, it has been submitting request with 5.7, 6.6 and 7.2 months of delay for the last 3 years, 2012/2013, 2013/2014 and 2014/2015 respectively. The requests were submitted while there was no stock to serve while awaiting procurement procedures to take place.

In addition to this delay in submitting requests, MPPD delays also to complete procurement procedures. The delays have been ranging between 8 and 132 days in addition to the 6 months required for procurement procedures.

The situation is worsened by the fact that requested drugs and medical supplies to MPPD are never availed entirely. For the last 3 years, MPPD availed only 44%, 65% and 33% of the requested drugs and medical supplies respectively for the year 2012/2013, 2013/2014 and 2014/2015.

This means that 67% of drugs and medical supplies needed in UTH-K for the year 2014-2015 were not availed and clients had to purchase in private pharmacies. It is a very big challenge for clients using mutual health insurance because they are not reimbursed money paid when purchasing drugs in private pharmacies.

This problem is not only affecting the quality of healthcare but also the policy of Mutual Health Insurance. People may be reluctant to adhere to Mutual Health Insurance scheme because in addition to membership fees to be paid they have to incur cost of drugs if treated in UTH-K and other hospitals which might have the same problem as UTH-K.

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After receiving few items compared to the requested quantities, UTH-K starts its procurement process and it takes also long time, normal procurement processes and a delay ranging between 16 to 183 days.

In addition to weaknesses in both institutions (UTH-K and MPPD) in terms of procuring drugs and medical supplies with delays, there is also the procurement law which is generic and not appropriate for health commodities. Some bidders do not want to comply with requirements of the law and request exceptions which require special authorization from RPPA and it takes also time.

(ii) Management of procured drugs and medical supplies:

The management of procured drugs and medical supplies is not properly done, it contributes to stock out in the hospital and impacts negatively healthcare services provision. The review of stock management system, revealed **1,191 cases** of stock out for drugs and medical supplies in the hospital, for a period ranging from **3 to 734 days**. As at 17th November 2015 (the time of audit), **397 items** were not yet replenished. In addition to this, 24 cases of stock out for 11 types of anesthesia were out of stock for a period ranging from **9 to 366 days and above**.

There is no stock re-order level. In 2014, UTH-K re-ordered drugs and medical supplies when 21% of items requested were out of stock and the replenishment took a long time ranging from **14 to 458 days** and above.

(iii) Financial viability:

UTH-K is operating at loss, it is using inaccurate tariff which was last updated in 2012. In applying the tariff, what patients pay does not cover costs incurred by UTH-K. For instance, UTH-K lose 63% of its revenues when serving clients affiliated to mutual health insurance schemes and these represent 80% of its total customers.

The fact that all costs incurred are not fully covered by the tariff established by the Ministry of Health contributed to not being able to replenish the stock of drugs and medical supplies by UTH-K when it falls necessary.

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7. RECOMMENDATIONS

In view of the above highlighted shortcomings in the management of drugs and medical supplies which caused chronic stock out of drugs and medical supplies in UTH-K, it is recommended that;

(i) On procurement of drugs and medical supplies

- UTH-K should prepare their request of drugs and medical supplies and submit them to MPPD within time, taking into consideration the time of procurement and the security stock that will be used while awaiting MPPD to deliver
- The Ministry of Health should intervene urgently to solve the problem of MPPD not purchasing all drugs and medical supplies to health facilities.
- MPPD should put in place a system that enable them to purchase all drugs and medical supplies for health facilities.
- MPPD should reduce the time taken while procuring drugs and medical supplies and make sure they are procured within 6 months maximum.
- UTH-K should make regular follow up and ensure that the requested drugs and medical supplies will be procured and delivered within reasonable time.
- UTH-K should reduce the time taken in evaluating tenders and ensure that drugs and medical supplies are delivered within the time agreed in the contract.
- MPPD in consultation with Ministry of Health should urgently request special procurement guidelines for drugs and medical supplies to solve the problem of stock out of drugs and medical

(ii) Management of procured drugs and medical supplies

- UTH-K should establish appropriate stock management system in order to prevent stock out.
- UTH-K management should regularly monitor the Pharmacy in order to take appropriate measure when there are indicators of stock out.
- The management of UTH-K should establish accurate stock management system including the estimate of stock re-order level in order to prevent the hospital from running out of stock.

(iii) Financial viability

- The Ministry of Health should urgently review the tariff of medical services and should take into consideration the actual costs.
- The Ministry of Health should set the specific time to review tariffs and this should be followed to avoid tariffs to be outdated.

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- UTH-K should strengthen the contract management by applying penalties and other measures specified in the contracts when an institution fails to comply with the contract terms regarding payment modalities.

APPENDICES

PROCUREMENT AND MANAGEMENT OF DRUGS AND MEDICAL SUPPLIES AND ITS IMPACT ON HEALTH CARE AT UNIVERSITY TEACHING HOSPITAL-KIGALI (UTH-K/ CHUK)

Appendix 1: Key staff and stakeholders interviewed

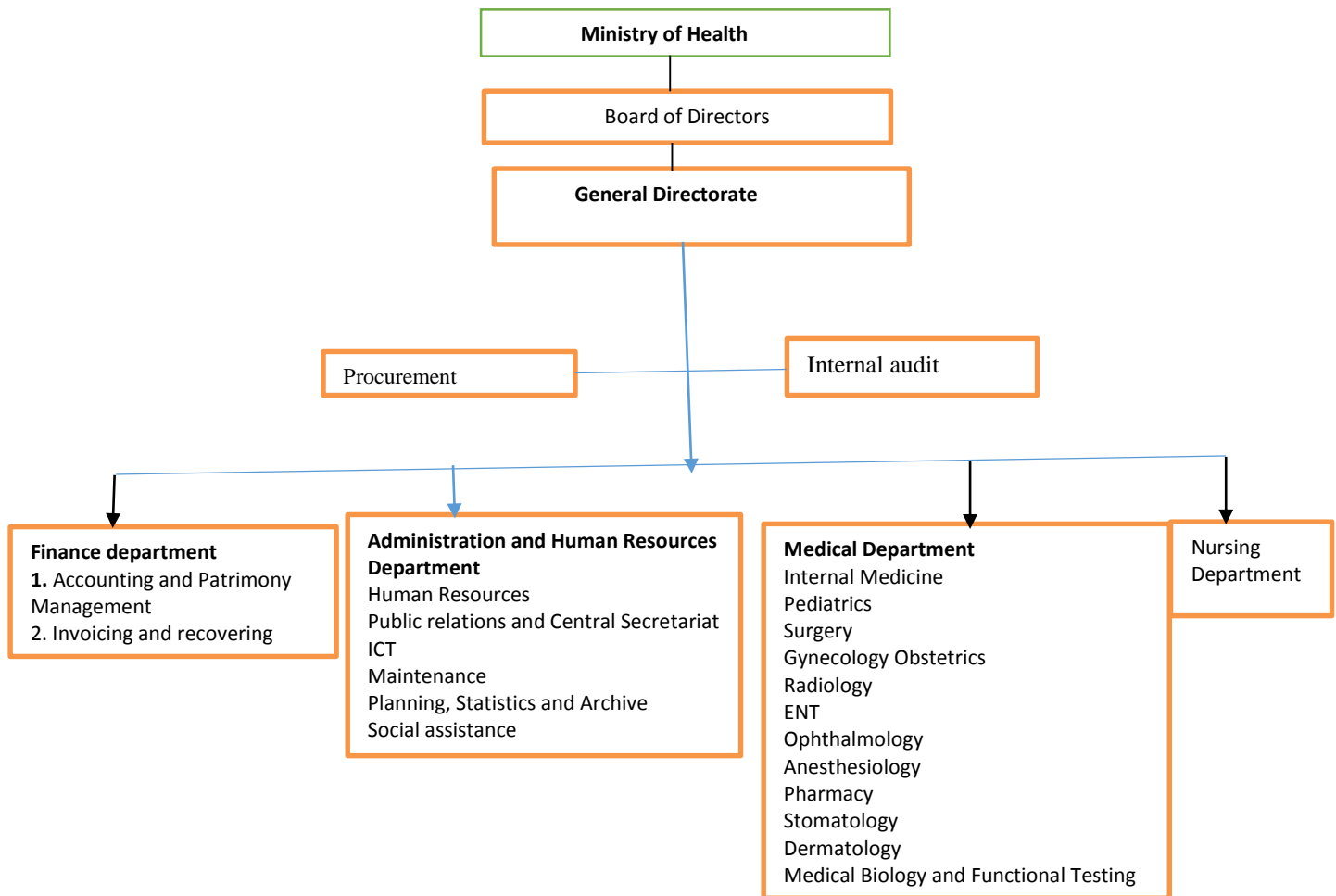
No	Staff	Position
1	Dr HATEGEKIMANA Theobald	Director General
2	Celsa GAJU MUZAYIRE	Head of MPPD
3	KAYITESI Anne Marie	Procurement Manager
4	UWASE Damaris	Head of Pharmacy
5	MBABAZI Betty	Director of Finance
6	MAKAMANZI Hosiane	Procurement Officer at MPPD in charge of UTH-K Procurement

Appendix 2: List of documents reviewed

No	Name of the documents
1	Strategic plan (2013/2017)
2	UTH-K annual activity report July 2013-June-2014
3	UTH-K action plan 2012/2013,2013-2014,2014/2015 and 2015/2016
4	Procurement plans for the year 2012/2013, 2013/2014, 2014/2015
5	Procurement monthly progress reports 2012/2013,2013/2014,2014/2015
6	Tender documents for both UTH-K and MPPD
7	Annual financial statements 2012/2013, 2013/2014 and 2014/2015
8	Annual activity report for the year 2013/2014
9	Internal rules and regulations
10	Tariff of health care services
11	Correspondence between National Pooling Risk and UTH-K
12	Breakdown of debtors and creditors
13	List of essential drugs
14	Inventory reports for 2013-2014 and 2014/2015
15	Procedures of management of the Pharmaceutical products in UTH-K
16	Agreements between UTH-K and insurance companies (37 contracts/agreements)

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Appendix 3: UTH-K organization structure



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Appendix 4a :Where UTH-K requested drugs on 4 August 2014 while the stock was between 1 and 100 items

No	Item description	Date of request	Quantity in stock On 04 August 2014
1	Bupivicaïne flacon 20ml 0,50%	4-Aug-14	2
2	Pethidine ampoule 1ml 50 mg/ml	4-Aug-14	2
3	Morphine ampoule 1ml 10 mg/ml	4-Aug-14	10
4	Paracetamol sirop 60ml 125 mg/5 ml	4-Aug-14	10
5	Insuline mixte 30/70 100 UI/ml 10 ml	4-Aug-14	36
6	Lopéramide comprimé 2 mg	4-Aug-14	48
7	Gastrographine 370 mg d'iode/ml flacon 100 ml	4-Aug-14	73
8	Butylscopolamine comprimé 10 mg	4-Aug-14	75
9	Naloxone 0.4mg amp de 1ml	4-Aug-14	75
10	Miconazole Ovule 400mg(Gyno-Daktarin)	4-Aug-14	87
11	Miconazole Nitrate gel orale gel 40g (Daktarin)	4-Aug-14	95
12	Ceftriaxone ampoule 1g	4-Aug-14	100

Appendix 4b: Where UTH-K requested medical consumables on 4 August 2014 while the stock was between 1 and 100 items

No	Item description	Date of request	Stock on 04 August 2014
1	Cathéter veineux de voie centrale G 22 avec introducteur multilumen	4-Aug-14	1
2	Cathéter veineux de voie centrale G18 avec introducteur multilumen	4-Aug-14	1
3	Drain de kehr 6mm	4-Aug-14	2
4	Garrot	4-Aug-14	2
5	Papier pour monitoring foetal	4-Aug-14	2
6	Sonde vésicale à 3 voies non armée dufour ch 22	4-Aug-14	2
7	Sonde vésicale à 3 voies ch 18	4-Aug-14	2
8	Mandrins pour intubation 1.5mm	4-Aug-14	5
9	Seringues de Janet 60ml	4-Aug-14	5
10	Sondes naso-gastriques ch 18	4-Aug-14	5
11	Seringue de 200ml pour CT scan	4-Aug-14	8
12	Canule trachéale type Guedel pour bébé n°00	4-Aug-14	10
13	Tensiomètres pédiatriques anaéroïdes portables	4-Aug-14	11
14	Bandes de gaz 15 cmx4.5m	4-Aug-14	12
15	Robinet à 3 voies	4-Aug-14	17
16	Sondes Urétrales ch 6	4-Aug-14	17
17	Canule trachéal type Guedel pour adulte n°5	4-Aug-14	18
18	Sonde de Gavage ch 8	4-Aug-14	24
19	Aiguilles pour Ponction Lombaire 25G adulte	4-Aug-14	70
20	Hydrocephalus shunt system medium pressure	4-Aug-14	71

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No	Item description	Date of request	Stock on 04 August 2014
21	Jersey 25cm de longueur 25m	4-Aug-14	75
22	Canules à O2 pour adulte (lunette)	4-Aug-14	80
23	Masque de protection en papier chirurgical	4-Aug-14	100

Appendix 4c: Where UTH-K requested laboratory reagents on 4 August 2014 while the stock was between 1 and 100 items

No	Item description	Stock level on 4th August 2014
1	Mueller Hinton 2 Agar	0.50
2	BILD-T DPD Gen.2,250Tests,cobas c, Int.	1.00
3	CKL , 200 Tests , cobas c , Integra	1.00
4	Stromatolyser WH SRP-200 A (Sysmex)	1.50
5	Cell clean CL50 (pour Sysmex)	4.0
6	Réactif de groupage Anti-A (Anti-A monoclonal)	6.0
7	Réactif de groupage Ant-B(Anti-B monoclonal)	6.0
8	Réactif de groupage Anti-D IgM+IgG (Anti-D, monoclonal IgM+IgG)	6.0
9	Réactif de groupage Anti-AB (Anti-AB monoclonal)	7.0
10	Chlorure de sodium (NaCl)	7.0
11	Tigettes pour Glucometer SD code free	50.0

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Appendix 5a: Stock out period for drugs requested on 04 August 2014

No	Item description	Date of request	Quantity in stock On 04 August 2014	Date of replenishment	Stock out in days
1	Insuline lente flacon 10 ml 100 UI/ml HM	4-Aug-14	0	18-Aug-14	14
2	Insuline rapide flacon 10 ml 100 UI/ml HM	4-Aug-14	0	18-Aug-14	14
3	Metronidazole comprimé 250mg	4-Aug-14	0	18-Aug-14	14
4	Metoclopramide ampoule 10 mg/2ml	4-Aug-14	0	18-Aug-14	14
5	Tramadol hydrochloride Capsules 50 mg	4-Aug-14	0	18-Aug-14	14
6	Lidocaïne 2% +Adrenaline; carp dent amp 1.8ml 2%	4-Aug-14	0	19-Aug-14	15
7	Calcium Gluconate ampoule 10ml 10%	4-Aug-14	0	26-Aug-14	22
8	Ciprofloxacin flacon 100ml 2mg/ml	4-Aug-14	0	4-Sep-14	31
9	Gelatinés fluides flacon 500ml	4-Aug-14	0	4-Sep-14	31
10	Gentamycine ampoule de 2ml 80 mg/amp	4-Aug-14	0	4-Sep-14	31
11	Lidocaïne spray 10% flacon 50ml	4-Aug-14	0	4-Sep-14	31
12	Paidoterin sirop flacon de 100ml	4-Aug-14	0	4-Sep-14	31
13	Paracetamol suppositoires 125 mg	4-Aug-14	0	4-Sep-14	31
14	Sulfadiazine crème 250 gr	4-Aug-14	0	4-Sep-14	31
15	Héparine inj 5000 UI/ml flacon 5 ml	4-Aug-14	0	4-Sep-14	31
16	Ibuprofène comprimé 200 mg	4-Aug-14	0	15-Sep-14	42
17	Metronidazole flacon IV, IM 500mg	4-Aug-14	0	15-Sep-14	42
18	Tétracycline opht. Pommade 5mg	4-Aug-14	0	19-Sep-14	46
19	Hydralazine injectable 20mg/ml amp 1ml	4-Aug-14	0	22-Sep-14	49
20	Chlorure de Potassium 10% ampoule 10 ml	4-Aug-14	0	24-Sep-14	51
21	Ephédrine ampoule 50 mg/ml	4-Aug-14	0	24-Sep-14	51
22	Tadalafil comp 10mg	4-Aug-14	0	29-Sep-14	56
23	Acyclovir comprimé 200mg	4-Aug-14	0	9-Oct-14	66
24	Dexaméthasone 4mg/ml 2ml	4-Aug-14	0	9-Oct-14	66
25	Doxycycline comprimé 100 mg	4-Aug-14	0	15-Oct-14	72
26	Vancomycine vial 500 mg	4-Aug-14	0	16-Oct-14	73
27	Phénytoïne injectable 250mg/5mL	4-Aug-14	0	16-Oct-14	73
28	Bupivacaïne hyperbare flacon 4ml 0,50%	4-Aug-14	0	30-Oct-14	87
29	Ampicilline flacon 1g	4-Aug-14	0	10-Nov-14	98
30	Morphine 10 mg/co	4-Aug-14	0	14-Nov-14	102
31	Charbon activé comprimé 125 mg	4-Aug-14	0	22-Dec-14	140
32	Lidocaïne 2% flacon 20ml	4-Aug-14	0	20-Jan-15	169
33	Amlodipine besilate cés 5mg	4-Aug-14	0	6-Feb-15	186
34	Diclofenac suppositoires 100 mg	4-Aug-14	0	6-Feb-15	186
35	Lactulose solution flacon de 200ml	4-Aug-14	0	11-Feb-15	191
36	Acyclovir comprimé 800mg	4-Aug-14	0	18-Feb-15	198

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No	Item description	Date of request	Quantity in stock On 04 August 2014	Date of replenishment	Stock out in days
37	Vaccins Anti-Rabique ampoule 2,5ui	4-Aug-14	0	18-Feb-15	198
38	Benzylpenicilline flacon 5000UI	4-Aug-14	0	12-Mar-15	220
39	Glucosé hypertonique 50% 20ML	4-Aug-14	0	12-Mar-15	220
40	Ionomère de verre FUJI VII	4-Aug-14	0	13-Mar-15	221
41	Maxidrol collyre	4-Aug-14	0	20-Mar-15	228
42	Microlax 625 mg/ml pour adulte	4-Aug-14	0	20-Mar-15	228
43	Microlax 625 mg/ml pour bébé	4-Aug-14	0	20-Mar-15	228
44	Paraformaldehyde Liquide	4-Aug-14	0	6-Apr-15	245
45	Beclométhasone dipropionate aérosol 250µg/bouffée	4-Aug-14	0	24-Apr-15	263
46	Phenobarbital 200mg/ml ampoule 1 ml	4-Aug-14	0	24-Apr-15	263
47	Revelateur pour machine automatique liquide pour 20 L	4-Aug-14	0	28-Apr-15	267
48	Salbutamol nébulisation, solu 2.5mg/2.5ml	4-Aug-14	0	28-Apr-15	267
49	Acetylsalicylate de lysine ampoule 900mg	4-Aug-14	0	28-Apr-15	267
50	Zinc comprimé	4-Aug-14	0	10-Jun-15	310
51	Ceftazidime vial de 1g	4-Aug-14	0	12-Jun-15	312
52	Glibenclamide comprimé 5 mg	4-Aug-14	0	12-Jun-15	312
53	Digoxine comprimé 0,25 mg	4-Aug-14	0	26-Jun-15	326
54	Gliclazide comprimé 30mg comprimé retard	4-Aug-14	0	9-Sep-15	401
55	Acenocoumarol comprime 1mg	4-Aug-14	0		Not yet replenished
56	Amiodarone inj amp 3 ml 50mg/ml	4-Aug-14	0		Not yet replenished
57	Amiodarone ces 200 mg	4-Aug-14	0		Not yet replenished
58	Chaux sodée poudre 5kg	4-Aug-14	0		Not yet replenished
59	Clonidine ampoule 1ml 150 mcg/ml	4-Aug-14	0		Not yet replenished
60	Clotrimazole Crème 20 g	4-Aug-14	0		Not yet replenished
61	Doxycycline comprimé 200 mg	4-Aug-14	0		Not yet replenished
62	Furosemide ampoule 2ml 20 mg/ml	4-Aug-14	0		Not yet replenished
63	K-Y gel lubrifiant pommade 85grs	4-Aug-14	0		Not yet replenished
64	Lidocaïne 2% gel visqueuse 30 ml	4-Aug-14	0		Not yet replenished
65	Mannitol 20% flacon 250 ml	4-Aug-14	0		Not yet replenished
66	Paracetamol suppositoire 250 mg	4-Aug-14	0		Not yet replenished
67	Prednisolone comp 10mg	4-Aug-14	0		Not yet replenished
68	Pulpéryl liquide 13ml	4-Aug-14	0		Not yet replenished
69	Roclès 13ml	4-Aug-14	0		Not yet replenished
70	Thiamine ampoule 2ml 50mg/ml	4-Aug-14	0		Not yet replenished
71	Thiamine comprimé 100mg	4-Aug-14	0		Not yet replenished
72	Phenobarbital comprimé 50 mg	4-Aug-14	0		Not yet replenished
73	Chlorydraté d'acide aminé, chlorure de dodecylmethylammonium-surfactant	4-Aug-14	0		Not yet replenished

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No	Item description	Date of request	Quantity in stock On 04 August 2014	Date of replenishment	Stock out in days
74	Ciment de scellement définitif 45 gr poudre 14 ml liquid	4-Aug-14	0		Not yet replenished

Appendix 5b: Stock out period for medical consumables requested on 04 August 2014

No	Item description	Date of request	Stock on 04 August 2014	Replenishment date	Stock out period in days
1	Catheters: n°24G IV	4-Aug-14	0	18-Aug-14	14
2	Sonde d'aspiration trachéale oro nasale ch14	4-Aug-14	0	18-Aug-14	14
3	Sonde de Foley à 2 voies ch 22	4-Aug-14	0	18-Aug-14	14
4	Sonde d'aspiration trachéale oro nasale ch 8	4-Aug-14	0	19-Aug-14	15
5	Sondes d'aspiration trachéale oro-nasale ch 6	4-Aug-14	0	19-Aug-14	15
6	Drain thoracique avec mandrin ch 18	4-Aug-14	0	4-Sep-14	31
7	Drain thoracique avec mandrin ch 20	4-Aug-14	0	4-Sep-14	31
8	Bandes plâtrée 15 cm x 2,7-3 m	4-Aug-14	0	11-Sep-14	38
9	Poches de recueil d'urine à distance pr adulte avec valve de vidange	4-Aug-14	0	15-Sep-14	42
10	Implant 19 OD de chambre postérieure	4-Aug-14	0	1-Oct-14	58
11	Implant 20 D de chambre postérieure	4-Aug-14	0	1-Oct-14	58
12	Implant 21 OD de chambre postérieure	4-Aug-14	0	1-Oct-14	58
13	Implant 21,5 chambre postérieure	4-Aug-14	0	1-Oct-14	58
14	Implant 22 OD de chambre postérieure	4-Aug-14	0	1-Oct-14	58
15	Implant de chambre postérieure N° 23	4-Aug-14	0	1-Oct-14	58
16	Implant pliable 19.0	4-Aug-14	0	1-Oct-14	58
17	Implant pliable 20.0	4-Aug-14	0	1-Oct-14	58
18	Implant pliable 21.0	4-Aug-14	0	1-Oct-14	58
19	Implant pliable 22.0	4-Aug-14	0	1-Oct-14	58
20	Implant pliable 24.0	4-Aug-14	0	1-Oct-14	58
21	Surgical patties 1/2 pouce x 2 pouce	4-Aug-14	0	31-Oct-14	88
22	Ouate 250g	4-Aug-14	0	5-Nov-14	93
23	Masque pour nébulisation pédiatrique	4-Aug-14	0	14-Nov-14	102
24	Sondes naso-gastriques ch 16	4-Aug-14	0	26-Nov-14	114
25	Bande velpeau 15cmx4m	4-Aug-14	0	12-Dec-14	130
26	Hydrocephalus shunt system high pressure	4-Aug-14	0	29-Dec-14	147
27	Sonde de Foley à 2 voies ch 24	4-Aug-14	0	7-Jan-15	156
28	Bandes plâtrée 10 cm X 2,7- 3 m	4-Aug-14	0	27-Jan-15	176
29	Bandes plâtrée 20 cm x 2,7-3 m	4-Aug-14	0	27-Jan-15	176
30	Film digital 35X43 (bte de 100pièces) compatible avec Drystar 5300	4-Aug-14	0	28-Jan-15	177
31	Drain thoracique avec mandrin ch 14	4-Aug-14	0	9-Feb-15	189
32	Sacs de colostomie adulte	4-Aug-14	0	9-Feb-15	189

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No	Item description	Date of request	Stock on 04 August 2014	Replenishment date	Stock out period in days
33	Trousse de Perfusion pédiatrique avec débimètre	4-Aug-14	0	9-Feb-15	189
34	Sonde d'aspiration trachéale oro nasale ch18	4-Aug-14	0	25-Feb-15	205
35	Canule trachéale type Guedel pour bébé n°000	4-Aug-14	0	6-Apr-15	245
36	Hydrocephalus shunt system low pressure	4-Aug-14	0	6-Apr-15	245
37	Sacs de ureterostomie	4-Aug-14	0	6-Apr-15	245
38	Sonde vésicale à 3 voies ch 22	4-Aug-14	0	6-Apr-15	245
39	Eponge hémostatique chirurgicale 10 cm x 20 (Surgicell ou Spogel)	4-Aug-14	0	22-Apr-15	261
40	Sonde de Foley à 2 voies ch 8	4-Aug-14	0	19-May-15	288
41	Sondes rectale adulte ch 22	4-Aug-14	0	26-May-15	295
42	Sondes naso-gastriques ch 12	4-Aug-14	0	12-Jun-15	312
43	Catheter G26	4-Aug-14	0	7-Oct-15	429
44	Biopsypunch 5 mm	4-Aug-14	0	5-Nov-15	458
45	Aggraffe du cuir chevelu Raney	4-Aug-14	0		Not yet replenished
46	Aiguille d'anesthésie caudale pour enfant	4-Aug-14	0		Not yet replenished
47	Aiguille de rachi-anesthésie G25 pour enfant	4-Aug-14	0		Not yet replenished
48	Bande velpeau 20cmx4m	4-Aug-14	0		Not yet replenished
49	Canule de trachéotomie (interne et externe) avec Cuff N°5.5	4-Aug-14	0		Not yet replenished
50	Cathéter veineux de voie centrale G20 avec introducteur multilumen	4-Aug-14	0		Not yet replenished
51	Cathéter veineux de voie centrale G14 avec introducteur multilumen	4-Aug-14	0		Not yet replenished
52	Codubix R2 (134/110/19mm)	4-Aug-14	0		Not yet replenished
53	Codubix R3 (105/60/10mm)	4-Aug-14	0		Not yet replenished
54	Codubix R4 (75/75/12mm)	4-Aug-14	0		Not yet replenished
55	Cônes en papier n° 30	4-Aug-14	0		Not yet replenished
56	Cônes en papier n°20	4-Aug-14	0		Not yet replenished
57	Cônes en papier n°25	4-Aug-14	0		Not yet replenished
58	Cônes en papier n°35	4-Aug-14	0		Not yet replenished
59	Cônes en papier n°40	4-Aug-14	0		Not yet replenished
60	Drain de kehr 4mm	4-Aug-14	0		Not yet replenished
61	Drain de kehr 5mm	4-Aug-14	0		Not yet replenished
62	Drain de kehr 7mm	4-Aug-14	0		Not yet replenished
63	Drain thoracique avec mandrin ch 28	4-Aug-14	0		Not yet replenished
64	Film panoramique	4-Aug-14	0		Not yet replenished
65	Fraises pour contre angles cône renversée 018 carbure de Tg	4-Aug-14	0		Not yet replenished
66	Fraises pour contre angles sphériques 014 en carbure de tungstène	4-Aug-14	0		Not yet replenished
67	Fraises pour turbines cône renversée 14 en carbure de Tg	4-Aug-14	0		Not yet replenished
68	Mandrins pour intubation 4.3mm	4-Aug-14	0		Not yet replenished

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No	Item description	Date of request	Stock on 04 August 2014	Replenishment date	Stock out period in days
69	Masque à Oxygène du nouveau né avec sac	4-Aug-14	0		Not yet replenished
70	Miniset pour anesthésie péridurale	4-Aug-14	0		Not yet replenished
71	Prolène vasculaire 5/0 à double aiguille ronde	4-Aug-14	0		Not yet replenished
72	Sacs de colostomie pédiatrique	4-Aug-14	0		Not yet replenished
73	Sonde vésicale à 3voies non armée dufour ch 20	4-Aug-14	0		Not yet replenished
74	Sondes naso-gastriques ch 8	4-Aug-14	0		Not yet replenished
75	Sondes Urétrales ch 7	4-Aug-14	0		Not yet replenished

Appendix 5c: Stock out period for laboratory reagents requested on 04 August 2014

No	Item description	Date of request	Stock level on 4th August 2014	Date of replenishment	Stock out period in days
1	ASLO Latex Kit	08/04/2014	0	08/19/14	15
2	Arthri-test	08/04/2014	0	08/19/14	15
3	Ag HBs - Test rapide	08/04/2014	0	08/19/14	15
4	RPR (ou éventuellement VDRL) kit	08/04/2014	0	08/19/14	15
5	CRP latex (C-reactiv protein)	08/04/2014	0	08/26/14	22
6	Tubes à hémolyse (polyéthylène, 5 ml , 13x75 mm, transparent)	08/04/2014	0	09/18/14	45
7	TPHA (Treponema pallidum hémagglutination)	08/04/2014	0	09/24/14	51
8	Simmons citrate - citrate de Simons	08/04/2014	0	09/25/14	52
9	Cefotaxime - disques pour antibiogrammes compatibles avec distribute	08/04/2014	0	29-Sep-14	56
10	Ceftazidime - disques pour antibiogrammes compatibles avec distribute	08/04/2014	0	29-Sep-14	56
11	Ceftriaxone - disques pour antibiogrammes compatibles avec distribute	08/04/2014	0	29-Sep-14	56
12	Gentamicine - disques pour antibiogrammes compatibles avec distribute	08/04/2014	0	29-Sep-14	56
13	Novobiocine - disques pour diagnostic	08/04/2014	0	29-Sep-14	56
14	Penicilline G 10 µg - disques pour antibiogrammes compatibles avec	08/04/2014	0	29-Sep-14	56
15	Tetracycline - disques pour antibiogrammes compatibles avec distribut	08/04/2014	0	29-Sep-14	56
16	Uree en solution à 40%	08/04/2014	0	09/29/14	56
17	Huile à Immersion	08/04/2014	0	10/10/14	67
18	Ampicilline 10 µg - disques pour antibiogrammes compatibles avec dist	08/04/2014	0	22-Oct-14	79
19	Cefuroxime - disques pour antibiogrammes compatibles avec distribute	08/04/2014	0	22-Oct-14	79
20	Cephalotine - disques pour antibiogrammes compatibles avec distribute	08/04/2014	0	22-Oct-14	79
21	Chloramphenicol - disques pour antibiogrammes compatibles avec distri	08/04/2014	0	22-Oct-14	79
22	Disques Trimethoprime+Sulfamethoxazole (=cotrimoxazole) - disques pou	08/04/2014	0	22-Oct-14	79
23	Erythromycine - disques pour antibiogrammes compatibles avec distribu	08/04/2014	0	22-Oct-14	79

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No	Item description	Date of request	Stock level on 4th August 2014	Date of replenishment	Stock out period in days
24	Norfloxacin - disques pour antibiogrammes compatibles avec distribut	08/04/2014	0	22-Oct-14	79
25	Ofloxacin - disques pour antibiogrammes compatibles avec distribute	08/04/2014	0	22-Oct-14	79
26	Oxacilline 1 µg - disques pour antibiogrammes compatibles avec distri	08/04/2014	0	22-Oct-14	79
27	Anti HBs - Test rapide	08/04/2014	0	10/22/14	79
28	Toxo Latex Kit	08/04/2014	0	10/22/14	79
29	Cobas Integra TP Gen.2, 300 tests	08/04/2014	0	03/27/15	235
30	Cobas Integra GGT2, 400 Tests	08/04/2014	0	03/27/15	235
31	Cobas Integra ASO ,100 Tests	08/04/2014	0	03/27/15	235
32	HbA1c TQ Gen . 2 , 150 T , cobas c , Integra 800	08/04/2014	0	03/27/15	235
33	Salmonella - anti-sérum monovalent O: 4.5	08/04/2014	0	04/06/15	245
34	Cobas Integra LDHI2 acc. IFCC 300 Tests	08/04/2014	0	04/27/15	266
35	Batonnet étalement parasitologie (bois)	08/04/2014	0	04/29/15	268
36	ADAPTER for sample containers	08/04/2014	0	05/27/15	296
37	Electrode Chloride C/I	08/04/2014	0	05/27/15	296
38	Electrode ISE Potassium	08/04/2014	0	05/27/15	296
39	Electrode ISE Sodium	08/04/2014	0	05/27/15	296
40	Tubes avec héparinate de lithium 5ml	08/04/2014	0	06/11/15	311
41	Amikacine - disques pour antibiogrammes compatibles avec distributeur	08/04/2014	0	12-Jun-15	312
42	Salmonella - anti-sérum monovalent O:9 - spécifique S. typhi - (BBL 22	08/04/2014	0	12-Jun-15	312
43	Shigella - set d'antisérums polyvalents S. boydii, S. flexneri; S. dy	08/04/2014	0		Not yet replenished
44	Serum anti-shigella boydii Polyvalent C1&C2&C3	08/04/2014	0		Not yet replenished
45	Salmonella - anti-sérum monovalent H:a	08/04/2014	0		Not yet replenished
46	Serum Aggl. monovalent anti-Salm. O:1.2 fl. 3ml	08/04/2014	0		Not yet replenished
47	Serum monovalent anti-S. dysenteriae 1&2	08/04/2014	0		Not yet replenished
48	Serum sonnei fl. 2ml	08/04/2014	0		Not yet replenished
49	Melange enrichissement milieu chocolat (Polyvitex)	08/04/2014	0		Not yet replenished
50	Waller-Rose Test	08/04/2014	0		Not yet replenished
51	Latex mise en évidence antigènes pneumocoques Kit (péremption 3 mois)	08/04/2014	0		Not yet replenished

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Appendix 6: Single source suppliers who either request upfront payment or refuse to provide a performance security

No	Supplier/ company name	Country of residence
1	Global Drug Facility, Stop TB	SWITZERLAND
2	Laboratoire Renaudin	France
3	REMEDICA LTD	Cyprus
4	STATENS SERUM INSTITUT	DENMARK
5	ABBOTT	Wiesbaden
6	DIAGAST/MEDIFF	France
7	DIGITRAX CORP/MNR East African	EAST AFRICA
8	ASPEN PHARMACARE LTD	SOUTH AFRICA
9	BECTON DICKINSON INTERNATIONAL	BELGIUM
10	ABBOT GMBH	Germany
11	HUMAN DIAGNOSTICS/PHARMALAB(Distributor)	Rwanda
12	BIOMERIEUX S.A/HASS SCIENTIFIC& Medical Supplies (Distributor)	Kenya
13	PYRAMID PHARMA(Distributor)	RWANDA
14	ALERE/MNR E.A. LTD	Rwanda
15	MSD	NETHERLAND
16	FARM EAST AFRICA Ltd	Kenya
17	AFRICA BIOSYSTEMS Ltd	Kenya
18	FARAM EAST AFRICA Ltd	Kenya
19	ARVET S.A	Belgium
20	Circ MedTech Ltd	
21	Trinity Biotech Manufacturing Ltd	Ireland
22	MNR East Africa Ltd	Rwanda
23	SURGIPATH Services E.A. Limited	Kenya
24	BECTON DICKINSON International	Belgium
25	BIO-ZEQ KENYA LIMITED	Kenya
26	ANATECH INSTRUMENTS (PTY) LTD	South Africa
27	STANDARD DIAGNOSTIC Inc	South Korea
28	MICHELS SA	Belgium
29	HAIN LIFESCIENCE EAST AFRICA	Kenya
30	CEPHEID HBDC SAS	France
31	BRAM-COR	Italy
32	MEDISELL	Uganda
33	SURGIPHARM RWANDA LTD	Rwanda
34	BITZER Kuhmaschinenbau GmbH	Germany
35	CENTURION SCIENTIFIC GLOBAL	United Kingdom
36	AFRICHEM RWANDA	Rwanda
37	LIEBHERR-INTERNATIONAL DEUTSCHLAND GMBH	Germany

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No	Supplier/ company name	Country of residence
38	PHARMALAB LTD	Rwanda
39	MERITE EQUIPMENTS S.A.R.L	Rwanda
40	MEDISELL UG. LTD	Uganda
41	MEDISELL RWANDA Limited	Rwanda
42	MATACHANA S.A	Spain
43	KIPHARMA LTD (DISTRIBUTOR)	Rwanda

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Appendix 7a: Stock out of drugs at UTH-K

No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
1	MSCTC01	Dopamine ampoule 200 mg/5 ml	8/24/2015	8/27/2015	RBC/MPDD	500	3
2	MAC10	Fentanyl 0.05mg/ml ampoule de 2 ml	12/31/2013	1/3/2014	PRETEURS DIVERS	80	3
3	MAC10	Fentanyl 0.05mg/ml ampoule de 2 ml	11/11/2014	11/14/2014	RBC/MPDD	3,000	3
4	MGEAU02	Cimetidine comprimé 200mg	12/18/2014	12/22/2014	DIRECTION MED SG	27	4
5	MHAAP01	Enoxaparine 40mg(4000UI anti-Xa)	7/11/2014	7/15/2014	OPHTALMOLOGIE HOSP SG+M	5	4
6	MAG02	Fluothane flacon 250ml 1.874g	5/16/2014	5/20/2014	PRETEURS DIVERS	42	4
7	MAG02	Fluothane flacon 250ml 1.874g	12/11/2014	12/15/2014	PRETEURS DIVERS	40	4
8	MSCD07	Furosemide inj 10mg/ml amp 2ml	6/8/2015	6/12/2015	RBC/MPDD	10,000	4
9	MIAAL01	Adrenaline ampoule 1 mg/ml IV	6/5/2014	6/10/2014	DIRECTION MED SG	5	5
10	MAC10	Fentanyl 0.05mg/ml ampoule de 2 ml	1/31/2014	2/5/2014	PRETEURS DIVERS	100	5
11	MAC10	Fentanyl 0.05mg/ml ampoule de 2 ml	2/5/2014	2/10/2014	RBC/MPDD	2,840	5
12	MTMAEI13	Glucosé hypertonique 50% flacon 100 ml	10/18/2013	10/23/2013	RBC/MPDD	50	5
13	MIAAL01	Adrenaline ampoule 1 mg/ml IV	6/12/2014	6/18/2014	RBC/MPDD	4,500	6
14	MAL12	Bupivacaïne hyperbare flacon 4ml 0,50%	9/1/2015	9/7/2015	PRETEURS DIVERS	100	6
15	MAABL28	Cloxacilline flacon IM/IV 500mg	4/16/2015	4/22/2015	OPHTALMOLOGIE HOSP SG+M	30	6
16	MAG02	Fluothane flacon 250ml 1.874g	6/5/2014	6/11/2014	PRETEURS DIVERS	22	6
17	MGEAU08	Misoprostol comprimé 200µg	3/19/2015	3/25/2015	PRETEURS DIVERS	140	6
18	MAABL24	Ceftriaxone ampoule 1g	9/21/2015	9/28/2015	SURGIPHARM (RWANDA) LTD	10,000	7
19	MHAAP01	Enoxaparine 40mg(4000UI anti-Xa)	12/23/2013	12/30/2013	PHARMACIE DE DISTRIBUTION N°1	42	7
20	MHAAP01	Enoxaparine 40mg(4000UI anti-Xa)	7/15/2014	7/22/2014	RBC/MPDD	250	7
21	MIAAL06	Ephédrine ampoule 50 mg/ml	5/12/2014	5/19/2014	PHARMACIE DE DISTRIBUTION N°1	25	7
22	MDDI10	Iopamidol 370 flacon de 100ml	9/25/2014	10/2/2014	RADIO SG+P+M	12	7

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
23	MIAAL01	Adrenaline ampoule 1 mg/ml IV	2/27/2014	3/7/2014	PRETEURS DIVERS	100	8
24	MPBDA02	Aminophylline ampoule 10ml 250mg/10ml	6/4/2015	6/12/2015	RBC/MPDD	100	8
25	MSCBB01	Atenolol comprimé 50mg	7/9/2013	7/17/2013	RBC/MPDD	20,000	8
26	MAAQ06	Ciprofloxacin flacon 100ml 2mg/ml	2/13/2014	2/21/2014	GYNECO-OBSTETRIQUE SG+P+M	21	8
27	MIAID06	Dexamethasone 4mg/ml 2ml	4/2/2015	4/10/2015	SALLE 4 M	30	8
28	MAG02	Fluothane flacon 250ml 1.874g	6/19/2014	6/27/2014	PRETEURS DIVERS	30	8
29	MSCD07	Furosemide inj 10mg/ml amp 2ml	1/12/2015	1/20/2015	RBC/MPDD	2,000	8
30	MGOHU002	Ocytocine ampoule 10 UI	8/6/2013	8/14/2013	PRETEURS DIVERS	400	8
31	MHAAP03	Warfarine 5mg cp	6/9/2015	6/17/2015	EMPRUNTEURS DIVERS	220	8
32	MAL12	Bupivacaïne hyperbare flacon 4ml 0,50%	7/29/2013	8/7/2013	RBC/MPDD	20	9
33	MSCAAC05	Hydralazine injectable 20mg/ml amp 1ml	9/28/2015	10/7/2015	RBC/MPDD	500	9
34	MDDI10	Iopamidol 370 flacon de 100ml	10/8/2014	10/17/2014	RBC/MPDD	1,275	9
35	MAL04	Lidocaïne 2% flacon 50ml free of methylparaben	10/27/2014	11/5/2014	DIVERSES DONATEURS	200	9
36	MAABL23	Cefotaxime flacon 1g	8/14/2015	8/24/2015	SALLE D'OP M+P+SG	17	10
37	MAABL24	Ceftriaxone ampoule 1g	8/14/2015	8/24/2015	SALLE D'OP M+P+SG	109	10
38	MAC06	Pethidine ampoule 1ml 50 mg/ml	5/5/2014	5/15/2014	RBC/MPDD	1,690	10
39	MHAAP03	Warfarine 5mg cp	6/19/2015	6/29/2015	KIPHARMA	4,350	10
40	MAA09	Cisatracurium 20 mg flacon de 10 ml	7/3/2015	7/14/2015	SALLE D'OP M+P+SG	20	11
41	MAABL28	Cloxacilline flacon IM/IV 500mg	11/3/2014	11/14/2014	RBC/MPDD	10,000	11
42	MTMAEI09	Glucosé hypertonique 50% 20ML	5/8/2014	5/19/2014	PRETEURS DIVERS	200	11
43	MSCBB06	Propranolol ampoule 1mg/ml	6/12/2015	6/23/2015	SALLE D'OP M+P+SG	4	11
44	MAA06	Vecuronium bromure ampoule 1 ml 4mg/ml	3/31/2014	4/11/2014	RBC/MPDD	1,500	11
45	MAA14	Chaux sodée poudre 500gr	1/8/2015	1/20/2015	RBC/MPDD	30	12

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
46	MAA09	Cisatracurium 20 mg flacon de 10 ml	7/16/2015	7/28/2015	SALLE D'OP M+P+SG	14	12
47	MNAE03	Diazépam 5 mg/ ml ampoule 2ml	6/11/2015	6/23/2015	SALLE D'OP M+P+SG	25	12
48	MSCBB06	Propranolol ampoule 1mg/ml	7/16/2015	7/28/2015	SALLE D'OP M+P+SG	4	12
49	MIAAL01	Adrenaline ampoule 1 mg/ml IV	4/16/2014	4/29/2014	DIVERSES DONATEURS	240	13
50	MAABL28	Cloxacilline flacon IM/IV 500mg	2/27/2015	3/12/2015	RBC/MPDD	5,000	13
51	MHHG02	Dicynone injectable (etamsylate)	2/10/2015	2/23/2015	SALLE 4 M	50	13
52	MTMAEI09	Glucosé hypertonique 50% 20ML	6/3/2014	6/16/2014	PRETEURS DIVERS	152	13
53	MGEAU08	Misoprostol comprimé 200µg	3/6/2015	3/19/2015	PRETEURS DIVERS	56	13
54	MHHG01	Phytomenadione ampoule 1ml 10mg/ml	8/20/2013	9/2/2013	PRETEURS DIVERS	300	13
55	MAL12	Bupivicaïne hyperbare flacon 4ml 0,50%	10/31/2014	11/14/2014	RBC/MPDD	1,000	14
56	MAABL23	Cefotaxime flacon 1g	3/25/2015	4/8/2015	PRETEURS DIVERS	500	14
57	MAG02	Fluothane flacon 250ml 1.874g	7/17/2014	7/31/2014	RBC/MPDD	163	14
58	MNAOEC01	Mannitol 10% flacon 500ml	3/27/2015	4/10/2015	RBC/MPDD	200	14
59	MAPPR04	Metronidazole Flacon IV, IM 500mg	2/4/2015	2/18/2015	SUN ENTREPRISE	1,000	14
60	MHHG01	Phytomenadione ampoule 1ml 10mg/ml	6/3/2015	6/17/2015	PRETEURS DIVERS	100	14
61	MHAAP05	Warfarine 2mg Cp	4/10/2015	4/24/2015	SUN ENTREPRISE	10,000	14
62	MTMAEI17	Eau pour injection 5ml	10/12/2015	10/27/2015	DISTRICT NYARUGENGE	120	15
63	MAG02	Fluothane flacon 250ml 1.874g	4/14/2014	4/29/2014	PRETEURS DIVERS	42	15
64	MIAAL01	Adrenaline ampoule 1 mg/ml IV	5/12/2014	5/28/2014	PRETEURS DIVERS	300	16
65	MTMAEI05	Chlorure de Potassium 10% ampoule 10 ml	11/25/2013	12/11/2013	RBC/MPDD	1,000	16
66	MIAAL06	Ephédrine ampoule 50 mg/ml	12/8/2014	12/24/2014	RBC/MPDD	1,000	16
67	MAG02	Fluothane flacon 250ml 1.874g	6/30/2014	7/17/2014	PRETEURS DIVERS	18	17
68	MAG02	Fluothane flacon 250ml 1.874g	11/24/2014	12/11/2014	PRETEURS DIVERS	3	17
69	MSCD07	Furosemide inj 10mg/ml amp 2ml	9/30/2014	10/17/2014	EMPRUNTEURS DIVERS	300	17

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
70	MNAE03	Diazépam 5 mg/ ml ampoule 2ml	3/24/2014	4/11/2014	RBC/MPDD	5,000	18
71	MSCD07	Furosemide inj 10mg/ml amp 2ml	2/9/2015	2/27/2015	RBC/MPDD	10,000	18
72	MAPPR16	Metronidazole comp 500mg	10/10/2013	10/28/2013	RBC/MMC	4,000	18
73	MAC09	Morphine ampoule 1ml 10 mg/ml	8/8/2014	8/26/2014	KIPHARMA	12,000	18
74	MAP06	Paracetamol suppositoire 125 mg	4/3/2014	4/21/2014	RBC/MPDD	200	18
75	MAC06	Pethidine ampoule 1ml 50 mg/ml	8/8/2014	8/26/2014	KIPHARMA	7,000	18
76	MAAP07	Diclofenac amp 75mg/3ml	1/23/2014	2/11/2014	RBC/MPDD	12,000	19
77	MAAQ06	Ciprofloxacin flacon 100ml 2mg/ml	1/21/2014	2/10/2014	OPHTALMOLOGIE HOSP SG+M	52	20
78	MAABL28	Cloxacilline flacon IM/IV 500mg	2/3/2015	2/23/2015	SALLE 4 M	400	20
79	MAABL37	Meropenem 1g flac pour erfusion iv	4/8/2015	4/28/2015	SUN ENTREPRISES	100	20
80	MAC09	Morphine ampoule 1ml 10 mg/ml	4/30/2014	5/20/2014	PRETEURS DIVERS	30	20
81	MTMCV07	Multivitamine sirop flacon de 60ml	9/18/2014	10/9/2014	RBC/MPDD	505	21
82	MIAAL01	Adrenaline ampoule 1 mg/ml IV	3/17/2014	4/8/2014	PHARMACIE UBUMWE	100	22
83	MAL12	Bupivacaïne hyperbare flacon 4ml 0,50%	9/8/2015	9/30/2015	SALLE D'OP M+P+SG	92	22
84	MAAT01	Doxycycline comprimé 100 mg	12/2/2014	12/24/2014	RBC/MPDD	2,000	22
85	MAPPR16	Metronidazole comp 500mg	4/16/2014	5/8/2014	DIVERSES DONATEURS	600	22
86	MGEAU08	Misoprostol comprimé 200µg	11/26/2014	12/18/2014	PRETEURS DIVERS	400	22
87	MAA02	Neostigmine ampoule 1ml 0.5 mg/ml	11/10/2014	12/2/2014	PRETEURS DIVERS	40	22
88	MHHG01	Phytomenadione ampoule 1ml 10mg/ml	12/2/2014	12/24/2014	RBC/MPDD	500	22
89	MOD07	Tetracycline opht. Pommade 5mg	6/8/2015	6/30/2015	RBC/MPDD	2,000	22
90	MIAID06	Dexamethasone 4mg/ml 2ml	1/14/2015	2/6/2015	SUN ENTREPRISE	1,300	23
91	MAAT01	Doxycycline comprimé 100 mg	4/15/2014	5/8/2014	DIVERSES DONATEURS	790	23
92	MHAAP01	Enoxaparine 40mg(4000UI anti-Xa)	2/19/2014	3/14/2014	PRETEURS DIVERS	2	23
93	MTMAEI09	Glucosé hypertonique 50% 20ML	3/25/2014	4/17/2014	PRETEURS DIVERS	300	23
94	MAC07	Morphine 10 mg/co	2/3/2015	2/27/2015	RBC/MPDD	3,000	24

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
95	MHAAP01	Enoxaparine 40mg(4000UI anti-Xa)	8/1/2014	8/26/2014	KIPHARMA	200	25
96	MSCD07	Furosemide inj 10mg/ml amp 2ml	10/17/2014	11/12/2014	EMPRUNTEURS DIVERS	200	26
97	MAP08	Pro-pacetamol inj flacon 1gr	6/3/2015	6/29/2015	KIPHARMA	80	26
98	MAL11	Bupivacaïne flacon 20ml 0,50% sans methylparaben	12/20/2013	1/16/2014	PRETEURS DIVERS	20	27
99	MAL12	Bupivacaïne hyperbare flacon 4ml 0,50%	12/20/2013	1/16/2014	PRETEURS DIVERS	100	27
100	MAL10	Lidocaine spray 10% flacon 50ml	2/13/2014	3/12/2014	RBC/MPDD	30	27
101	MRIT01	Naloxone 0.4mg amp de 1ml	9/10/2015	10/7/2015	RBC/MPDD	30	27
102	MTMCV11	Vitamine B complex comprimé 30mg	7/11/2013	8/7/2013	RBC/MPDD	2,000	27
103	MNAOEC01	Mannitol 10% flacon 500ml	11/26/2014	12/24/2014	RBC/MPDD	100	28
104	MANFON11	Miconazole Nitrate gel orale gel 40g (Daktarin)	7/3/2015	7/31/2015	RBC/MPDD	10	28
105	MAC07	Morphine 10 mg/co	5/15/2015	6/12/2015	RBC/MPDD	10,000	28
106	MIAAL08	Promethazine ampoule 50 mg/2ml	2/12/2015	3/12/2015	RBC/MPDD	100	28
107	MSCIC05	Amlodipine besilate cés 5mg	4/9/2014	5/8/2014	DIVERSES DONATEURS	1,440	29
108	MAA08	Chaux sodée poudre 5kg	9/9/2013	10/8/2013	PRETEURS DIVERS	1	29
109	MAAQ06	Ciprofloxacin flacon 100ml 2mg/ml	3/2/2015	3/31/2015	SUN ENTREPRISES	1,500	29
110	MSCD08	Losartan 50mg comp secable	2/11/2014	3/12/2014	RBC/MPDD	15,008	29
111	MHHG01	Phytomenadione ampoule 1ml 10mg/ml	7/2/2015	7/31/2015	RBC/MPDD	2,000	29
112	MTMAEI02	Bicarbonate de Sodium 8,4% ampoule 10ml 8,40%	6/18/2014	7/18/2014	RBC/MPDD	300	30
113	MHAAP03	Warfarine 5mg cp	3/25/2015	4/24/2015	KIPHARMA	200	30
114	MAVG06	Acyclovir 5% creme 5g	10/21/2013	11/21/2013	CAMERWA ARV	5	31
115	MAVG01	Acyclovir comprimé 200mg	2/9/2015	3/12/2015	RBC/MPDD	600	31
116	MTMAEI13	Glucosé hypertonique 50% flacon 100 ml	12/20/2013	1/20/2014	DIVERSES DONATEURS	50	31
117	MHAAP02	Heparine inj 5000 UI/ml flacon 5 ml	4/8/2014	5/9/2014	SALLE D'OP M+P+SG	15	31

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
118	MAABL23	Cefotaxime flacon 1g	9/10/2015	10/12/2015	KIPHARMA	5,000	32
119	MHHG01	Phytomenadione ampoule 1ml 10mg/ml	1/8/2014	2/11/2014	RBC/MPDD	2,000	34
120	MHAAP01	Enoxaparine 40mg(4000UI anti-Xa)	9/1/2015	10/6/2015	KIPHARMA	1,662	35
121	MTMAEI13	Glucosé hypertonique 50% flacon 100 ml	6/10/2014	7/15/2014	PRETEURS DIVERS	15	35
122	MNAE12	Midazolam inj 5 mg/5 ml par ampoule	1/21/2015	2/25/2015	SANTE MANTALE PHARMACIE	10	35
123	MAC09	Morphine ampoule 1ml 10 mg/ml	2/5/2014	3/12/2014	RBC/MPDD	1,000	35
124	MAAT01	Doxycycline comprimé 100 mg	2/4/2015	3/12/2015	RBC/MPDD	10,000	36
125	MAABL37	Meropenem 1g flac pour erfusion iv	9/23/2015	10/29/2015	SUN ENTREPRISE	500	36
126	MAAGP01	Vancomycine vial 500 mg	2/23/2015	3/31/2015	SUN ENTREPRISES	471	36
127	MAABL28	Cloxacilline flacon IM/IV 500mg	5/12/2014	6/18/2014	RBC/MPDD	10,000	37
128	MTMAEI06	Gelatines fluides flacon 500ml (Haemacell)	3/10/2014	4/16/2014	DIVERSES DONATEURS	50	37
129	MAPPR04	Metronidazole Flacon IV, IM 500mg	3/4/2015	4/10/2015	RBC/MPDD	20,000	37
130	MSCIC05	Amlodipine besilate cés 5mg	4/10/2015	5/19/2015	RBC/MPDD	1,484	39
131	MAAA01	Gentamycine ampoule de 2ml 80 mg/amp	10/6/2014	11/14/2014	RBC/MPDD	5,000	39
132	MPBDA02	Aminophylline ampoule 10ml 250mg/10ml	11/14/2014	12/24/2014	RBC/MPDD	200	40
133	MGEAU08	Misoprostol comprimé 200µg	12/18/2014	1/27/2015	PRETEURS DIVERS	300	40
134	MIAAL07	Prométhazine comprimé 25 mg	1/31/2015	3/12/2015	RBC/MPDD	100	40
135	MAABL24	Ceftriaxone ampoule 1g	10/31/2013	12/11/2013	RBC/MPDD	10,000	41
136	MSCTC03	Digoxine comprimé 0,25 mg	6/30/2015	8/12/2015	PHARMACIE DE DISTRIBUTION N°1	100	43
137	MAPHEL03	Mebendazole sirop 30ml 100 mg/5 ml	4/29/2015	6/12/2015	RBC/MPDD	50	44
138	MHAAP03	Warfarine 5mg cp	4/24/2015	6/8/2015	KIPHARMA	375	45
139	MAPPR11	Artemisininine 20mg+luméfantine 120mg (12ces)	4/10/2015	5/28/2015	RBC/MPDD	150	48
140	MAAQ06	Ciprofloxacin flacon 100ml 2mg/ml	7/18/2014	9/4/2014	SUN ENTREPRISES	1,500	48

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
141	MHAAP01	Enoxaparine 40mg(4000UI anti-Xa)	3/5/2015	4/22/2015	OPHTALMOLOGIE HOSP SG+M	20	48
142	MAPPR11	Artemisininine 20mg+luméfantrine 120mg (12ces)	12/20/2013	2/7/2014	RBC/MMC	240	49
143	MTMAEI06	Gelatines fluides flacon 500ml (Haemacell)	12/2/2014	1/20/2015	RBC/MPDD	150	49
144	MPBDA12	Salbutamol nebulisation 5mg/ml 1ml	11/24/2014	1/12/2015	PRETEURS DIVERS	60	49
145	MDDI25	Bonding agent	8/24/2015	10/13/2015	CROWN	4	50
146	MTMAEI04	Calcium Gluconate ampoule 10ml 10%	3/31/2014	5/21/2014	PAVILLON CLINIQUE M	2	51
147	MAABL28	Cloxacilline flacon IM/IV 500mg	4/22/2015	6/12/2015	RBC/MPDD	10,000	51
148	MSCAAC05	Hydralazine injectable 20mg/ml amp 1ml	9/23/2014	11/14/2014	RBC/MPDD	200	52
149	MTMGR02	Insuline lente Flacon 10 ml 100 UI/ml HM	6/27/2014	8/18/2014	ABACUS PHARMA	108	52
150	MAL07	Lidocaïne 2% +Adrenaline; carp dent amp 1.8ml 2%	2/6/2014	3/31/2014	RBC/MPDD	550	53
151	MGEARG03	Metoclopramide ampoule 10 mg/2ml	6/26/2014	8/18/2014	ABACUS PHARMA	1,000	53
152	MAP03	Paracetamol sirop 120mg/5 ml 100ml	12/19/2013	2/11/2014	RBC/MPDD	75	54
153	MIAID05	Prednisolone comp 5mg	2/26/2014	4/21/2014	RBC/MPDD	550,000	54
154	MSCBB01	Atenolol comprimé 50mg	3/5/2014	4/29/2014	DIVERSES DONATEURS	1,500	55
155	MSCD08	Losartan 50mg comp secable	3/4/2015	4/28/2015	SUN ENTREPRISES	4,480	55
156	MAABL23	Cefotaxime flacon 1g	7/19/2013	9/13/2013	RBC/MPDD	10,000	56
157	MIAAL06	Ephédrine ampoule 50 mg/ml	10/7/2014	12/2/2014	PRETEURS DIVERS	20	56
158	MAA02	Neostigmine ampoule 1ml 0.5 mg/ml	4/14/2015	6/9/2015	PRETEURS DIVERS	85	56
159	MSCD07	Furosemide inj 10mg/ml amp 2ml	11/13/2014	1/9/2015	PRETEURS DIVERS	220	57
160	MTMAEI13	Glucosé hypertonique 50% flacon 100 ml	7/24/2014	9/19/2014	KIPHARMA	100	57
161	MHHG01	Phytomenadione ampoule 1ml 10mg/ml	10/7/2013	12/3/2013	PRETEURS DIVERS	100	57
162	MAC03	Tramadol hydrochloride Capsules 50 mg	10/15/2013	12/11/2013	RBC/MPDD	12,000	57
163	MAVG01	Acyclovir comprimé 200mg	10/27/2014	12/24/2014	RBC/MPDD	990	58

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
164	MAVG02	Acyclovir comprimé 800mg	3/25/2014	5/22/2014	DIVERSES DONATEURS	1,000	58
165	MAAQ05	Ciprofloxacin comprimé 500 mg	7/22/2015	9/18/2015	SUN ENTREPRISES	20,000	58
166	MAG01	Ketamine 50 mg/ml flacon 10 ml	3/31/2014	5/28/2014	RBC/MPDD	400	58
167	MAPPR01	Metronidazole comprimé 250mg	9/17/2014	11/14/2014	RBC/MPDD	20,000	58
168	MIAID06	Dexamethasone 4mg/ml 2ml	7/10/2015	9/7/2015	SUN ENTREPRISE	1,500	59
169	MAPPR04	Metronidazole Flacon IV, IM 500mg	3/10/2014	5/8/2014	DIVERSES DONATEURS	18	59
170	MPA01	Paidoterin sirop flacon de 100ml	7/16/2013	9/13/2013	DIVERSES DONATEURS	48	59
171	MHAA06	Tot'hema ampoule buvable solution de 10ml	2/24/2015	4/24/2015	KIPHARMA	200	59
172	MGEAU08	Misoprostol comprimé 200µg	9/25/2014	11/24/2014	PRETEURS DIVERS	200	60
173	MAL07	Lidocaïne 2% +Adrenaline; carp dent amp 1.8ml 2%	4/17/2015	6/17/2015	CROWN	5,000	61
174	MAPPR01	Metronidazole comprimé 250mg	6/18/2014	8/18/2014	ABACUS PHARMA	2,000	61
175	MDIVER08	Tadalafil comp 20mg	1/29/2015	3/31/2015	SUN ENTREPRISES	100	61
176	MAABL23	Cefotaxime flacon 1g	8/8/2014	10/9/2014	RBC/MPDD	43,650	62
177	MAABL26	Cloxacilline gélule 250 mg	8/8/2014	10/9/2014	RBC/MPDD	20,000	62
178	MUD01	Finasteride comp 5mg	6/9/2015	8/10/2015	KIPHARMA	240	62
179	MTMGR05	Gliclazide (Diamicon) 80 mg comp	11/27/2013	1/28/2014	KIPHARMA	20,000	62
180	MAAS02	Phloroglucinol (Spasfon) comp de 80mg	7/7/2015	9/7/2015	SUN ENTREPRISE	300	62
181	MSVV02	Vaccins Anti-Rabique ampoule 2,5ui	7/7/2015	9/7/2015	SUN ENTREPRISE	200	62
182	MSVS01	Serum Anti-Tétanique ampoule 1ml 1500ui	8/7/2014	10/9/2014	RBC/MPDD	3,000	63
183	MAL12	Bupivacaïne hyperbare flacon 4ml 0,50%	4/6/2015	6/9/2015	PRETEURS DIVERS	100	64
184	MGEAU04	Cimetidine injectable 200mg/2ml	3/16/2015	5/19/2015	RBC/MPDD	2,600	64
185	MTMGR03	Glibenclamide comprimé 5 mg	3/5/2014	5/8/2014	DIVERSES DONATEURS	1,500	64
186	MHAAP02	Heparine inj 5000 UI/ml flacon 5 ml	7/16/2015	9/18/2015	PRETEURS DIVERS	200	64

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
187	MAABL26	Cloxacilline gélule 250 mg	12/2/2014	2/6/2015	SUN ENTREPRISE	20,000	66
188	MSCD08	Losartan 50mg comp secable	12/2/2014	2/6/2015	SUN ENTREPRISE	1,988	66
189	MHAAP04	Warfarine 1mg Cp	4/10/2015	6/15/2015	SUN ENTREPRISE	5,000	66
190	MAAP03	Ibuprofen sirop 60ml 100mg/5ml	12/5/2013	2/11/2014	RBC/MPDD	450	68
191	MAVG02	Acyclovir comprimé 800mg	6/30/2015	9/7/2015	SUN ENTREPRISE	1,500	69
192	MTMGR05	Glibenclamide comprimé 5 mg	7/30/2015	10/7/2015	RBC/MPDD	20,000	69
193	MSCD05	Spironolactone cés 25mg	1/2/2014	3/12/2014	RBC/MPDD	28,000	69
194	MAL10	Lidocaine spray 10% flacon 50ml	6/26/2014	9/4/2014	SUN ENTREPRISES	30	70
195	MAPPR13	Artémisinine 20mg+luméfantrine 120mg (24ces)	2/11/2014	4/24/2014	RBC/GF	240	72
196	MSCIC05	Amlodipine besilate cés 5mg	7/7/2015	9/18/2015	SUN ENTREPRISES	7,000	73
197	MAABL23	Cefotaxime flacon 1g	2/10/2014	4/24/2014	DIVERSES DONATEURS	2,000	73
198	MAA14	Chaux sodée poudre 500gr	6/8/2015	8/20/2015	RBC/MPDD	80	73
199	MAC09	Morphine ampoule 1ml 10 mg/ml	7/22/2013	10/3/2013	PRETEURS DIVERS	30	73
200	MAAGP01	Vancomycine vial 500 mg	11/24/2014	2/6/2015	SUN ENTREPRISE	80	74
201	MSCBB02	Atenolol comprimé 100mg	8/9/2013	10/23/2013	RBC/MPDD	2,800	75
202	MTMAEI04	Calcium Gluconate ampoule 10ml 10%	1/2/2014	3/19/2014	PRETEURS DIVERS	100	76
203	MAVG01	Acyclovir comprimé 200mg	3/25/2015	6/12/2015	RBC/MPDD	4,200	79
204	MAL11	Bupivacaïne flacon 20ml 0,50% sans methylparaben	7/29/2013	10/17/2013	RBC/MPDD	250	80
205	MGEAU01	Oméprazole gélule 20mg	6/30/2015	9/18/2015	SUN ENTREPRISES	30,000	80
206	MSCD05	Spironolactone cés 25mg	2/3/2015	4/24/2015	KIPHARMA	2,200	80
207	MTMGR09	Insuline mixte 30/70 100 UI/ml 10 ml	3/19/2015	6/12/2015	RBC/MPDD	500	85
208	MAAN01	Nitrofurantoïne comprimé 100 mg	2/23/2015	5/19/2015	RBC/MPDD	4,000	85
209	MAPPR13	Artémisinine 20mg+luméfantrine 120mg (24ces)	11/13/2013	2/7/2014	RBC/MMC	30	86
210	MAABL09	Amoxycilline sirop 100 ml 250mg/5ml	2/10/2014	5/8/2014	DIVERSES DONATEURS	21	87

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
211	MAAQ06	Ciprofloxacin flacon 100ml 2mg/ml	2/21/2014	5/19/2014	PAVILLON CLINIQUE M	75	87
212	MTMAEI04	Calcium Gluconate ampoule 10ml 10%	5/30/2014	8/26/2014	PRETEURS DIVERS	100	88
213	MAP08	Pro-pacetamol inj flacon 1gr	7/10/2015	10/6/2015	KIPHARMA	1,000	88
214	MTMAEI05	Chlorure de Potassium 10% ampoule 10 ml	6/27/2014	9/24/2014	PRETEURS DIVERS	30	89
215	MPA01	Paidoterin sirop flacon de 100ml	6/10/2015	9/7/2015	SUN ENTREPRISE	120	89
216	MAA08	Chaux sodée poudre 5kg	10/9/2013	1/7/2014	PRETEURS DIVERS	5	90
217	MTMAEI05	Chlorure de Potassium 10% ampoule 10 ml	9/25/2014	12/24/2014	RBC/MPDD	500	90
218	MAAM04	Clarithromycine comp 250 mg	2/18/2015	5/19/2015	RBC/MPDD	4,998	90
219	MIAAL06	Ephédrine ampoule 50 mg/ml	6/26/2014	9/24/2014	PRETEURS DIVERS	200	90
220	MAAS05	Butylscopolamine comprimé 10 mg	8/26/2013	11/25/2013	RBC/MPDD	3,000	91
221	MIAID06	Dexamethasone 4mg/ml 2ml	4/10/2015	7/10/2015	PRETEURS DIVERS	20	91
222	MAPHEL03	Mebendazole sirop 30ml 100 mg/5 ml	1/27/2015	4/28/2015	SUN ENTREPRISES	10	91
223	MGEARG03	Metoclopramide ampoule 10 mg/2ml	12/11/2014	3/12/2015	RBC/MPDD	500	91
224	MGEAD01	Sels de Réhydratation Oral Poudre 20.5 g	12/11/2014	3/12/2015	RBC/MPDD	300	91
225	MGEAU04	Cimetidine injectable 200mg/2ml	11/27/2014	2/27/2015	RBC/MPDD	1,000	92
226	MAAA01	Gentamycine ampoule de 2ml 80 mg/amp	6/4/2014	9/4/2014	SUN ENTREPRISES	1,000	92
227	MAVG02	Acyclovir comprimé 800mg	3/12/2015	6/15/2015	SUN ENTREPRISE	500	95
228	MAAS05	Butylscopolamine comprimé 10 mg	8/7/2014	11/10/2014	KIPHARMA	1,000	95
229	MSVS01	Serum Anti-Tétanique ampoule 1ml 1500ui	6/4/2015	9/7/2015	SUN ENTREPRISE	600	95
230	MAPPR10	Artémisinine 20mg+luméfantrine 120mg (6ces)	8/20/2014	11/24/2014	RBC/MPDD	90	96
231	MSCBB01	Atenolol comprimé 50mg	6/3/2015	9/7/2015	SUN ENTREPRISE	5,000	96
232	MTMCV07	Multivitamine sirop flacon de 60ml	6/3/2015	9/7/2015	SUN ENTREPRISE	200	96
233	MAC03	Tramadol hydrochloride Capsules 50 mg	6/3/2015	9/7/2015	SUN ENTREPRISE	25,000	96

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
234	MAC04	Tramadol hydrochloride 50 mg/ml amp. 2 ml	6/3/2015	9/7/2015	SUN ENTREPRISE	5,000	96
235	MAL11	Bupivacaïne flacon 20ml 0,50% sans methylparaben	6/1/2015	9/9/2015	PRETEURS DIVERS	300	100
236	MIAID06	Dexamethasone 4mg/ml 2ml	6/26/2014	10/9/2014	RBC/MPDD	3,000	105
237	MAP09	Acide acetylsalicylique (Aspirine) comprimé 100 mg	12/2/2014	3/20/2015	KIPHARMA	5,000	108
238	MSCAAC05	Hydralazine injectable 20mg/ml amp 1ml	6/4/2014	9/22/2014	PRETEURS DIVERS	10	110
239	MAAQ06	Ciprofloxacin flacon 100ml 2mg/ml	10/13/2014	2/6/2015	SUN ENTREPRISE	500	116
240	MAC03	Tramadol hydrochloride Capsules 50 mg	4/24/2014	8/18/2014	ABACUS PHARMA	15,000	116
241	MHAAP02	Heparine inj 5000 UI/ml flacon 5 ml	5/9/2014	9/4/2014	SUN ENTREPRISES	550	118
242	MAG05	Thiopental iv 20 ml 500 mg	6/11/2015	10/7/2015	RBC/MPDD	3,000	118
243	MHAAP01	Enoxaparine 40mg(4000UI anti-Xa)	3/14/2014	7/11/2014	OPHTALMOLOGIE HOSP SG+M	15	119
244	MSTOMA25	KAVO spray flacon de 500ml avec pulveriseur	11/21/2014	3/20/2015	CROWN	2	119
245	MAABL37	Meropenem 1g flac pour perfusion iv	5/8/2015	9/4/2015	SUN ENTREPRISE	280	119
246	MAA02	Neostigmine ampoule 1ml 0.5 mg/ml	12/8/2014	4/6/2015	PAVILLON CLINIQUE M	10	119
247	MOAG01	Acetazolamide comprimé 250mg	6/8/2015	10/6/2015	KIPHARMA	1,000	120
248	MAABL06	Amoxicilline gélule 250 mg	5/21/2015	9/18/2015	SUN ENTREPRISES	30,001	120
249	MSCIC04	Nifedipine comprimé 20mg	12/29/2014	4/28/2015	SUN ENTREPRISES	1,000	120
250	MPBDA12	Salbutamol nebulisation 5mg/ml 1ml	2/12/2015	6/12/2015	RBC/MPDD	3,000	120
251	MAAM05	Clarithromycine comp 500mg	12/20/2013	4/21/2014	RBC/MPDD	4,998	122
252	MTMGR04	Metformine (Glucophage) comprimé 500mg	5/19/2015	9/18/2015	SUN ENTREPRISES	7,994	122
253	MTMGR01	Insuline rapide Flacon 10 ml 100 UI/ml HM	4/17/2014	8/18/2014	ABACUS PHARMA	200	123
254	MGEARG07	Domperidone 10mg	8/20/2014	12/22/2014	DIRECTION MED SG	28	124
255	MRNEP02	Intravenous fat emulsion 20% flac de 500ml	3/19/2015	7/21/2015	SOINS INTENSIFS SG+P+M	17	124

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
256	MAAT01	Doxycycline comprimé 100 mg	5/13/2014	9/15/2014	SUN ENTREPRISE	5,000	125
257	MAL07	Lidocaïne 2% +Adrenaline; carp dent amp 1.8ml 2%	4/16/2014	8/19/2014	DUPHAR	1,300	125
258	MAL10	Lidocaine spray 10% flacon 50ml	10/11/2013	2/13/2014	PRETEURS DIVERS	2	125
259	MIAAL03	Dexchlorpheniramine comprimé 4 mg	1/13/2015	5/19/2015	RBC/MPDD	3,000	126
260	MTMAEI13	Glucosé hypertonique 50% flacon 100 ml	2/4/2014	6/10/2014	DIRECTION MED SG	1	126
261	MTMAEI06	Gelatines fluides flacon 500ml (Haemacell)	4/30/2014	9/4/2014	SUN ENTREPRISES	400	127
262	MAP06	Paracetamol suppositoire 125 mg	4/30/2014	9/4/2014	SUN ENTREPRISES	30,000	127
263	MAPPR04	Metronidazole Flacon IV, IM 500mg	5/9/2014	9/15/2014	SUN ENTREPRISE	10,000	129
264	MSCIC04	Nifedipine comprimé 20mg	4/29/2015	9/7/2015	SUN ENTREPRISE	10,000	131
265	MAACT03	Chloramphenicol flacon 1 g	1/31/2015	6/12/2015	RBC/MPDD	2,000	132
266	MAVG02	Acyclovir comprimé 800mg	7/11/2013	11/25/2013	RBC/MPDD	1,000	137
267	MIAAL03	Dexchlorpheniramine comprimé 4 mg	12/5/2013	4/21/2014	RBC/MPDD	2,000	137
268	MNAOEC02	Mannitol 20% flacon 500 ml	1/2/2014	5/20/2014	PRETEURS DIVERS	2	138
269	MAL11	Bupivicaïne flacon 20ml 0,50% sans methylparaben	9/29/2014	2/17/2015	PRETEURS DIVERS	210	141
270	MAABL26	Cloxacilline gélule 250 mg	4/30/2015	9/18/2015	SUN ENTREPRISES	30,000	141
271	MAAM05	Clarithromycine comp 500mg	12/23/2014	5/15/2015	KIPHARMA	1,000	143
272	MGEARG02	Metoclopramide comprimé 10 mg	11/28/2013	4/21/2014	RBC/MPDD	1,000	144
273	MHAA06	Tot'hema ampoule buvable solution de 10ml	5/15/2015	10/6/2015	KIPHARMA	1,000	144
274	MGEAU01	Oméprazole gélule 20mg	10/17/2013	3/12/2014	RBC/MPDD	48,000	146
275	MTMAEI06	Gelatines fluides flacon 500ml (Haemacell)	4/20/2015	9/22/2015	SUN ENTREPRISES	340	155
276	MAAP01	Ibuprofen comprimé 200 mg	2/26/2015	7/31/2015	RBC/MPDD	7,000	155
277	MAAM04	Clarithromycine comp 250 mg	6/4/2015	11/9/2015	SUN ENTREPRISES	5,000	158
278	MSCIC04	Nifedipine comprimé 20mg	2/10/2014	7/18/2014	RBC/MPDD	30,000	158
279	MAAP01	Ibuprofen comprimé 200 mg	4/9/2014	9/15/2014	KIPHARMA	7,000	159

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
280	MAVG01	Acyclovir comprimé 200mg	4/30/2014	10/9/2014	RBC/MPDD	1,000	162
281	MAABL14	Amoxicilline +Acide clavulanique comprimé 625 mg	12/4/2014	5/15/2015	KIPHARMA	840	162
282	MPA01	Paidoterin sirop flacon de 100ml	3/24/2014	9/4/2014	SUN ENTREPRISES	200	164
283	MAAS05	Butylscopolamine comprimé 10 mg	3/25/2015	9/7/2015	3,000	3,000	166
284	MAAP06	Diclofenac suppositoire 100 mg	3/25/2015	9/7/2015	SUN ENTREPRISE	2,000	166
285	MAAN01	Nitrofurantoïne comprimé 100 mg	11/5/2013	4/21/2014	RBC/MPDD	1,000	167
286	MTMAEI09	Glucosé hypertonique 50% 20ML	9/30/2013	3/19/2014	PRETEURS DIVERS	100	170
287	MSCAV01	Nitroglycerine ces 150 mcg	7/3/2014	12/22/2014	DIRECTION MED SG	60	172
288	MSCD05	Spirolactone cés 25mg	5/11/2015	10/30/2015	KIPHARMA	1,800	172
289	MAC03	Tramadol hydrochloride Capsules 50 mg	11/6/2014	4/28/2015	SUN ENTREPRISES	5,000	173
290	MPA02	Carbocysteine (Fluditec) sirop 5%	4/15/2015	10/6/2015	KIPHARMA	100	174
291	MGEAU01	Oméprazole gélule 20mg	8/18/2014	2/9/2015	SUN ENTREPRISE	20,000	175
292	MRIT02	Charbon activé comprimé 125 mg	6/30/2014	12/24/2014	RBC/MPDD	1,000	177
293	MIAAL03	Dexchlorpheniramine comprimé 4 mg	6/27/2014	12/22/2014	DIRECTION MED SG	40	178
294	MPBDA12	Salbutamol nebulisation 5mg/ml 1ml	5/29/2014	11/24/2014	PRETEURS DIVERS	10	179
295	MGEL02	Bisacodil (Dulcolax) comprimé 5 mg	9/10/2013	3/12/2014	RBC/MPDD	3,000	183
296	MAAQ04	Ciprofloxacine comprimé 250mg	12/23/2013	6/26/2014	RBC/MPDD	5,000	185
297	MGEL02	Bisacodil (Dulcolax) comprimé 5 mg	2/26/2015	9/7/2015	SUN ENTREPRISE	7,000	193
298	MPBDA02	Aminophylline ampoule 10ml 250mg/10ml	7/19/2013	1/29/2014	SALLE 3 M	10	194
299	MGEL02	Bisacodil (Dulcolax) comprimé 5 mg	7/30/2014	2/9/2015	SUN ENTREPRISE	1,000	194
300	MAAQ04	Ciprofloxacine comprimé 250mg	3/16/2015	10/6/2015	KIPHARMA	658	204
301	MHAAP02	Heparine inj 5000 UI/ml flacon 5 ml	9/12/2013	4/4/2014	PRETEURS DIVERS	25	204
302	MAL01	Lidocaïne 1% flacon 20ml	12/24/2014	7/16/2015	RADIO SG+P+M	15	204
303	MTMAEI02	Bicarbonate de Sodium 8,4% ampoule 10ml 8,40%	10/10/2013	5/7/2014	SALLE 7 M	3	209
304	MDIVER02	Glycerine Lotion (ML)	12/20/2013	7/18/2014	RBC/MPDD	720,000	210

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
305	MTMAEI05	Chlorure de Potassium 10% ampoule 10 ml	3/5/2015	10/12/2015	KIPHARMA	1,000	221
306	MAAM04	Clarithromycine comp 250 mg	6/27/2014	2/6/2015	SUN ENTREPRISE	2,000	224
307	MAP09	Acide acetylsalicylique (Aspirine) comprimé 100 mg	2/4/2014	9/19/2014	KIPHARMA	7,000	227
308	MSCAV01	Nitroglycerine ces 150 mcg	10/22/2013	6/10/2014	DIRECTION MED SG	60	231
309	MAVG02	Acyclovir comprimé 800mg	6/27/2014	2/18/2015	SUN ENTREPRISE	500	236
310	MAL03	Lidocaïne 2% flacon 20ml sans methylparaben	5/27/2014	1/20/2015	RBC/MPDD	1,000	238
311	MGEAD01	Sels de Réhydratation Oral Poudre 20.5 g	2/10/2014	10/9/2014	RBC/MPDD	400	241
312	MTMGR01	Insuline rapide Flacon 10 ml 100 UI/ml HM	10/27/2014	6/30/2015	RBC/MPDD	1,000	246
313	MAL04	Lidocaïne 2% flacon 50ml free of methylparaben	11/27/2014	7/31/2015	RBC/MPDD	500	246
314	MNAE13	Midazolam inj 5 mg/5 ml par ampoule	2/24/2014	11/10/2014	KIPHARMA	970	259
315	MTMAEI09	Glucosé hypertonique 50% 20ML	6/24/2014	3/12/2015	RBC/MPDD	200	261
316	MGEL01	Lactulose solution flacon de 200ml	5/26/2014	2/11/2015	SUN ENTREPRISE	500	261
317	MPBDA02	Aminophylline ampoule 10ml 250mg/10ml	2/24/2014	11/13/2014	PRETEURS DIVERS	20	262
318	MAL12	Bupivacaïne hyperbare flacon 4ml 0,50%	2/4/2014	10/30/2014	PRETEURS DIVERS	80	268
319	MSCIC05	Amlodipine besilate cés 5mg	5/12/2014	2/6/2015	SUN ENTREPRISE	4,980	270
320	MSCIEC01	Captopril comprimé 25 mg	10/24/2013	7/22/2014	RBC/MPDD	27,000	271
321	MNAOEC01	Mannitol 10% flacon 500ml	1/2/2014	10/9/2014	RBC/MPDD	50	280
322	MAPPR03	Metronidazole sirop 100ml 200mg/5ml	7/16/2013	5/8/2014	DIVERSES DONATEURS	29	296
323	MUD01	Finasteride comp 5mg	8/11/2014	6/8/2015	KIPHARMA	300	301
324	MSCD09	Spironolactone comp 50mg	6/27/2014	4/29/2015	RBC/MPDD	2,000	306
325	MAABL31	Ceftazidime vial de 1g	7/31/2014	6/12/2015	RBC/MPDD	400	316
326	MTMCV10	Vitamine B complex injectable	11/21/2013	10/9/2014	RBC/MPDD	500	322
327	MOD07	Tetracycline opht. Pommade 5mg	10/25/2013	9/15/2014	SUN ENTREPRISE	150	325

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
328	MSTOMA18	Ionomère de verre FUJI VII	4/8/2014	3/13/2015	CROWN	5	339
329	MGEAU04	Cimetidine injectable 200mg/2ml	9/13/2013	9/4/2014	SUN ENTREPRISES	3,000	356
330	MSCIEC02	Enalapril comp 5mg	4/9/2014	3/31/2015	SUN ENTREPRISES	1,000	356
331	MTMGR09	Insuline mixte 30/70 100 UI/ml 10 ml	8/28/2013	8/26/2014	KIPHARMA	100	363
332	MAAP06	Diclofenac suppositoire 100 mg	2/4/2014	2/6/2015	SUN ENTREPRISE	1,000	367
333	MAABL24	Ceftriaxone ampoule 1g	7/14/2014	7/20/2015	PRETEURS DIVERS	200	371
334	MTMGR04	Glibenclamide comprimé 5 mg	5/12/2014	6/12/2015	RBC/MPDD	3,000	396
335	MAABL15	Amoxicilline 1000mg + Acide clavulanique 200mg flacon	12/20/2013	2/27/2015	PRETEURS DIVERS	50	434
336	MAL02	Lidocaïne 1% flacon 50ml	10/15/2013	12/24/2014	RBC/MPDD	50	435
337	MSCTC03	Digoxine comprimé 0,25 mg	3/26/2014	6/26/2015	KIPHARMA	500	457
338	MNAE08	Phenobarbital 200mg/ml ampoule 1 ml	12/31/2013	4/24/2015	KIPHARMA	300	479
339	MAAS03	Phloroglucinol (Spasfon) ampoule 40mg/ml	10/15/2013	2/6/2015	SUN ENTREPRISE		479
340	MAP08	Pro-pacetamol inj flacon 1gr	12/19/2013	4/24/2015	KIPHARMA	300	491
341	MNAE12	Midazolam inj 5 mg/5 ml par ampoule	9/11/2013	1/20/2015	SANTE MANTALE PHARMACIE	10	496
342	MSVV02	Vaccins Anti-Rabique ampoule 2,5ui	10/2/2013	2/18/2015	SUN ENTREPRISE	100	504
343	MAL01	Lidocaïne 1% flacon 20ml	7/18/2013	12/23/2014	RBC/MPDD	50	523
344	MGEAD02	Zinc comprimé 20mg	3/31/2014	10/6/2015	KIPHARMA	200	554
345	MSTOMA06	Composite photopolymérisable	7/17/2013	1/28/2015	CROWN	5	560
346	MDDI06	Revelateur pour machine automatique liquide pour 20 L	10/15/2013	4/28/2015	SUN ENTREPRISES	1	560
347	MAABL20	Cefuroxime flacon IM 750mg	11/21/2013	6/12/2015	RBC/MPDD	1,000	568
348	MAA13	Vecuronium bromure 10mg/ml ampoule 1 ml	12/2/2013	6/23/2015	SALLE D'OP M+P+SG	50	568
349	MTMCV03	Thiamine comprimé 50mg	11/7/2013	6/12/2015	RBC/MPDD	3,000	582
350	MAAP03	Ibuprofen sirop 60ml 100mg/5ml	2/11/2014	9/23/2015	RBC/MPDD	200	589
351	MSCD03	Hydrochlorothiazide 50mg (esidrex)	11/6/2013	10/7/2015	RBC/MPDD	20,000	700

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
352	MSTOMA15	Cresophène13ml	8/22/2013	8/26/2015	CROWN	1	734
353	MAP09	Acide acetylsalicylique (Aspirine) comprimé 100 mg	5/15/2015				Replenishment not yet done
354	MAAAS06	Acide fucidique 2%creme tube de 15g	7/17/2014				Replenishment not yet done
355	MAAQ02	Acide Nalidixique comprimé 500 mg	3/16/2015				Replenishment not yet done
356	MAVG06	Acyclovir 5% creme 5g	6/30/2014				Replenishment not yet done
357	MAVG03	Acyclovir opht Pommade 4,5g	5/11/2015				Replenishment not yet done
358	MTMAEI15	Albumine humaine 200mg/ml flacon de 100ml	6/3/2015				Replenishment not yet done
359	MACA02	Alfuzosinn comprimé 10mg	8/11/2014				Replenishment not yet done
360	MRHAGH01	Allopurinol 300mg	11/11/2014				Replenishment not yet done
361	MSTOMA17	Alvogyl 11gr	8/2/2013				Replenishment not yet done
362	MPBDA02	Aminophylline ampoule 10ml 250mg/10ml	8/28/2015				Replenishment not yet done
363	MSCAA02	Amiodarone ces 200 mg	10/13/2014				Replenishment not yet done
364	MAABL14	Amoxicilline +Acide clavulanique comprimé 625 mg	7/15/2015				Replenishment not yet done
365	MAABL32	Amoxicilline 250 mg + dicloxacilline 250 mg gel	1/2/2014				Replenishment not yet done
366	MAABL09	Amoxicilline sirop 100 ml 250mg/5ml	7/29/2014				Replenishment not yet done
367	MAABL08	Amoxicilline sirop 125mg/5ml 100ml	9/28/2015				Replenishment not yet done
368	MAABL41	Amoxicilline+Acide clavulanique 457mg sirop 70ml	5/21/2014				Replenishment not yet done
369	MAABL15	Amoxicilline1000mg +Acide clavulanique 200mg flacon	2/27/2015				Replenishment not yet done

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
370	MAABL12	Ampicilline flacon 500 mg	9/8/2015				Replenishment not yet done
371	MAABL13	Ampicilline flacon 1g	10/5/2015				Replenishment not yet done
372	MAPPR11	Artemisininine 20mg+luméfantrine 120mg (12ces)	5/29/2015				Replenishment not yet done
373	MAPPR13	Artémisinine 20mg+luméfantrine 120mg (24ces)	10/29/2015				Replenishment not yet done
374	MAPPR09	Arthémeter amp. 80 mg/ml	10/15/2013				Replenishment not yet done
375	MPA	Ascoril Expectorant Sirop 100ml	6/3/2015				Replenishment not yet done
376	MSCBB03	Atenolol ampoule 5mg/10ml	6/11/2015				Replenishment not yet done
377	MSCBB02	Atenolol comprimé 100mg	9/17/2015				Replenishment not yet done
378	MAAM06	Azithromycine comprimé 500mg	2/23/2015				Replenishment not yet done
379	MOD16	Bacicoline Collyre	4/30/2015				Replenishment not yet done
380	MAABL04	Benzathine benzyl pénicilline 2.4 MUI flacon	12/5/2013				Replenishment not yet done
381	MDERMA06	Benzoate de benzyl 25% lotion 100ml	11/3/2015				Replenishment not yet done
382	MSTOMA20	Betadine buccale flacon 125 ml 8,5g	11/16/2015				Replenishment not yet done
383	MAL18	Bupivacaine hydrochloride anhydre 10ml	1/27/2014				Replenishment not yet done
384	MAC11	Butorphanol tertrate 1mg/ml	10/15/2013				Replenishment not yet done
385	MAAS06	Butylscopolamine ampoule 20mg	4/10/2015				Replenishment not yet done
386	MAABL33	Cefadroxil (Oracéfal) gellule 500mg	5/28/2015				Replenishment not yet done

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
387	MAABL31	Ceftazidime vial de 1g	7/21/2015				Replenishment not yet done
388	MAABL24	Ceftriaxone ampoule 1g	11/9/2015				Replenishment not yet done
389	MAABL18	Cefuroxime comprimé 250 mg (Zinnat)	10/9/2015				Replenishment not yet done
390	MAABL19	Cefuroxime comprimé 500mg (Zinnat)	7/7/2015				Replenishment not yet done
391	MAABL20	Cefuroxime flacon IM 750mg	7/24/2015				Replenishment not yet done
392	MAA08	Chaux sodée poudre 5kg	1/7/2014				Replenishment not yet done
393	MAACT04	Chloramphenicol 0.5% Collyre	8/18/2014				Replenishment not yet done
394	MAACT03	Chloramphenicol flacon 1 g	10/29/2015				Replenishment not yet done
395	MSTOMA19	Ciment de scellement définitif 45 gr poudre 14 ml liquide	8/2/2013				Replenishment not yet done
396	MGEAU02	Cimetidine comprimé 200mg	4/2/2015				Replenishment not yet done
397	MGEAU03	Cimetidine comprimé 400mg	11/27/2014				Replenishment not yet done
398	MAAQ06	Ciprofloxacin flacon 100ml 2mg/ml	10/5/2015				Replenishment not yet done
399	MAA09	Cisatracurium 20 mg flacon de 10 ml	10/15/2015				Replenishment not yet done
400	MAAM05	Clarithromycine comp 500mg	6/4/2015				Replenishment not yet done
401	MDERMA01	Clobetazole propionate 0.05% creme 25gr	6/4/2015				Replenishment not yet done
402	MDERMA05	Clobetazole propionate 0.05% creme 30gr	7/23/2015				Replenishment not yet done
403	MANTTB20	Clofazimine 50gr	4/29/2015				Replenishment not yet done

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
404	MSCAAC02	Clonidine ampoule 1ml 150 mcg/ml	1/2/2014				Replenishment not yet done
405	MANFON12	Clotrimazole Crème 20 g	11/27/2013				Replenishment not yet done
406	MAABL28	Cloxacilline flacon IM/IV 500mg	9/10/2015				Replenishment not yet done
407	MAABL27	Cloxacilline sirop 60ml 125 mg/5ml	2/27/2015				Replenishment not yet done
408	MSTOMA05	Composite Auto etching/bonding pâte 14g	4/8/2014				Replenishment not yet done
409	MSTOMA15	Cresophène13ml	9/3/2015				Replenishment not yet done
410	MOCAANC01	Cromoglicate 2% gouttes oculaires	11/10/2015				Replenishment not yet done
411	MACAA03	Cyclophosphamide flacon 1gr injectable	8/5/2015				Replenishment not yet done
412	MIAID06	Dexamethasone 4mg/ml 2ml	10/9/2015				Replenishment not yet done
413	MAAP07	Diclofenac amp 75mg/3ml	10/5/2015				Replenishment not yet done
414	MHHG03	Dicynone comp de 250mg	11/14/2014				Replenishment not yet done
415	MHHG02	Dicynone injectable (etamsylate)	9/2/2015				Replenishment not yet done
416	MSCTC03	Digoxine comprimé 0,25 mg	8/18/2015				Replenishment not yet done
417	MGEARG07	Domperidone 10mg	2/23/2015				Replenishment not yet done
418	MGEARG01	Dompéridone suspension 1mg/ml, 200ml	8/11/2014				Replenishment not yet done
419	MAAT01	Doxycycline comprimé 100 mg	6/30/2015				Replenishment not yet done
420	MGOP01	Dydrogesterone (Duphaston) comprimé 10mg	6/2/2015				Replenishment not yet done

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
421	MTMAEI17	Eau pour injection 5ml	10/28/2015				Replenishment not yet done
422	MHAAP06	Enoxaparine 20mg(anti-Xa)	7/3/2015				Replenishment not yet done
423	MSTOMA26	Eugénol 50ml	2/12/2015				Replenishment not yet done
424	MDIVER18	Febrilex	8/18/2015				Replenishment not yet done
425	MHAA01	Fer 100 mg + Acide Folique comprimé 1.5 mg	6/11/2014				Replenishment not yet done
426	MHAA08	Fer 200 mg + Acide Folique comprimé 0.25mg	10/21/2015				Replenishment not yet done
427	MUD01	Finasteride comp 5mg	8/12/2015				Replenishment not yet done
428	MAAF01	Fucidine pommade tube de 15g	7/30/2015				Replenishment not yet done
429	MSCD02	Furosemide ampoule 2ml 20 mg/ml (Lasix)	10/8/2013				Replenishment not yet done
430	MDDI12	Gastrographine 370 mg d'iode/ml flacon 100 ml	9/26/2014				Replenishment not yet done
431	MAAA05	Gentamycine 0.3% Collyre	8/18/2014				Replenishment not yet done
432	MTMGR11	Glimepiride comp 2mg	10/13/2015				Replenishment not yet done
433	MTMGR12	Glimepiride comp 3mg	10/13/2015				Replenishment not yet done
434	MTMGR13	Glimepiride comp 4mg	9/11/2015				Replenishment not yet done
435	MTMAEI14	Glucose hypertonique 25% 100ml	1/2/2014				Replenishment not yet done
436	MTMAEI09	Glucosé hypertonique 50% 20ML	4/14/2015				Replenishment not yet done
437	MTMAEI18	Glucosé hypertonique 50% 25ml	10/12/2015				Replenishment not yet done

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
438	MTMAEI13	Glucosé hypertonique 50% flacon 100 ml	10/20/2014				Replenishment not yet done
439	MANFON04	Griseofulvine comprimé 500 mg	6/30/2015				Replenishment not yet done
440	MHAAP02	Heparine inj 5000 UI/ml flacon 5 ml	9/21/2015				Replenishment not yet done
441	MSCAAC06	Hydralazine comp de 25 mg	3/31/2014				Replenishment not yet done
442	MAAP01	Ibuprofen comprimé 200 mg	11/16/2015				Replenishment not yet done
443	MAAP12	Ibuprofen sirop 100ml 100mg/5ml	7/14/2015				Replenishment not yet done
444	MAABL42	Imipenem+Cilastatin 500mg	4/15/2015				Replenishment not yet done
445	MRNEP02	Intravenous fat emulsion 20% flac de 500ml	11/10/2015				Replenishment not yet done
446	MSTOMA18	Ionomère de verre FUJI VII	8/24/2015				Replenishment not yet done
447	MDDI09	Iopamidol 300 flacon de 50 ml	12/31/2013				Replenishment not yet done
448	MAG10	Isoflurane liquid for inhalation,250ml	2/9/2015				Replenishment not yet done
449	MANFON03	Ketoconazole comprimé 200 mg	8/4/2015				Replenishment not yet done
450	MAL01	Lidocaïne 1% flacon 20ml	7/20/2015				Replenishment not yet done
451	MAL02	Lidocaïne 1% flacon 50ml	12/29/2014				Replenishment not yet done
452	MAL03	Lidocaïne 2% flacon 20ml sans methylparaben	7/3/2015				Replenishment not yet done
453	MAL17	Lidocaïne 2% flacon 30ml sans methylparaben	9/25/2014				Replenishment not yet done
454	MAL04	Lidocaïne 2% flacon 50ml free of methylparaben	11/10/2015				Replenishment not yet done

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
455	MAL05	Lidocaïne 2% gel visqueuse 30 ml	5/2/2014				Replenishment not yet done
456	MAL20	Lidocaine inj2%flacon 30ml avec methylparaben	7/31/2015				Replenishment not yet done
457	MIAAL14	Loratadine 10mg	5/25/2015				Replenishment not yet done
458	MSCD08	Losartan 50mg comp secable	11/16/2015				Replenishment not yet done
459	MSCD10	Losartan 50mg+Hydrochlorothiazide 12.5mg tab	5/7/2015				Replenishment not yet done
460	MNAOEC01	Mannitol 10% flacon 500ml	11/10/2015				Replenishment not yet done
461	MNAOEC	Mannitol 20% flacon 250 ml	3/31/2014				Replenishment not yet done
462	MNAOEC02	Mannitol 20% flacon 500 ml	5/20/2014				Replenishment not yet done
463	MOD14	Maxidrol collyre	10/1/2015				Replenishment not yet done
464	MAPHEL02	Mebendazole comprimé 100 mg	12/11/2014				Replenishment not yet done
465	MTMGR07	Metformine comprimé 850 mg	12/2/2014				Replenishment not yet done
466	MACAM04	Methotraxate inj 25 mg/ml	9/17/2015				Replenishment not yet done
467	MACAM02	Methotraxate inj 50 mg	8/3/2015				Replenishment not yet done
468	MAPPR16	Metronidazole comp 500mg	5/28/2014				Replenishment not yet done
469	MAPPR01	Metronidazole comprimé 250mg	10/21/2015				Replenishment not yet done
470	MAPPR04	Metronidazole Flacon IV, IM 500mg	10/9/2015				Replenishment not yet done
471	MANFON17	Miconazole Ovule 400mg(Gyno-Daktarin)	2/23/2015				Replenishment not yet done

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
472	MANFON21	Miconazole cream 30gr	8/18/2015				Replenishment not yet done
473	MANFON19	Miconazole creme 20gr	8/7/2014				Replenishment not yet done
474	MANFON18	Miconazole creme vaginale 78gr(Gyno-Daktarin)	5/12/2014				Replenishment not yet done
475	MANFON11	Miconazole Nitrate gel orale gel 40g (Daktarin)	8/18/2015				Replenishment not yet done
476	MNAE12	Midazolam inj 5 mg/5 ml par ampoule	4/1/2015				Replenishment not yet done
477	MNAE13	Midazolam inj 5 mg/5 ml par ampoule	2/26/2015				Replenishment not yet done
478	MNAE09	Midazolam inj 5 mg/ml ampoule 3ml	1/30/2014				Replenishment not yet done
479	MTMCV06	Multivitamine comprimé	7/20/2015				Replenishment not yet done
480	MRIT01	Naloxone 0.4mg amp de 1ml	10/12/2015				Replenishment not yet done
481	MOD15	Neomycine+polymyxinB sulfate+bacitracin zinc pde ophtalmique 5g	6/11/2015				Replenishment not yet done
482	MSCAV01	Nitroglycerine ces 150 mcg	2/6/2015				Replenishment not yet done
483	MPSPD01	Olanzapine comp 5mg(zyprexa)	6/12/2014				Replenishment not yet done
484	MGEAEAN01	Ondansetron 2mg inj	10/31/2013				Replenishment not yet done
485	MSTOMA21	Oxyde de zinc poudre 500 g	7/25/2013				Replenishment not yet done
486	MAA03	Pancuronium bromure ampoule 4 mg/2ml	10/28/2015				Replenishment not yet done
487	MNAE06	Phenobarbital 100mg/ml ampoule 2 ml	6/16/2014				Replenishment not yet done
488	MNAE08	Phenobarbital 200mg/ml ampoule 1 ml	8/20/2015				Replenishment not yet done

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
489	MAAS02	Phloroglucinol (Spasfon) comp de 80mg	9/9/2015				Replenishment not yet done
490	MIAAL07	Prométhazine comprimé 25 mg	3/16/2015				Replenishment not yet done
491	MSCBB06	Propranolol ampoule 1mg/ml	8/3/2015				Replenishment not yet done
492	MDDI06	Revelateur pour machine automatique liquide pour 20 L	5/21/2015				Replenishment not yet done
493	MACA01	Rituximab 500mg/50ml inject	12/18/2013				Replenishment not yet done
494	MPBDA12	Salbutamol nebulisation 5mg/ml 1ml	9/25/2015				Replenishment not yet done
495	MPBDA10	Salbutamol nébulisation, solu 2.5mg/2.5ml 1flacon	8/7/2014				Replenishment not yet done
496	MPBDA06	Salbutamol nébulisation, solu 2.5mg/2.5ml boîte de 20	5/25/2015				Replenishment not yet done
497	MSCD05	Spironolactone cés 25mg	11/11/2015				Replenishment not yet done
498	MSCD09	Spironolactone comp 50mg	6/3/2015				Replenishment not yet done
499	MAAS07	Sulfadiazine crème 500 gr	8/13/2013				Replenishment not yet done
500	MEAE01	Tamoxifène comprimé 20mg	10/13/2014				Replenishment not yet done
501	MUD02	Tamsulosine comp 0.4mg	8/11/2014				Replenishment not yet done
502	MTMCV02	Thiamine ampoule 2ml 50mg/ml	12/22/2014				Replenishment not yet done
503	MTMCV12	Thiamine comprimé 100mg	5/28/2014				Replenishment not yet done
504	MAAGP01	Vancomycine vial 500 mg	8/18/2015				Replenishment not yet done
505	MAA13	Vecuronium bromure 10mg/ml ampoule 1 ml	7/3/2015				Replenishment not yet done

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No	Code of the drug	Name of the drug	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
506	MTMCV11	Vitamine B complex comprimé 30mg	12/11/2013				Replenishment not yet done
507	MTMCV10	Vitamine B complex injectable	8/3/2015				Replenishment not yet done
508	MHAAP05	Warfarine 2mg Cp	10/1/2015				Replenishment not yet done
509	MGEAD02	Zinc comprimé 20mg	11/11/2015				Replenishment not yet done

Appendix 7b: Stock out of medical consumables at UTH-K

No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
1	CPLATR04	Bandes plâtrée 20 cm x 2,7-3 m	5/12/2014	5/15/2014	PRETEURS DIVERS	30	3
2	CBANDG15	Jersey 10cm de longueur 25m	6/9/2015	6/12/2015	RBC/MPDD	109	3
3	CPOCHE02	Poches de recueil d'urine à distance pr adulte avec valve de vidange	8/24/2015	8/27/2015		10	3
4	CNRESO02	Polyamide monofilament 1serti aig triangulaire 40mm diam L:75mm	8/13/2013	8/16/2013	RBC/MPDD	1,800	3
5	CRESOR06	Polyglactine 910 3/0 serti aiguille ronde de 20-26mm L:75cm	10/8/2013	10/11/2013	PRETEURS DIVERS	180	3
6	CBANDG23	Sparadrap perforé tissé (10cm x 5m)	10/21/2014	10/24/2014	RBC/MPDD	592	3
7	CBANDG32	Sparadrap tissé (10cm x 5m)	2/14/2014	2/17/2014	PRETEURS DIVERS	100	3
8	CBANDG32	Sparadrap tissé (10cm x 5m)	10/9/2015	10/12/2015	PRETEURS DIVERS	480	3
9	CPLATR04	Bandes plâtrée 20 cm x 2,7-3 m	5/16/2014	5/20/2014	PRETEURS DIVERS	60	4
10	CNRESO02	Polyamide monofilament 1serti aig triangulaire 40mm diam L:75mm	10/26/2015	10/30/2015		18	4
11	CNRESO04	Polyamide monofilament 3/0 serti aiguille triang 40mm L:75 cm	6/16/2014	6/20/2014	PRETEURS DIVERS	180	4
12	CSERAI32	Seringues de 50ml sterile avec 3 pièces	4/17/2014	4/21/2014	RBC/MPDD	400	4
13	CSASPI07	Sonde d'aspiration trachéale oro nasale ch 16	6/24/2014	6/28/2014		10	4

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
14	CSNAGA07	Sondes naso-gastriques ch 18	2/6/2014	2/10/2014		8	4
15	CBANDG23	Sparadrap perforé tissé (10cm x 5m)	5/5/2014	5/9/2014	PRETEURS DIVERS	7	4
16	CBANDG23	Sparadrap perforé tissé (10cm x 5m)	7/31/2015	8/4/2015	PRETEURS DIVERS	160	4
17	CDIVER39	Trousse de Perfusion	12/19/2014	12/23/2014	RBC/MPDD	20,000	4
18	CPLATR03	Bandes plâtrée 15 cm x 2,7-3 m	10/23/2014	10/28/2014	SUN ENTREPRISES	1,030	5
19	CPOCHE02	Poches de recueil d'urine à distance pr adulte avec valve de vidange	8/27/2015	9/1/2015	AFRICA MEDICAL SUPPLIER	3,000	5
20	CSFOLE04	Sonde de Foley à 2 voies ch 14	4/17/2014	4/22/2014	DIVERSES DONATEURS	25	5
21	CPLATR03	Bandes plâtrée 15 cm x 2,7-3 m	10/16/2014	10/22/2014		60	6
22	CSERAI39	Low pressure tube with T connector for CT scan syringe	4/23/2015	4/29/2015	RBC/MPDD	1,250	6
23	CNRESO01	Polyamide monofilament 0 serti aiguille triangulaire 40mm Long75cm	7/29/2014	8/4/2014	RBC/MPDD	2,664	6
24	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de30mm de diamètre L:75	11/19/2014	11/25/2014	PRETEURS DIVERS	72	6
25	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de30mm de diamètre L:75	10/6/2015	10/12/2015		48	6
26	CSASPI05	Sonde d'aspiration traécheale oro nasale ch 12	5/13/2015	5/19/2015	RBC/MPDD	300	6
27	CBANDG21	Sparadrap 2cmx5m	7/31/2015	8/6/2015	PRETEURS DIVERS	60	6
28	CPLATR03	Bandes plâtrée 15 cm x 2,7-3 m	1/30/2015	2/6/2015	AFRICA MEDICAL SUPPLIER	1,440	7
29	CCATHE10	Catheters: n°24G IV	11/6/2014	11/13/2014	PRETEURS DIVERS	200	7
30	CRESOR07	Polyglactin 910 4/0 serti aiguille ronde 20-26 mm L 75 cm	3/5/2014	3/12/2014	RBC/MPDD	336	7
31	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de30mm de diamètre L:75	7/10/2013	7/17/2013	PRETEURS DIVERS	3,648	7
32	CDIVER39	Trousse de Perfusion	11/2/2015	11/9/2015	PRETEURS DIVERS	230	7
33	CSERAI05	Aiguilles hypodermique 21 G	7/22/2014	7/30/2014	PRETEURS DIVERS	2,000	8
34	CCATHE16	Catheter G26	3/6/2014	3/14/2014	PHARMACIE DE DISTRIBUTION N°1	72	8

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
35	CCATHE10	Catheters: n°24G IV	10/23/2014	10/31/2014	PRETEURS DIVERS	500	8
36	CSASPI03	Sonde d' aspiration trachéale oro nasale ch 8	10/30/2014	11/7/2014	PRETEURS DIVERS	20	8
37	CSFOLE08	Sonde de Foley à 2 voies ch 22	12/9/2013	12/17/2013		20	8
38	CPLATR04	Bandes plâtrée 20 cm x 2,7-3 m	1/28/2015	2/6/2015	AFRICA MEDICAL SUPPLIER	180	9
39	CBANDG14	Gaze hydrophile 90cmx91m 1.5 kg	3/4/2014	3/13/2014	RBC/MPDD	4,497	9
40	CCANUL24	Masque de nébulisation pour adulte	4/20/2015	4/29/2015		50	9
41	CNRESO02	Polyamide monofilament 1serti aig triangulaire 40mm diam L:75mm	1/28/2014	2/6/2014	PRETEURS DIVERS	216	9
42	CNRESO02	Polyamide monofilament 1serti aig triangulaire 40mm diam L:75mm	9/3/2014	9/12/2014	PRETEURS DIVERS	72	9
43	CNRESO02	Polyamide monofilament 1serti aig triangulaire 40mm diam L:75mm	4/13/2015	4/22/2015	AFRICA MEDICAL SUPPLIER	2,520	9
44	CNRESO04	Polyamide monofilament 3/0 serti aiguille triang 40mm L:75 cm	3/5/2014	3/14/2014	PRETEURS DIVERS	48	9
45	CNRESO04	Polyamide monofilament 3/0 serti aiguille triang 40mm L:75 cm	5/26/2015	6/4/2015		11	9
46	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de30mm de diamètre L:75	2/26/2014	3/7/2014	PRETEURS DIVERS	60	9
47	CSERAI10	Aiguilles pour Ponction Lombaire 20G	3/9/2015	3/19/2015		5	10
48	CHEMD11	CATHETER NIDLC 20K	9/4/2015	9/14/2015	RBC/MPDD	50	10
49	CHEMD12	CATHETER NTDL 28 K	9/4/2015	9/14/2015	RBC/MPDD	20	10
50	CCATHE15	Cathéter veineux de voie centrale G 22 avec introducteur multilumen	9/29/2014	10/9/2014	FOURNISSEUR DIVERS	1	10
51	CCATHE10	Catheters: n°24G IV	10/13/2014	10/23/2014	PHARMACIE DE DISTRIBUTION N°1	70	10
52	CPOCHE02	Poches de recueil d'urine à distance pr adulte avec valve de vidange	8/4/2015	8/14/2015	PRETEURS DIVERS	250	10
53	CNRESO02	Polyamide monofilament 1serti aig triangulaire 40mm diam L:75mm	1/14/2014	1/24/2014		36	10
54	CPLATR04	Bandes plâtrée 20 cm x 2,7-3 m	4/25/2014	5/6/2014	EMPRUNTEURS DIVERS	120	11

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
55	CCANUL05	Canule de trachéotomie (externe et interne) avec Cuff N°6	6/19/2014	6/30/2014	RBC/MPDD	80	11
56	CNRESO03	Polyamide monofilament 2/0 serti aiguille triangulaire	8/1/2013	8/12/2013	RBC/MPDD	120	11
57	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de 30mm de diamètre L:75	11/7/2014	11/18/2014	PRETEURS DIVERS	60	11
58	CCATHE10	Catheters: n°24G IV	4/24/2015	5/6/2015	PRETEURS DIVERS	200	12
59	CNRESO02	Polyamide monofilament 1 serti aig triangulaire 40mm diam L:75mm	4/10/2014	4/22/2014	DIVERSES DONATEURS	200	12
60	CNRESO02	Polyamide monofilament 1 serti aig triangulaire 40mm diam L:75mm	11/7/2014	11/19/2014	PRETEURS DIVERS	360	12
61	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de 30mm de diamètre L:75	4/10/2015	4/22/2015	AFRICA MEDICAL SUPPLIER	3,672	12
62	CSERAI30	Seringues de 20ml avec 3 pieces	12/11/2014	12/23/2014	RBC/MPDD	2,000	12
63	CSASPI07	Sonde d'aspiration trachéale oro nasale ch 16	4/24/2014	5/6/2014	EMPRUNTEURS DIVERS	200	12
64	CSERAI03	Aiguilles hypodermique 19 G	3/26/2015	4/8/2015	PRETEURS DIVERS	1,500	13
65	CCATHE10	Catheters: n°24G IV	11/14/2014	11/27/2014	PRETEURS DIVERS	1,000	13
66	CSFOLE03	Sonde de Foley à 2 voies ch 12	10/10/2013	10/23/2013	RBC/MPDD	100	13
67	CSERAI15	Aiguilles pour Ponction Lombaire 25G adulte	10/26/2015	11/9/2015	PRETEURS DIVERS	50	14
68	CDIVER48	Électrode ronde adhésive pour ECG (enfant)	6/16/2014	6/30/2014	RBC/MPDD	4,500	14
69	CRESOR06	Polyglactine 910 3/0 serti aiguille ronde de 20-26mm L:75cm	2/26/2014	3/12/2014	RBC/MPDD	3,816	14
70	CRADIO21	Film digital 20X25 (bte de 100pièces) compatible avec Drystar 5300	6/30/2014	7/15/2014	RBC/MPDD	80	15
71	CRADIO22	Film digital 25X30 (bte de 100pièces) compatible avec Drystar 5300	6/30/2014	7/15/2014	RBC/MPDD	10	15
72	CRESOR03	Polyglactin 910 2 serti aiguille ronde 40-45mm L 90cm	9/26/2013	10/11/2013	PRETEURS DIVERS	120	15
73	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de 30mm de diamètre L:75	12/23/2013	1/7/2014	RBC/MPDD	12	15
74	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de 30mm de diamètre L:75	5/5/2014	5/20/2014	PRETEURS DIVERS	384	15

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
75	CPLATR02	Bandes plâtrée 10 cm X 2,7- 3 m	5/6/2014	5/22/2014	DIVERSES DONATEURS	72	16
76	CCATHE03	Cathéter veineux de voie centrale G18 avec introducteur multilumen	12/23/2013	1/8/2014		3	16
77	CNRESO01	Polyamide monofilament 0 serti aiguille triangulaire 40mm Long75cm	6/17/2015	7/3/2015		46	16
78	CNRESO02	Polyamide monofilament 1serti aig triangulaire 40mm diam L:75mm	6/4/2014	6/20/2014	PRETEURS DIVERS	240	16
79	CSFOLE05	Sonde de Foley à 2 voies ch 16	9/23/2014	10/9/2014	RBC/MPDD	1,500	16
80	CSFOLE05	Sonde de Foley à 2 voies ch 16	9/21/2015	10/7/2015	RBC/MPDD	1,800	16
81	CSERAI03	Aiguilles hypodermique 19 G	3/2/2015	3/19/2015		150	17
82	CHEMD11	CATHETER NIDLC 20K	1/26/2015	2/12/2015	PRETEURS DIVERS	3	17
83	CBANDG02	Bande velpeau 10cmx4m	12/5/2014	12/23/2014	RBC/MPDD	8,400	18
84	CCATHE10	Catheters: n°24G IV	7/31/2014	8/18/2014	ABACUS PHARMA	2,700	18
85	CCATHE10	Catheters: n°24G IV	4/2/2015	4/20/2015	PRETEURS DIVERS	100	18
86	CDIVER147	Filtre antibacterien pediatrique	3/19/2015	4/6/2015	RBC/MPDD	200	18
87	CCANUL24	Masque de nébulisation pour adulte	5/25/2015	6/12/2015	RBC/MPDD	75	18
88	CNRESO01	Polyamide monofilament 0 serti aiguille triangulaire 40mm Long75cm	11/4/2013	11/22/2013	RBC/MPDD	120	18
89	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de30mm de diamètre L:75	3/7/2014	3/25/2014	EMPRUNTEURS DIVERS	108	18
90	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de30mm de diamètre L:75	2/16/2015	3/6/2015	RBC/MPDD	240	18
91	CSASPI07	Sonde d'aspiration trachéale oro nasale ch 16	6/30/2014	7/18/2014	RBC/MPDD	1,000	18
92	CSERAI30	Seringues de 20ml avec 3 pieces	7/29/2014	8/18/2014	ABACUS PHARMA	2,000	20
93	CSASPI03	Sonde d' aspiration trachéale oro nasale ch 8	11/7/2014	11/27/2014	PRETEURS DIVERS	200	20
94	CSASPI06	Sonde d'aspiration trachéale oro nasale ch14	4/28/2015	5/19/2015	RBC/MPDD	1,000	21
95	CSANDO05	Sondes endo trachiale n°4mm sans ballonnets	6/12/2015	7/3/2015		8	21
96	CCANUL22	Masque à Oxygène adulte avec sac	12/1/2014	12/23/2014	RBC/MPDD	1,100	22

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
97	CNRESO04	Polyamide monofilament 3/0 serti aiguille triang 40mm L:75 cm	12/17/2013	1/8/2014	PRETEURS DIVERS	72	22
98	CRESOR06	Polyglactine 910 3/0 serti aiguille ronde de 20-26mm L:75cm	8/1/2013	8/23/2013	PRETEURS DIVERS	156	22
99	CSERAI15	Aiguilles pour Ponction Lombaire 25G adulte	8/26/2014	9/18/2014	DUPHAR	1,000	23
100	CSNAGA11	Sonde gastroduodenal ch 12 (salem)	11/27/2013	12/20/2013		27	23
101	CNRESO02	Polyamide monofilament 1serti aig triangulaire 40mm diam L:75mm	3/3/2014	3/27/2014	PRETEURS DIVERS	240	24
102	CSNAGA10	Sonde de gavage ch 8	8/25/2014	9/18/2014	DUPHAR	20	24
103	CBANDG23	Sparadrap perforé tissé (10cm x 5m)	8/25/2015	9/18/2015	PRETEURS DIVERS	240	24
104	CNRESO04	Polyamide monofilament 3/0 serti aiguille triang 40mm L:75 cm	3/28/2014	4/22/2014	DIVERSES DONATEURS	186	25
105	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de 30mm de diamètre L:75	3/28/2014	4/22/2014	DIVERSES DONATEURS	297	25
106	CSASPI06	Sonde d'aspiration trachéale oro nasale ch14	5/19/2014	6/13/2014	PRETEURS DIVERS	29	25
107	CSFOLE02	Sonde de Foley à 2 voies ch 10	3/27/2014	4/21/2014	RBC/MPDD	200	25
108	CSERAI05	Aiguilles hypodermique 21 G	12/24/2014	1/19/2015		100	26
109	CNRESO01	Polyamide monofilament 0 serti aiguille triangulaire 40mm Long75cm	5/22/2014	6/18/2014	FOURNISSEUR DIVERS&PRETEURS DIVERS	192	27
110	CNRESO01	Polyamide monofilament 0 serti aiguille triangulaire 40mm Long75cm	5/21/2015	6/17/2015		48	27
111	CNRESO04	Polyamide monofilament 3/0 serti aiguille triang 40mm L:75 cm	1/10/2014	2/6/2014	PRETEURS DIVERS	132	27
112	CDIVER119	Clamp pour cordon ombilical	11/25/2014	12/23/2014	RBC/MPDD	84	28
113	CNRESO04	Polyamide monofilament 3/0 serti aiguille triang 40mm L:75 cm	11/19/2013	12/17/2013		13	28
114	CNRESO04	Polyamide monofilament 3/0 serti aiguille triang 40mm L:75 cm	4/21/2015	5/19/2015	RBC/MPDD	84	28
115	CNRESO03	Polyamide monofilament 2/0 serti aiguille triangulaire	4/20/2015	5/19/2015	RBC/MPDD	2,400	29
116	CRESOR06	Polyglactine 910 3/0 serti aiguille ronde de 20-26mm L:75cm	9/2/2013	10/1/2013	PRETEURS DIVERS	84	29

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
117	CDIVER119	Clamp pour cordon ombilical	12/29/2014	1/28/2015	CROWN	1,000	30
118	CSASPI08	Sonde d'aspiration trachéale oro nasale ch18	5/13/2015	6/12/2015	RBC/MPDD	400	30
119	CRADIO22	Film digital 25X30 (bte de 100pièces) compatible avec Drystar 5300	9/12/2013	10/15/2013	RBC/MPDD	40	33
120	CNRESO03	Polyamide monofilament 2/0 serti aiguille triangulaire	7/2/2014	8/4/2014	RBC/MPDD	3,228	33
121	CSFOLE08	Sonde de Foley à 2 voies ch 22	5/16/2014	6/18/2014	FOURNISSEUR DIVERS	3	33
122	CSASPI06	Sonde d'aspiration trachéale oro nasale ch14	1/15/2015	2/18/2015	PRETEURS DIVERS	110	34
123	CDIVER49	Electrodes adhésives rondes pour ECG (adulte)	12/23/2013	1/27/2014	RBC/MPDD	880	35
124	CCANUL23	Masque pour nébulisation pédiatrique	5/26/2015	6/30/2015	RBC/MPDD	380	35
125	CNRESO02	Polyamide monofilament 1serti aig triangulaire 40mm diam L:75mm	6/30/2014	8/4/2014	RBC/MPDD	240	35
126	CNRESO04	Polyamide monofilament 3/0 serti aiguille triang 40mm L:75 cm	6/30/2014	8/4/2014	RBC/MPDD	1,296	35
127	CBANDG02	Bande velpeau 10cmx4m	11/21/2013	12/27/2013	RBC/MPDD	3,600	36
128	CRADIO21	Film digital 20X25 (bte de 100pièces) compatible avec Drystar 5300	5/7/2015	6/12/2015	RBC/MPDD	5	36
129	CNRESO02	Polyamide monofilament 1serti aig triangulaire 40mm diam L:75mm	4/28/2014	6/3/2014	PRETEURS DIVERS	84	36
130	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de30mm de diamètre L:75	10/2/2014	11/7/2014	PRETEURS DIVERS	36	36
131	CSNAGA05	Sondes naso-gastriques ch 14	1/20/2015	2/25/2015	RBC/MPDD	207	36
132	CRADIO24	Film digital 35X43 (bte de 100pièces) compatible avec Drystar 5300	2/4/2015	3/13/2015	CROWN	95	37
133	CNRESO02	Polyamide monofilament 1serti aig triangulaire 40mm diam L:75mm	9/30/2014	11/7/2014	PRETEURS DIVERS	24	38
134	CCATHE03	Cathéter veineux de voie centrale G18 avec introducteur multilumen	3/6/2014	4/14/2014	RBC/MPDD	10	39
135	CNRESO02	Polyamide monofilament 1serti aig triangulaire 40mm diam L:75mm	12/11/2014	1/20/2015	PRETEURS DIVERS	120	40
136	CCATHE10	Catheters: n°24G IV	5/7/2015	6/17/2015	CROWN	8,000	41
137	CSFOLE01	Sonde de Foley à 2 voies ch 8	9/12/2013	10/23/2013	RBC/MPDD	200	41

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
138	CSANDO11	Sondes endo trachiale n°7mm avec ballonnets	8/27/2015	10/7/2015	RBC/MPDD	550	41
139	CCATHE03	Cathéter veineux de voie centrale G18 avec introducteur multilumen	7/16/2015	8/27/2015		2	42
140	CCATHE10	Catheters: n°24G IV	12/8/2014	1/19/2015	PRETEURS DIVERS	200	42
141	CBANDG21	Sparadrap 2cmx5m	7/24/2014	9/4/2014	PRETEURS DIVERS	60	42
142	CSASPI05	Sonde d'aspiration traécheale oro nasale ch 12	10/29/2013	12/11/2013	RBC/MPDD	2,000	43
143	CSTOMA02	Films retroalveolaire 4cm/3cm (bte de 150 pces)	8/31/2015	10/14/2015	CROWN	2	44
144	CSANDO05	Sondes endo trachiale n°4mm sans ballonnets	4/28/2015	6/12/2015		21	45
145	CGANTS06	Gants chirurgicaux stériles n°7,5	3/5/2014	4/21/2014	RBC/MPDD	37,500	47
146	CRESOR07	Polyglactin 910 4/0 serti aiguille ronde 20-26 mm L 75 cm	11/21/2013	1/7/2014	RBC/MPDD	84	47
147	CSFOLE09	Sonde de Foley à 2 voies ch 24	10/29/2013	12/17/2013		16	49
148	CSASPI03	Sonde d'aspiration trachéale oro nasale ch 8	6/30/2014	8/19/2014	DUPHAR	800	50
149	CSNAGA10	Sonde de gavage ch 8	10/6/2014	11/26/2014	KIPHARMA	500	51
150	CSASPI06	Sonde d'aspiration trachéale oro nasale ch14	6/27/2014	8/19/2014	DUPHAR	500	53
151	CSANDO02	Sonde endo-trachéale 2.5mm sans ballonnet	7/22/2013	9/13/2013	RBC/MPDD	100	53
152	CSANDO01	Sonde endo-trachéale 2mm sans ballonnet	7/22/2013	9/13/2013	RBC/MPDD	50	53
153	CBANDG15	Jersey 5cm de longueur 25m	4/25/2014	6/18/2014	FOURNISSEUR DIVERS	3	54
154	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de30mm de diamètre L:75	11/27/2014	1/20/2015	PRETEURS DIVERS	108	54
155	CSASPI02	Sondes d'aspiration trachéale oro-nasale ch 6	6/26/2014	8/19/2014	DUPHAR	100	54
156	CPLATR02	Bandes plâtrée 10 cm X 2,7- 3 m	2/18/2014	4/16/2014	DIVERSES DONATEURS	12	57
157	CSASPI05	Sonde d'aspiration traécheale oro nasale ch 12	11/24/2014	1/20/2015	RBC/MPDD	700	57
158	CSNAGA05	Sondes naso-gastriques ch 14	10/27/2014	12/23/2014	RBC/MPDD	200	57
159	CSFOLE08	Sonde de Foley à 2 voies ch 22	6/20/2014	8/18/2014	ABACUS PHARMA	100	59
160	CDIVER29	Filtre antibacterien pour adulte	2/5/2015	4/6/2015	RBC/MPDD	350	60
161	CSANDO06	Sondes endo trachiale n°4,5mm sans ballonnets	4/13/2015	6/12/2015		10	60

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
162	CNRESO01	Polyamide monofilament 0 serti aiguille triangulaire 40mm Long75cm	8/1/2013	10/1/2013	PRETEURS DIVERS	120	61
163	CCANUL18	Canule trachéalé type Guedel pour adulte n°5	8/6/2015	10/7/2015	RBC/MPDD	50	62
164	CGANTS11	Gants chirurgicaux steriles n°9	11/12/2013	1/14/2014		40	63
165	CSERAI33	Seringues de Janet 60ml	1/2/2015	3/6/2015	RBC/MPDD	1,000	63
166	CSASPI08	Sonde d'aspiration trachéale oro nasale ch18	9/23/2013	11/25/2013		16	63
167	CBANDG21	Sparadrap 2cmx5m	2/18/2014	4/22/2014	DIVERSES DONATEURS	21	63
168	CRESOR06	Polyglactine 910 3/0 serti aiguille ronde de 20-26mm L:75cm	11/4/2013	1/7/2014	RBC/MPDD	240	64
169	CDREDO08	Drain de Kehr 3mm	3/24/2015	5/29/2015		1	66
170	CRESOR01	Polyglactine 910 0 serti aiguille ronde de 37mm Long du fils:75cm	6/30/2014	9/4/2014	SUN ENTREPRISE	1,200	66
171	CGANTS03	Gants chirurgicaux stériles n° 6	8/13/2013	10/22/2013	DIVERSES DONATEURS	41	70
172	CSERAI26	Seringues de 2ml + aiguilles	7/20/2015	9/28/2015	EMPRUNTEURS DIVERS	800	70
173	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de30mm de diamètre L:75	6/30/2014	9/12/2014	PRETEURS DIVERS	612	74
174	CRADIO21	Film digital 20X25 (bte de 100pièces) compatible avec Drystar 5300	6/12/2015	8/27/2015	RBC/MPDD	55	76
175	CRADIO22	Film digital 25X30 (bte de 100pièces) compatible avec Drystar 5300	6/12/2015	8/27/2015	RBC/MPDD	100	76
176	CRADIO23	Film digital 35X35 (bte de 100pièces) compatible avec Drystar 5300	6/12/2015	8/27/2015	RBC/MPDD	95	76
177	CSASPI02	Sondes d'aspiration trachéale oro-nasale ch 6	9/11/2014	11/27/2014	PRETEURS DIVERS	100	77
178	CNRESO01	Polyamide monofilament 0 serti aiguille triangulaire 40mm Long75cm	7/3/2015	9/23/2015	RBC/MPDD	840	82
179	CPLATR03	Bandes plâtrée 15 cm x 2,7-3 m	11/5/2014	1/27/2015	AFRICA MEDICAL SUPPLIER	288	83
180	CPLATR04	Bandes plâtrée 20 cm x 2,7-3 m	2/23/2015	5/19/2015	RBC/MPDD	1,200	85
181	CSASPI07	Sonde d'aspiration trachéale oro nasale ch 16	11/24/2014	2/18/2015	PRETEURS DIVERS	75	86

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
182	CHEMD09	CATHETER NIDLS20K	2/13/2015	5/14/2015	PRETEURS DIVERS	2	90
183	CGANTS12	Gants pour examen (large)	5/13/2014	8/11/2014	PRETEURS DIVERS	10,000	90
184	CRESOR08	Polyglactine 910 6/0 serti aiguille ronde 1/2 cercle	9/22/2014	12/23/2014	RBC/MPDD	36	92
185	CBANDG04	Bande velpeau 20cmx4m	3/13/2014	6/18/2014	FOURNISSEUR DIVERS	12	97
186	CDIVER49	Electrodes adhésives rondes pour ECG (adulte)	2/12/2014	5/20/2014	PRETEURS DIVERS	100	97
187	CRESOR06	Polyglactine 910 3/0 serti aiguille ronde de 20-26mm L:75cm	10/2/2014	1/7/2015	AFRICA MEDICAL SUPPLIER	180	97
188	CRADIO22	Film digital 25X30 (bte de 100pièces) compatible avec Drystar 5300	3/2/2015	6/12/2015	RBC/MPDD	5	102
189	CHEMD09	CATHETER NIDLS20K	10/30/2014	2/12/2015	PRETEURS DIVERS	3	105
190	CRESOR01	Polyglactine 910 0 serti aiguille ronde de 37mm Long du fils:75cm	1/7/2014	4/22/2014	DIVERSES DONATEURS	223	105
191	CSFOLE13	Sonde vésicale à 3 voies ch 22	3/5/2014	6/18/2014	FOURNISSEUR DIVERS	3	105
192	CHEMD09	CATHETER NIDLS20K	5/14/2015	8/28/2015	PRETEURS DIVERS	2	106
193	CBANDG13	Cire à os pour hemostase des os pièce	2/23/2015	6/12/2015	RBC/MPDD	120	109
194	CNRESO04	Polyamide monofilament 3/0 serti aiguille triang 40mm L:75 cm	6/4/2015	9/23/2015	RBC/MPDD	120	111
195	CPLATR03	Bandes plâtrée 15 cm x 2,7-3 m	5/22/2014	9/11/2014	SUN ENTREPRISES	2,570	112
196	CGANTS11	Gants chirurgicaux steriles n°9	7/23/2013	11/12/2013	PHARMACIE DE DISTRIBUTION N°1	32	112
197	CHEMD12	CATHETER NTDL 28 K	5/6/2015	8/28/2015	PRETEURS DIVERS	1	114
198	CCATHE08	Catheters: n°20G IV	12/23/2013	4/21/2014	RBC/MPDD	7,000	119
199	CBANDG21	Sparadrap 2cmx5m	12/23/2013	4/22/2014	DIVERSES DONATEURS	16	120
200	CSFOLE33	Sonde masculine externe medium 30 mm penelix	9/29/2014	1/28/2015	CROWN	100	121
201	CCANUL18	Canule trachéalé type Guedel pour adulte n°5	12/1/2014	4/6/2015	RBC/MPDD	40	126
202	CDIVER128	Hydrocephalus shunt system high pressure	5/20/2015	9/23/2015	RBC/MPDD	10	126
203	CSFOLE08	Sonde de Foley à 2 voies ch 22	12/17/2013	4/22/2014	DIVERSES DONATEURS	19	126

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
204	CSFOLE09	Sonde de Foley à 2 voies ch 24	12/17/2013	4/22/2014	DIVERSES DONATEURS	9	126
205	CRESOR03	Polyglactin 910 2 serti aiguille ronde 40-45mm L 90cm	11/4/2013	3/12/2014	RBC/MPDD	396	128
206	CSFOLE07	Sonde de Foley à 2 voies ch 20	3/12/2014	7/18/2014	RBC/MPDD	798	128
207	CRADIO23	Film digital 35X35 (bte de 100pièces) compatible avec Drystar 5300	3/6/2014	7/15/2014	RBC/MPDD	85	131
208	CPLATR02	Bandes plâtrée 10 cm X 2,7- 3 m	1/28/2015	6/11/2015	AFRICA MEDICAL SUPPLIER	1,531	134
209	CNRESO01	Polyamide monofilament 0 serti aiguille triangulaire 40mm Long75cm	12/9/2013	4/22/2014	DIVERSES DONATEURS	215	134
210	CDIVER40	Trousse de Perfusion pédiatrique avec débimètre	4/23/2015	9/7/2015	SUN ENTREPRISES	145	137
211	CSTOMA61	Matrice dentaire pour composite	4/3/2014	8/19/2014	DUPHAR	24	138
212	CRADIO21	Film digital 20X25 (bte de 100pièces) compatible avec Drystar 5300	2/6/2014	6/30/2014	RBC/MPDD	5	144
213	CSASPI07	Sonde d'aspiration trachéale oro nasale ch 16	2/26/2015	7/20/2015	PRETEURS DIVERS	100	144
214	CGANTS03	Gants chirurgicaux stériles n° 6	11/11/2014	4/6/2015	RBC/MPDD	300	146
215	CPLATR04	Bandes plâtrée 20 cm x 2,7-3 m	11/19/2013	4/16/2014	DIVERSES DONATEURS	77	148
216	CDIVER38	Biopsypunch 5 mm	11/26/2014	4/24/2015	KIPHARMA	20	149
217	CDIVER136	Biopypunch 6mm	11/26/2014	4/24/2015	KIPHARMA	80	149
218	CCANUL23	Masque pour nébulisation pédiatrique	6/16/2014	11/14/2014	RBC/MPDD	500	151
219	CCANUL23	Masque pour nébulisation pédiatrique	12/11/2014	5/19/2015	RBC/MPDD	288	159
220	CGANTS13	Gant pour examen 7.5 sans poudre	1/2/2015	6/12/2015	RBC/MPDD	20,000	161
221	CCANUL21	Masque à Oxygène pédiatrique avec sac	12/11/2014	5/26/2015	AFRICA MEDICAL SUPPLIER	200	166
222	CRADIO22	Film digital 25X30 (bte de 100pièces) compatible avec Drystar 5300	1/14/2014	6/30/2014	RBC/MPDD	5	167
223	CRESOR07	Polyglactin 910 4/0 serti aiguille ronde 20-26 mm L 75 cm	11/3/2014	4/22/2015	AFRICA MEDICAL SUPPLIER	360	170
224	CSASPI04	Sonde d' aspiration trachéale oro nasale ch 10	8/26/2014	2/25/2015	AFRICA MEDICAL SUPPLIER	400	183

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
225	CCATHE14	Robinet à 3 voies	12/5/2014	6/12/2015	RBC/MPDD	500	189
226	CSASPI08	Sonde d'aspiration trachéale oro nasale ch18	12/19/2013	6/28/2014		13	191
227	CPOCHE04	Sacs de colostomie adulte	7/31/2014	2/9/2015	SUN ENTREPRISES	434	193
228	CSNAGA10	Sonde de gavage ch 8	10/10/2013	4/21/2014	RBC/MPDD	200	193
229	CCANUL06	Canule de trachéotomie (interne et externe) avec Cuff N° 7	12/18/2013	6/30/2014	RBC/MPDD	20	194
230	CHEMD11	CATHETER NIDLC 20K	2/13/2015	8/28/2015	PRETEURS DIVERS	2	196
231	CRADIO23	Film digital 35X35 (bte de 100pièces) compatible avec Drystar 5300	11/27/2014	6/12/2015	RBC/MPDD	1	197
232	CSNAGA07	Sondes naso-gastriques ch 18	8/21/2014	3/12/2015	RBC/MPDD	624	203
233	CSERAI35	Seringue de 200ml pour CT scan dual head CT-syringue	9/9/2014	4/6/2015	RBC/MPDD	200	209
234	CSERAI03	Aiguilles hypodermique 19 G	6/30/2014	1/26/2015	DIVERSES DONATEURS	10,000	210
235	CHEMD10	CATHETER NIDLC15 K	2/12/2015	9/14/2015	RBC/MPDD	50	214
236	CBANDG03	Bande velpeau 15cmx4m	5/5/2014	12/12/2014	PHILLIPS PHARMA	40,320	221
237	CDIVER40	Trousse de Perfusion pédiatrique avec débitmètre	6/27/2014	2/9/2015	SUN ENTREPRISES	145	227
238	CDIVER48	Électrode ronde adhésive pour ECG (enfant)	10/2/2013	5/20/2014	PRETEURS DIVERS	100	230
239	CSFOLE09	Sonde de Foley à 2 voies ch 24	5/22/2014	1/7/2015	AFRICA MEDICAL SUPPLIER	30	230
240	CBANDG18	Jersey 15cm de longueur 25m	11/7/2013	6/30/2014	RBC/MPDD	35	235
241	CNRESO10	Polyamide monofilament 5/0 serti aiguille triang	10/23/2013	6/18/2014	FOURNISSEUR DIVERS	24	238
242	CSASPI08	Sonde d'aspiration trachéale oro nasale ch18	7/2/2014	2/25/2015	RBC/MPDD	200	238
243	CPLATR02	Bandes plâtrée 10 cm X 2,7- 3 m	5/22/2014	1/27/2015	AFRICA MEDICAL SUPPLIER	65	250
244	CBANDG21	Sparadrap 2cmx5m	10/23/2014	6/30/2015	RBC/MPDD	210	250
245	CPLATR04	Bandes plâtrée 20 cm x 2,7-3 m	5/21/2014	1/27/2015	AFRICA MEDICAL SUPPLIER	84	251
246	CSERAI07	Aiguilles hypodermique 23 G	11/5/2013	7/18/2014	RBC/MPDD	1,000	255

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
247	CRADIO24	Film digital 35X43 (bte de 100pièces) compatible avec Drystar 5300	5/14/2014	1/28/2015	CROWN	5	259
248	CSTOMA02	Films retroalveolaire 4cm/3cm (bte de 150 pces)	12/5/2013	8/26/2014	AFRICHEM	5	264
249	CCATHE03	Cathéter veineux de voie centrale G18 avec introducteur multilumen	8/25/2014	5/19/2015	RBC/MPDD	30	267
250	CSASPI02	Sondes d'aspiration trachéale oro-nasale ch 6	1/13/2015	10/7/2015	RBC/MPDD	200	267
251	CGANTS11	Gants chirurgicaux steriles n°9	2/19/2014	11/20/2014		43	274
252	CSFOLE13	Sonde vésicale à 3 voies ch 22	6/20/2014	4/6/2015	RBC/MPDD	25	290
253	CDIVER130	Hydrocephalus shunt system low pressure	5/19/2014	4/6/2015	RBC/MPDD	1	322
254	CDIVER129	Hydrocephalus shunt system medium pressure	5/19/2014	4/6/2015	RBC/MPDD	1	322
255	CSFOLE31	Sonde masculine externe large Penelix 36mm	11/19/2014	10/14/2015	CROWN	100	329
256	CSNAGA06	Sondes naso-gastriques ch 16	12/23/2013	11/26/2014	KIPHARMA	500	338
257	CGANTS12	Gants pour examen (large)	8/15/2014	7/31/2015	RBC/MPDD	10,000	350
258	CSTOMA59	Strip à polir	9/26/2013	9/18/2014	DUPHAR	5	357
259	CDIVER142	Surgical patties 1/2 pouce x 2 pouce	11/7/2013	10/31/2014	RBC/MPDD	260	358
260	CBANDG32	Sparadrap tissé (10cm x 5m)	7/29/2014	8/6/2015	PRETEURS DIVERS	480	373
261	CBANDG04	Bande velpeau 20cmx4m	9/22/2014	10/14/2015	PRETEURS DIVERS	948	387
262	CSANDO20	Bougie pour intubation adulte	8/26/2013	10/16/2014	DIVERSES DONATEURS	17	416
263	CSFOLE01	Sonde de Foley à 2 voies ch 8	3/17/2014	5/19/2015	RBC/MPDD	300	428
264	CSERAI25	Seringue de 1ml	6/12/2014	8/27/2015	RBC/MPDD	300	441
265	CSNAGA04	Sondes naso-gastriques ch 12	1/31/2014	6/12/2015	RBC/MPDD	350	497
266	CSTOMA05	Fils métalliques n° 0,4mm de diametre,30m de L pour stomatologie	12/5/2013	6/18/2015	CROWN	3	560
267	CRADIO20	Papier pour échographie	11/14/2013	10/14/2015	CROWN	89	699
268	CSERAI22	Aiguille d'anesthésie loco-régionale (Locoplex) G21 avec connection	9/11/2015				Replenishment not yet done
269	CSERAI37	Aiguille de rachi-anesthesie G25 pour enfant	4/22/2014				Replenishment not yet done
270	CSERAI03	Aiguilles hypodermique 19 G	4/15/2015				Replenishment not yet done

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
271	CSERAI02	Aiguilles hypodermique 18 G	8/2/2013				Replenishment not yet done
272	CSERAI10	Aiguilles pour Ponction Lombaire 20G	4/23/2015				Replenishment not yet done
273	CSERAI13	Aiguilles pour Ponction Lombaire 22G 3.5 adulte, 0.7X 88-90mm	9/25/2015				Replenishment not yet done
274	CBANDG04	Bande velpeau 20cmx4m	10/19/2015				Replenishment not yet done
275	CPLATR03	Bandes plâtrée 15 cm x 2,7-3 m	9/29/2015				Replenishment not yet done
276	CPLATR02	Bandes plâtrée 10 cm X 2,7- 3 m	9/29/2015				Replenishment not yet done
277	CPLATR04	Bandes plâtrée 20 cm x 2,7-3 m	11/6/2015				Replenishment not yet done
278	CDIVER139	Bistouri n° 22	5/22/2014				Replenishment not yet done
279	CDTHOR12	Bouteille de redon (aspiration) plaie	10/20/2014				Replenishment not yet done
280	CSTOMA43	Brossettes	5/5/2014				Replenishment not yet done
281	CCANUL10	Canule de trachéotomie (interne et externe) avec Cuff N° 8,5	10/6/2014				Replenishment not yet done
282	CCANUL30	Canule de trachéotomie (interne et externe) avec Cuff N°3.5	6/26/2015				Replenishment not yet done
283	CCANUL16	Canule trachéale type Guedel pour adulte n°3	4/23/2015				Replenishment not yet done
284	CCANUL17	Canule trachéale type Guedel pour adulte n°4	12/23/2014				Replenishment not yet done
285	CCANUL13	Canule trachéale type Guedel pour bébé n°0	1/14/2015				Replenishment not yet done
286	CCANUL19	Canules à O2 pour enfant (lunette)	10/16/2014				Replenishment not yet done
287	CCATGU05	Catgut Chromé 3/0 serti	9/15/2015				Replenishment not yet done
288	CCATHE16	Catheter G26	3/24/2014				Replenishment not yet done
289	CHEMD09	CATHETER NIDLS20K	9/4/2015				Replenishment not yet done
290	CCATHE15	Cathéter veineux de voie centrale G 22 avec introducteur multilumen	10/17/2014				Replenishment not yet done
291	CCATHE02	Cathéter veineux de voie centrale G16 avec introducteur multilumen	12/29/2014				Replenishment not yet done
292	CCATHE03	Cathéter veineux de voie centrale G18 avec introducteur multilumen	9/25/2015				Replenishment not yet done
293	CCATHE05	Catheters n°14G IV	12/10/2014				Replenishment not yet done

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
294	CBANDG13	Cire à os pour hemostase des os pièce	11/9/2015				Replenishment not yet done
295	CDIVER79	Compresse steriles 10x10	12/19/2014				Replenishment not yet done
296	CDREDO08	Drain de Kehr 3mm	5/29/2015				Replenishment not yet done
297	CDREDO03	Drain de redon ch 10 pvc souple	9/15/2015				Replenishment not yet done
298	CDREDO04	Drain de redon ch 12 pvc souple	9/15/2015				Replenishment not yet done
299	CDREDO06	Drain de redon ch 16	9/15/2015				Replenishment not yet done
300	CDREDO07	Drain de redon ch 18	2/5/2015				Replenishment not yet done
301	CDREDO02	Drain de redon ch 8 pvc souple	7/3/2015				Replenishment not yet done
302	CBANDG08	Elastoplast10 cmx4.5m	5/29/2015				Replenishment not yet done
303	CDIVER107	Electrode pour defibrillateur pour adulte	5/1/2015				Replenishment not yet done
304	CDIVER48	Eléctrode ronde adhésive pour ECG (enfant)	10/1/2015				Replenishment not yet done
305	CSTOMA93	Endo eze Tilos Engine Long	9/11/2015				Replenishment not yet done
306	CBANDG12	Eponge de Gélatine résorbable 7cmx5cmx1cm (spongostan)	10/7/2014				Replenishment not yet done
307	CSTOMA03	Fils métalliques n° 0,5mm de diametre,30m de L pour stomatologie	10/25/2013				Replenishment not yet done
308	CDIVER147	Filtre antibacterien pediatrique	9/28/2015				Replenishment not yet done
309	CDIVER29	Filtre antibacterien pour adulte	10/5/2015				Replenishment not yet done
310	CSTOMA69	Fraise chirurgicale high speed	7/16/2015				Replenishment not yet done
311	CSTOMA12	Fraises pour contre angles cylindriques 010 en carbure de Tg	5/5/2014				Replenishment not yet done
312	CSTOMA14	Fraises pour contre angles sphériques 014 en carbure de tungstène	5/5/2014				Replenishment not yet done
313	CSTOMA20	Fraises pour turbine cylindriques 010 en carbure de Tg	5/5/2014				Replenishment not yet done
314	CSTOMA24	Fraises pour turbine sphériques 018 en carbure de tungstène	5/5/2014				Replenishment not yet done
315	CSTOMA18	Fraises pour turbines cônes renversés 012 en carbure de tungstène	1/29/2015				Replenishment not yet done
316	CSTOMA22	Fraises pour turbines cylindriques 43 carbure de Tg	5/5/2014				Replenishment not yet done

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
317	CGANTS13	Gant pour examen 7.5 sans poudre	9/3/2015				Replenishment not yet done
318	CGANTS11	Gants chirurgicaux steriles n°9	11/21/2014				Replenishment not yet done
319	CSTOMA55	Gutta percha standard 28mm size 15	8/5/2013				Replenishment not yet done
320	CSTOMA56	Gutta percha standard 28mm size 30	10/10/2013				Replenishment not yet done
321	CSTOMA57	Gutta percha standard 28mm size 45	9/2/2014				Replenishment not yet done
322	CIMPOC31	Implant pliable 24.0	11/20/2014				Replenishment not yet done
323	CDIVER175	Infant bonnet 29-36cm	1/26/2015				Replenishment not yet done
324	CBANDG18	Jersey 15cm de longueur 25m	10/26/2015				Replenishment not yet done
325	CBANDG15	Jersey 5cm de longueur 25m	7/17/2014				Replenishment not yet done
326	CSANDO19	Mandrin pediatrique pour intibation 2mm	2/4/2015				Replenishment not yet done
327	CCANUL24	Masque de nébulisation pour adulte	10/1/2015				Replenishment not yet done
328	CDIVER21	Masque laryngée N°4	2/4/2015				Replenishment not yet done
329	CDIVER22	Masque laryngée N°5	6/2/2014				Replenishment not yet done
330	CDIVER16	Masques faciale N°4	9/3/2015				Replenishment not yet done
331	CDIVER17	Masques faciale N°5	1/21/2015				Replenishment not yet done
332	CSTOMA40	Matrices dentaires pour amalgame	5/5/2014				Replenishment not yet done
333	CSERAI23	Miniset pour anesthésie péridurale Kit (Kit epidural)	5/22/2014				Replenishment not yet done
334	CSTOMA89	Navitips Fx tips irrigation Cannula	9/11/2015				Replenishment not yet done
335	CBANDG48	Ouate orthopédique synthétique Taille 2.7m x 15cm	9/29/2014				Replenishment not yet done
336	CENDO01	Pince à Biopsie Gastrique avec branches ovales pour canaux L 180	5/14/2015				Replenishment not yet done
337	CENDO02	Pince à biopsie avec branches ovales pr canaux L280cm	4/28/2015				Replenishment not yet done
338	CPOCHE01	Poches de recueil d'urine adhésive pour enfant fille	10/6/2015				Replenishment not yet done
339	CPOCHE08	Poches de recueil d'urine adhésive pour enfant garçon	11/7/2013				Replenishment not yet done
340	CNRESO02	Polyamide monofilament lserti aig triangulaire 40mm diam L:75mm	10/30/2015				Replenishment not yet done

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
341	CNRESO04	Polyamide monofilament 3/0 serti aiguille triang 40mm L:75 cm	10/8/2015				Replenishment not yet done
342	CNRESO05	Polyamide monofilament 4/0 serti	3/26/2015				Replenishment not yet done
343	CNRESO10	Polyamide monofilament 5/0 serti aiguille triang	11/6/2014				Replenishment not yet done
344	CRESOR12	Polydioxanone serti 0 (PDS)	11/4/2014				Replenishment not yet done
345	CRESOR04	Polyglactine 910 2/0 non-serti	8/20/2015				Replenishment not yet done
346	CRESOR05	Polyglactine 910 2/0 serti aiguille ronde de30mm de diamètre L:75	10/12/2015				Replenishment not yet done
347	CNRESO23	Polypropylene 2 aiguille triangulaire 40mm	6/16/2014				Replenishment not yet done
348	CNRESO07	Prolène vasculaire 3/0 à double aiguille ronde	9/15/2015				Replenishment not yet done
349	CDIVER43	Prolongateurs polyvalents(Extension tube) 2.5x4mm et L70cm	10/27/2014				Replenishment not yet done
350	CDIVER56	Ruban pour autoclave	6/9/2015				Replenishment not yet done
351	CDIVER69	Sachet pour médicaments avec grip grand format	5/27/2015				Replenishment not yet done
352	CSERAI29	Seringues de 10ml+aiguilles avec 3pièces	11/16/2015				Replenishment not yet done
353	CSERAI32	Seringues de 50ml sterile avec 3 pièces	8/6/2015				Replenishment not yet done
354	CSERAI28	Seringues de 5ml+aiguilles	11/11/2015				Replenishment not yet done
355	CSASPI08	Sonde d'aspiration trachéale oro nasale ch18	10/5/2015				Replenishment not yet done
356	CSASPI05	Sonde d'aspiration traécheale oro nasale ch 12	7/3/2015				Replenishment not yet done
357	CSNAGA14	Sonde de gavage ch 10	10/29/2015				Replenishment not yet done
358	CSNAGA08	Sonde de Gavage ch 5	10/29/2015				Replenishment not yet done
359	CSANDO01	Sonde endo-trachéale 2mm sans ballonnet	6/11/2015				Replenishment not yet done
360	CSNAGA12	Sonde gastroduodenal ch 14 (salem)	8/19/2013				Replenishment not yet done
361	CSNAGA13	Sonde gastroduodenal ch 16 (salem)	11/21/2013				Replenishment not yet done
362	CSFOLE32	Sonde masculine externe extra small Penelix 25mm	5/15/2014				Replenishment not yet done
363	CSFOLE27	Sonde masculine externe extra Penelix 41mm	6/12/2015				Replenishment not yet done
364	CSFOLE33	Sonde masculine externe medium 30 mm penelix	7/9/2015				Replenishment not yet done
365	CSFOLE34	Sonde masculine externe small penelix 29mm	12/2/2014				Replenishment not yet done

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No	Code of the drug	Name of medical consumable	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
366	CSFOLE21	Sonde vésicale à 3 voies non armée dufour ch 22	1/2/2015				Replenishment not yet done
367	CSFOLE12	Sonde vésicale à 3 voies ch 20	10/9/2015				Replenishment not yet done
368	CSFOLE13	Sonde vésicale à 3 voies ch 22	10/12/2015				Replenishment not yet done
369	CSFOLE22	Sonde vesicale à 3voies non armée dufour ch24	1/2/2015				Replenishment not yet done
370	CSASPI02	Sondes d'aspiration trachéale oro-nasale ch 6	11/17/2015				Replenishment not yet done
371	CSANDO05	Sondes endo trachiale n°4mm sans ballonnets	7/3/2015				Replenishment not yet done
372	CSANDO12	Sondes endo trachiale n°7,5mm avec ballonnets	10/5/2015				Replenishment not yet done
373	CSANDO15	Sondes endo trachiale n°9mm avec ballonnets	1/31/2014				Replenishment not yet done
374	CSANDO10	Sondes endo trachiale n°6,5mm avec ballonnets	9/28/2015				Replenishment not yet done
375	CSNAGA03	Sondes naso-gastriques ch 10	11/4/2015				Replenishment not yet done
376	CSNAGA04	Sondes naso-gastriques ch 12	9/14/2015				Replenishment not yet done
377	CSNAGA05	Sondes naso-gastriques ch 14	4/13/2015				Replenishment not yet done
378	CBANDG23	Sparadrap perforé tissé (10cm x 5m)		10/9/2014	FOURNISSEUR DIVERS	1	Replenishment not yet done
379	CBANDG23	Sparadrap perforé tissé (10cm x 5m)	10/8/2015				Replenishment not yet done
380	CBANDG47	Sparadrap 10cmX5m ordinaire	10/8/2014				Replenishment not yet done
381	CBANDG21	Sparadrap 2cmx5m	10/13/2014				Replenishment not yet done
382	CBANDG21	Sparadrap 2cmx5m	10/9/2015				Replenishment not yet done
383	CSTOMA59	Strip à polir	1/29/2015				Replenishment not yet done
384	CDIVER142	Surgical patties 1/2 pouce x 2 pouce	12/15/2014				Replenishment not yet done
385	CDIVER135	Trousse utilisable avec systeme de perfusion sous pression	4/21/2014				Replenishment not yet done
386	CDIVER39	Trousse de Perfusion	11/17/2015				Replenishment not yet done
387	CSTOMA44	Turbine pour Galbiati Fox (pièce)	5/5/2014				Replenishment not yet done

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Appendix 7c: Stock out of laboratory reagents at UTH-K

No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
1	LBACS04	"Shigella - set d'antisérums polyvalents S. bodyi, S. flexneri; S. dy	7/3/2014				3
2	LCHIK01	Acide urique	9/2/2014				3
3	LGSANG15	Adapter for sample containers 3112101180	6/17/2014	5/27/2015	RBC/MPDD	271	3
4	LCHIIK55	Additive for Washing water pour humastar 300	6/5/2014				3
5	LCHIK02	ALAT/GPT (Alanine aminotransférase) kit	9/2/2014				6
6	LCHII63	ALB BCG Gen 2. 300tests, cobas c,int 3183688122	4/15/2014	4/27/2015	RBC/MPDD	10	6
7	LCHII63	ALB BCG Gen 2. 300tests, cobas c,int 3183688122	9/21/2015				6
8	LCHII26	ALP IFCC Gen2 L 400 T, cobas c integra 3333701190	10/13/2014	4/27/2015	RBC/MPDD	8	6
9	LDIVD01	Aluminium rouleau (200 m)	10/27/2015				6
10	LBACD04	Amikacine - disques pour antibiogrammes compatibles avec distributeur	4/13/2015	6/12/2015	RBC/MPDD	500	6
11	LBACD05	Amoxicilline 25 µg - disques pour antibiogrammes compatibles avec dis	9/29/2014	10/22/2014	KIPHARMA	500	7
12	LBACD06	Amoxicilline/Ac Clavulanique - disques pour antibiogrammes compatible	9/29/2014	10/22/2014	KIPHARMA	500	7
13	LBACD06	Amoxicilline/Ac Clavulanique - disques pour antibiogrammes compatible	4/8/2015	6/12/2015	RBC/MPDD	750	7
14	LBACD07	Ampicilline 10 µg - disques pour antibiogrammes compatibles avec dist	2/16/2015	6/12/2015	RBC/MPDD	750	8
15	LBACD07	Ampicilline 10 µg - disques pour antibiogrammes compatibles avec dist	8/27/2013	10/22/2014	KIPHARMA	500	9
16	LCHIK04	Amylase kit	9/2/2014				10
17	LSEK08	Anti HBs - Test rapide	7/9/2014	10/22/2014	KIPHARMA	500	10
18	LSEK08	Anti HBs - Test rapide	8/10/2015				11
19	LSEK30	Anti VHC (Hépatite C) Test rapide	2/10/2015	6/12/2015	RBC/MPDD	3,700	13
20	LBACD01	Antigenes solubles de cryptocoques - kit / AVEC PRONASE	9/29/2014	4/6/2015	RBC/MPDD	300	13

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No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
21	LBAC01	Antigenes solubles de cryptocoques - kit / AVEC PRONASE	11/6/2015				14
22	LBACS21	Antiserum vibrio Cholerae 01	4/6/2015				14
23	LBACA01	API 20 A Kit	8/5/2015				14
24	LBACA02	API 20 E Kit -	9/29/2014	6/12/2015	RBC/MPDD	1	14
25	LBACA03	API 20 NE Kit	8/5/2015				14
26	LBACA04	API 20 Strep Kit	9/10/2013				14
27	LBACA06	API STAPH Kit	8/5/2015				15
28	LSERK04	Arthri-test	7/2/2014	8/19/2014	DUPHAR	300	15
29	LSERK04	Arthri-test	11/26/2014	3/13/2015	CROWN	300	15
30	LCHIK05	ASAT/GOT (Aspartate aminotransférase) kit	7/3/2014				15
31	LSERK02	ASLO Latex Kit	4/3/2014	8/19/2014	DUPHAR	300	15
32	LSERK02	ASLO Latex Kit	10/21/2014	5/15/2015	KIPHARMA	600	18
33	LSERK02	ASLO Latex Kit	7/23/2015				18
34	LCHIK06	Auto-Bilirubine- T liquicolor	9/2/2014				20
35	LCHIK54	Autocal pour humastar 300	10/30/2013	12/9/2013	PHARMALAB SARL	60	20
36	LCHIK54	Autocal pour humastar 300	12/12/2013				21
37	LDIVD02	Bac à coloration en verre (lames à l'horizontale)	10/28/2014				22
38	LBACX02	Bandelettes urinaires 10 tests (examen cytochimique des urines)	6/2/2015	8/12/2015	HOPITAL MUHIMA	100	22
39	LPARD01	Batonnet étalement parasitologie (bois)	7/3/2014	4/29/2015	RBC/MPDD	2,000	23
40	LCHII19	BIL-D Gen 2, 350 Tests cobas c, integra 5589061190	3/30/2015	4/27/2015	RBC/MPDD	31	23
41	LCHII19	BIL-D Gen 2, 350 Tests cobas c, integra 5589061190	8/28/2014	3/27/2015	RBC/MPDD	1	23
42	LCHII55	BILD-T DPD Gen.2,250Tests,cobas c, Int.3146022122	4/24/2015	6/16/2015	RBC/MPDD	30	23
43	LCHII55	BILD-T DPD Gen.2,250Tests,cobas c, Int.3146022122	8/28/2014	3/27/2015	RBC/MPDD	2	23

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No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
44	LPRMM02	Bouillon cŒur-cervelle / Brain Heart Infusion / Brain Heart Broth / B	4/8/2015	6/12/2015	RBC/MPDD	3	23
45	LPRMM02	Bouillon cŒur-cervelle / Brain Heart Infusion / Brain Heart Broth / B	6/13/2014	1/29/2015	CROWN	1	23
46	LSERK24	Brucellose kit	10/27/2014	4/29/2015	MNR EAST AFRICA LTD	100	23
47	LSERK24	Brucellose kit	7/3/2015				23
48	LCHII44	C.f.a.s. CK-MB flacon de1 ml 11447394216	4/30/2015				23
49	LCHII18	CA, Gen 2, 300 Tests, cobas integra 5061482190	1/8/2014	3/27/2015	RBC/MPDD	4	24
50	LCHIK07	Calcium Kit	4/24/2014				26
51	LCHII84	Calibrator f.a.s 12x3ml	11/26/2014	3/27/2015	RBC/MPDD	1	27
52	LCHII47	Calibrator f.a.s proteins,flacon de1ml 11355279216	3/31/2015	4/27/2015	RBC/MPDD	5	27
53	LCHII47	Calibrator f.a.s proteins,flacon de1ml 11355279216	1/8/2014	3/27/2015	RBC/MPDD	1	27
54	LCANAP121	Calretinin	6/10/2014				28
55	LCANAP108	CarcinoEmbryonic Ag(CEA)	6/10/2014				28
56	LCANAP109	CD117	6/10/2014				29
57	LCANAP112	CD15	6/10/2014				30
58	LCANAP111	CD20	6/10/2014				33
59	LCANAP114	CD30	6/10/2014				33
60	LCANAP113	CD31	6/10/2014				36
61	LCANAP116	CD34	6/10/2014				36
62	LCANAP120	CDX2	6/10/2014				40
63	LBACD09	Cefotaxime - disques pour antibiogrammes compatibles avec distribute	9/29/2014	10/22/2014	KIPHARMA	500	41
64	LBACD09	Cefotaxime - disques pour antibiogrammes compatibles avec distribute	7/2/2014	9/29/2014	FOURNISSEUR DIVERS	750	42
65	LBACD09	Cefotaxime - disques pour antibiogrammes compatibles avec distribute	2/16/2015	6/12/2015	RBC/MPDD	500	43

PROCUREMENT AND MANAGEMENT OF DRUGS AND MEDICAL SUPPLIES AND ITS IMPACT ON HEALTH CARE AT UNIVERSITY TEACHING HOSPITAL-KIGALI (UTH-K)

No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
66	LBACD09	Cefotaxime - disques pour antibiogrammes compatibles avec distribute	7/1/2015				45
67	LBACD10	Ceftazidime - disques pour antibiogrammes compatibles avec distribute	11/28/2014	6/12/2015	RBC/MPDD	250	46
68	LBACD10	Ceftazidime - disques pour antibiogrammes compatibles avec distribute	8/27/2013	9/29/2014	FOURNISSEUR DIVERS	250	48
69	LBACD10	Ceftazidime - disques pour antibiogrammes compatibles avec distribute	7/1/2015				49
70	LBACD11	Ceftriaxone - disques pour antibiogrammes compatibles avec distribute	9/29/2014	10/22/2014	KIPHARMA	500	51
71	LBACD11	Ceftriaxone - disques pour antibiogrammes compatibles avec distribute	2/16/2015	6/12/2015	RBC/MPDD	750	53
72	LBACD11	Ceftriaxone - disques pour antibiogrammes compatibles avec distribute	2/4/2014	9/29/2014	FOURNISSEUR DIVERS	500	55
73	LBACD12	Cefuroxime - disques pour antibiogrammes compatibles avec distribute	11/25/2013	10/22/2014	KIPHARMA	500	58
74	LHEMS01	Cell clean CL50 (pour Sysmex)	7/25/2013	9/25/2013	RBC/GF	2	59
75	LBACD13	Cephalotine - disques pour antibiogrammes compatibles avec distribute	11/25/2013	10/22/2014	KIPHARMA	500	65
76	LCHII85	Cfas Hb A1c 3x2ml	4/15/2014	3/27/2015	RBC/MPDD	2	65
77	LCHII46	CfaS Poteins U, flacon de 1ml 3121305122	1/8/2014	3/27/2015	RBC/MPDD	2	68
78	LBACD14	Chloramphenicol - disques pour antibiogrammes compatibles avec distri	7/2/2014	10/22/2014	KIPHARMA	500	70
79	LBACD14	Chloramphenicol - disques pour antibiogrammes compatibles avec distri	12/29/2014	6/12/2015	RBC/MPDD	750	71
80	LCHIK08	Chlorures	12/12/2013				76
81	LCHII20	CHOL HiCo Gen 2, 400 tests, cobas c.integra 3039773190	5/23/2014	3/27/2015	RBC/MPDD	5	80
82	LBACD15	Ciprofloxacin - disques pour antibiogrammes compatibles avec distrib	9/29/2014	10/22/2014	KIPHARMA	500	82
83	LBACD15	Ciprofloxacin - disques pour antibiogrammes compatibles avec distrib	11/14/2014	6/12/2015	RBC/MPDD	750	82
84	LCANAP118	CK20	6/10/2014				87

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No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
85	LCANAP119	CK7	6/10/2014				88
86	LCHII30	CKL , 200 Tests , cobas c , Integra 4524977190	10/13/2014	3/27/2015	RBC/MPDD	2	88
87	LCHIK10	CK-MB (Créatinine kinase - fraction MB) kit	9/20/2013				89
88	LCHII36	Cobas Integra ASO ,100 Tests 20750948322	1/8/2014	3/27/2015	RBC/MPDD	1	96
89	LCHII61	Cobas Integra Cleaner, 150 Tests 20764337322	12/29/2014	3/27/2015	RBC/MPDD	2	98
90	LCHII83	Cobas integra FERR, 200 tests	1/21/2015	4/27/2015	RBC/MPDD	4	99
91	LCHII32	Cobas Integra GGT2, 400 Tests 3002721122	3/18/2014	3/27/2015	RBC/MPDD	3	99
92	LCHII73	Cobas Integra ISE solution 1 flac de 17.5ml 2053438122	10/13/2015				99
93	LCHII74	Cobas Integra ISE solution 2 flac de 9.5ml 2053446122	10/13/2015				100
94	LCHII75	Cobas Integra ISE solution 3 flac de 9.5ml 2053454122	10/13/2015				105
95	LCHII33	Cobas Integra LDHI2 acc. IFCC 300 Tests 3004732122	6/10/2014	4/27/2015	RBC/MPDD	7	107
96	LCHII34	Cobas Integra LIPC liquid 200 Tests 3029590322	3/12/2015	3/27/2015	RBC/MPDD	2	112
97	LCHII56	Cobas Integra PHOS2 250 tests 3183793122	3/31/2015	4/27/2015	RBC/MPDD	7	112
98	LCHII58	Cobas Integra TP Gen.2, 300 tests 3183734190	1/8/2014	3/27/2015	RBC/MPDD	8	116
99	LCHII59	Cobas Integra TPUC Gen.3, 150 tests 3333825190	10/13/2014	3/27/2015	RBC/MPDD	5	116
100	LCHII51	Cobas Integra TRIGL 250 Tests 2076715190	1/7/2014				116
101	LPRMM06	Columbia gélose (agar)	3/9/2015				116
102	LHEMHO10	Cortisol	10/27/2014				122
103	LCHIK12	Creatinine cinetique	9/2/2014				125
104	LSERK03	CRP latex (C-reactiv protein)	3/6/2014	3/14/2014	RBC/MPDD	100	126
105	LSERK03	CRP latex (C-reactiv protein)	4/23/2014	8/26/2014	KIPHARMA	2,000	131
106	LCANAP115	Desmin	6/10/2014				131
107	LBACD18	Disques Trimethoprime+Sulfamethoxazole (=cotrimoxazole) - disques pou	8/27/2013	10/22/2014	KIPHARMA	500	138

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No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
108	LBACD18	Disques Trimethoprine+Sulfamethoxazole (=cotrimoxazole) - disques pou	12/29/2014				140
109	LCHII65	Electrode Chloride C/I 3003523001	1/20/2014	5/27/2015	RBC/MPDD	1	143
110	LCHII65	Electrode Chloride C/I 3003523001	6/2/2015				154
111	LCHII80	Electrode de referencev ISE 21029398001	1/20/2014	3/27/2015	RBC/MPDD	2	155
112	LCHII80	Electrode de referencev ISE 21029398001	10/13/2015				155
113	LCHII66	Electrode ISE Potassium 21029355001	1/20/2014	5/27/2015	RBC/MPDD	6	165
114	LCHII66	Electrode ISE Potassium 21029355001	10/13/2015				165
115	LCHII68	Electrode ISE Sodium 21029371001	1/20/2014	5/27/2015	RBC/MPDD	6	165
116	LCHII68	Electrode ISE Sodium 21029371001	10/13/2015				165
117	LCANAP135	Envesion Flex Target Retrieval Solution Low PH	6/10/2014				167
118	LCANAP132	Envesion Flex Trget Reterieval Antigen Solution high PH	6/10/2014				178
119	LCANAP131	Envision Flex DAB +Chromogen	6/10/2014				182
120	LCANAP134	Envision FLEX HEMOTOXYLIN	6/10/2014				182
121	LCANAP130	Envision HRP	6/10/2014				184
122	LCANAP117	Epstein Bar Virus	6/10/2014				189
123	LBACD20	Erythromycine - disques pour antibiogrammes compatibles avec distribu	7/2/2014	10/22/2014	KIPHARMA	500	196
124	LHEMHO03	Estradiol	2/28/2014				196
125	LCHIK13	Fer kit	4/24/2014				234
126	LPARD02	Flacons prélèvement des selles 150ml	5/27/2015				237
127	LGSANG01	Fluid pack S2 3260925184 flacon de 1000ml	7/2/2014	4/27/2015	RBC/MPDD	36	245
128	LHEMHO11	Free PSA	4/30/2015				245
129	LHEMHO08	Free T3	12/2/2014				256
130	LHEMHO07	Free T4	7/22/2013	7/26/2013	PHARMALAB SARL	960	256
131	LHEMHO07	Free T4	3/27/2014				265

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No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
132	LCHII50	FRUC, 150 Tests , cobas c, Integra 4537939190	1/8/2014				299
133	LHEMHO02	FSH	7/23/2013	7/26/2013	PHARMALAB SARL	480	300
134	LHEMHO02	FSH	7/3/2014				301
135	LCHIK14	Gamma GT (gamma glutamyl transférase) kit	1/15/2014				308
136	LPRMM08	Gelose au sang – base	9/29/2014	6/12/2015	RBC/MPDD	1	308
137	LPRMM08	Gelose au sang – base	11/25/2013	9/29/2014	FOURNISSEUR DIVERS	1	308
138	LPRMM08	Gelose au sang – base	7/1/2015				321
139	LPRMM60	Gelose Schaedler	6/8/2015				325
140	LBACD25	Gentamicine - disques pour antibiogrammes compatibles avec distribute	9/29/2014	10/22/2014	KIPHARMA	500	331
141	LBACD25	Gentamicine - disques pour antibiogrammes compatibles avec distribute	12/29/2014	6/12/2015	RBC/MPDD	500	331
142	LBACD25	Gentamicine - disques pour antibiogrammes compatibles avec distribute	8/27/2013	9/29/2014	FOURNISSEUR DIVERS	750	331
143	LBACD25	Gentamicine - disques pour antibiogrammes compatibles avec distribute	7/1/2015				344
144	LCHIK15	Glucose (enzymatique) kit	1/17/2014				346
145	LCHII38	HbA1c TQ Gen . 2 , 150 T , cobas c , Integra 800 4528123190	4/15/2014	3/27/2015	RBC/MPDD	2	346
146	LCHII38	HbA1c TQ Gen . 2 , 150 T , cobas c , Integra 800 4528123190	11/9/2015				355
147	LCHII54	HbA1c TQ heamolyzing rgt,cobas Integra 800, flacon de 10ml 458328190	1/8/2014	3/27/2015	RBC/MPDD	1	355
148	LCHII21	HDL-C Gen.3,200Tests,cobas c, Integra 4399803190	8/5/2014	3/27/2015	RBC/MPDD	3	355
149	LCHIK57	Hemoglobine glycque kit (HbA1c)	6/5/2014				355
150	LDIVD07	Huile à Immersion	7/7/2015	7/31/2015	RBC/MPDD	500	377
151	LDIVD07	Huile à Immersion	11/20/2014	12/23/2014	RBC/MPDD	400	384
152	LDIVD07	Huile à Immersion	2/20/2014	10/10/2014	RBC/MPDD	200	384

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No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
153	LCHIK52	Humatrol N	9/2/2014				398
154	LCHIK53	Humatrol P	8/18/2014				398
155	LCHII69	ISE Calibrator Direkt, flacon de 250ml 20763055122	11/26/2014	5/27/2015	RBC/MPDD	12	398
156	LCHII69	ISE Calibrator Direkt, flacon de 250ml 20763055122	10/13/2015				398
157	LCHII70	ISE Calibrator indirect/Urin, flacon de 250ml 20763063122	10/27/2014	5/27/2015	RBC/MPDD	9	398
158	LCHII70	ISE Calibrator indirect/Urin, flacon de 250ml 20763063122	10/13/2015				421
159	LCHII88	ISE DEPROTEINISER	4/28/2015				421
160	LCHII82	LAMP HALOGEN 12V/100W ASSY	1/16/2015	3/27/2015	RBC/MPDD	6	443
161	LDIVD26	Lancettes UU	9/12/2013	5/15/2014	RBC/MPDD	800	443
162	LDIVD26	Lancettes UU	5/23/2014				443
163	LBACK03	Latex mise en évidence antigènes pneumocoques Kit (péremption 3 mois)	9/20/2013				443
164	LCHIK18	LDL Cholesterol kit	9/20/2013				443
165	LCHII22	LDL-C Gen.2 175 Tests cobas c integra 3038866322	8/5/2014	4/27/2015	RBC/MPDD	15	443
166	LHEMHO01	LH	7/23/2013	7/26/2013	PHARMALAB SARL	288	443
167	LHEMHO01	LH	3/12/2014				443
168	LPRMM21	Mac Conkey Agar AVEC cristal violet	3/9/2015	3/13/2015	CROWN	2	443
169	LPRMM21	Mac Conkey Agar AVEC cristal violet	9/29/2014	10/22/2014	KIPHARMA	2	443
170	LCHIK20	Magnesium kit	4/24/2014				492
171	LCANAP122	Mammaglobin	6/10/2014				492
172	LPRMM23	Melange enrichissement milieu chocolat (Polyvitex)	1/15/2014				492
173	LPRMR26	Methanol	8/5/2015				500
174	LCHII64	MG, 175tests, cobas c integra 2053004322	1/8/2014	3/27/2015	RBC/MPDD	4	501
175	LGSANG05	Micro electrode Cl 3111571180	6/6/2014	5/27/2015	RBC/MPDD	3	618
176	LGSANG05	Micro electrode Cl 3111571180	8/3/2015				Replenishment not yet done

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No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
177	LGSANG06	Micro electrode Na+ 3111598180	6/6/2014	5/27/2015	RBC/MPDD	3	Replenishment not yet done
178	LGSANG06	Micro electrode Na+ 3111598180	10/2/2015				Replenishment not yet done
179	LGSANG08	Micro electrode Ca++ 3111644180	6/6/2014	5/27/2015	RBC/MPDD	3	Replenishment not yet done
180	LGSANG08	Micro electrode Ca++ 3111644180	8/3/2015				Replenishment not yet done
181	LGSANG07	Micro electrode K+ 3111628180	6/6/2014	5/27/2015	RBC/MPDD	3	Replenishment not yet done
182	LGSANG07	Micro electrode K+ 3111628180	8/3/2015				Replenishment not yet done
183	LGSANG09	Micro electrode pCO2 AVL 3111679180	6/6/2014	5/27/2015	RBC/MPDD	3	Replenishment not yet done
184	LGSANG09	Micro electrode pCO2 AVL 3111679180	8/3/2015				Replenishment not yet done
185	LGSANG10	Micro electrode PH AVL 3111717180	6/6/2014	5/27/2015	RBC/MPDD	3	Replenishment not yet done
186	LGSANG12	Micro electrode pO2 AVL 3111695180	6/6/2014	5/27/2015	RBC/MPDD	3	Replenishment not yet done
187	LGSANG12	Micro electrode pO2 AVL 3111695180	8/3/2015				Replenishment not yet done
188	LGSANG11	Micro electrode REF 3111873180	6/6/2014	5/27/2015	RBC/MPDD	3	Replenishment not yet done
189	LGSANG11	Micro electrode REF 3111873180	10/5/2015				Replenishment not yet done
190	LDIVD27	Microcuvettes	1/20/2015				Replenishment not yet done
191	LDIVD20	Micropipette 20 - 200 µL	9/22/2014				Replenishment not yet done
192	LPRMM67	MIU poudre (Mobilité Indole Urée)	6/1/2015				Replenishment not yet done
193	LCANAP123	Mouse Linker	6/10/2014				Replenishment not yet done
194	LPRMM31	Mueller Hinton 2 Agar	10/6/2014	10/10/2014	RBC/MPDD	2	Replenishment not yet done
195	LPRMM31	Mueller Hinton 2 Agar	8/26/2014	9/25/2014	DEPOT PHARMACEUTIQUE LE MEDICAL	1	Replenishment not yet done
196	LPRMM31	Mueller Hinton 2 Agar	4/8/2015	6/12/2015	RBC/MPDD	2	Replenishment not yet done
197	LCANAP110	Neurospesfic Enalase	6/10/2014				Replenishment not yet done
198	LBACD29	Nitrofurantoïne 300 µg - disques pour antibiogrammes compatibles avec	2/16/2015	6/12/2015	RBC/MPDD	250	Replenishment not yet done
199	LBACD29	Nitrofurantoïne 300 µg - disques pour antibiogrammes compatibles avec	7/30/2015				Replenishment not yet done

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No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
200	LBACD30	Norfloxacin - disques pour antibiogrammes compatibles avec distribut	8/27/2013	10/22/2014	KIPHARMA	500	Replenishment not yet done
201	LBACD31	Novobiocine - disques pour diagnostic	9/29/2014	10/22/2014	KIPHARMA	250	Replenishment not yet done
202	LBACD31	Novobiocine - disques pour diagnostic	9/10/2013	9/29/2014	FOURNISSEUR DIVERS	250	Replenishment not yet done
203	LBACD32	Ofloxacin - disques pour antibiogrammes compatibles avec distribute	4/13/2015	6/12/2015	RBC/MPDD	500	Replenishment not yet done
204	LBACD32	Ofloxacin - disques pour antibiogrammes compatibles avec distribute	11/25/2013	10/22/2014	KIPHARMA	500	Replenishment not yet done
205	LGSANG21	OMNI MISS REFERENCE CONTACT	4/15/2014	4/27/2015	RBC/MPDD	2	Replenishment not yet done
206	LBACD35	Oxacillin 1 µg - disques pour antibiogrammes compatibles avec distri	8/27/2013	10/22/2014	KIPHARMA	500	Replenishment not yet done
207	LCANAP107	P53	6/10/2014				Replenishment not yet done
208	LPRMD04	Papier filtre rond mm	5/23/2014	8/19/2014	DUPHAR	400	Replenishment not yet done
209	LPRMD04	Papier filtre rond mm	9/12/2013	5/15/2014	RBC/MPDD	800	Replenishment not yet done
210	LBACD37	Penicillin G 10 µg - disques pour antibiogrammes compatibles avec	7/9/2014	9/29/2014	FOURNISSEUR DIVERS	500	Replenishment not yet done
211	LCANAP125	Peroxidase (Blocking rx)	6/10/2014				Replenishment not yet done
212	LCHIK21	Phosphatase acide	5/8/2014				Replenishment not yet done
213	LCHIK22	Phosphatase alcaline	9/2/2014				Replenishment not yet done
214	LCHIK23	Phosphore kit	4/24/2014				Replenishment not yet done
215	LCBACTE01	Pipettes pasteur ordinaire	7/21/2014	8/18/2014	RBC/GF	6,000	Replenishment not yet done
216	LDIVD11	Pipettes Pasteur verre 230mm cotonnées	10/23/2014	6/12/2015	RBC/MPDD	3,000	Replenishment not yet done
217	LCANAP136	Positive charged slide for Immunohistochemist	11/25/2014	4/29/2015	MNR EAST AFRICA LTD	1,512	Replenishment not yet done
218	LCHII41	PreciControl HBA1c Norm,flacon de1ml 5479207190	1/8/2014	3/27/2015	RBC/MPDD	2	Replenishment not yet done
219	LCHII42	PreciControl HBA1c Path flacon de1ml 5912504190	1/8/2014	3/27/2015	RBC/MPDD	2	Replenishment not yet done
220	LCHII79	Precimat fructosamin 3 x1ml 11098993122	12/2/2014				Replenishment not yet done

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No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
221	LCHII52	Precinorm Fructosamin 11098985122	1/8/2014	3/27/2015	RBC/MPDD	2	Replenishment not yet done
222	LCHII93	PRECINORM PROTEINS	10/30/2015				Replenishment not yet done
223	LCHII53	Precipath Fructosamin 11174118122	1/8/2014				Replenishment not yet done
224	LHEMHO05	Progesterone	8/25/2014				Replenishment not yet done
225	LHEMHO06	Prolactin	7/23/2013	7/26/2013	PHARMALAB SARL	384	Replenishment not yet done
226	LCANAP87	Propanol 1	10/27/2015				Replenishment not yet done
227	LCHIK24	Proteines kit	4/24/2014				Replenishment not yet done
228	LSERK42	Réactif antiglobuline 10 ml (avec spécificité anti-IgG et anti-C3d)	10/30/2015				Replenishment not yet done
229	LSERK38	Réactif de groupage Anti-B(Anti-B monoclonal)	12/24/2014	1/7/2015	FOURNISSEUR DIVERS	48	Replenishment not yet done
230	LSERK38	Réactif de groupage Anti-B(Anti-B monoclonal)	10/23/2014	11/10/2014	FOURNISSEUR DIVERS	8	Replenishment not yet done
231	LSERK38	Réactif de groupage Anti-B(Anti-B monoclonal)	10/1/2014	10/23/2014	KANOMBE MILITARY HOSPITAL	1	Replenishment not yet done
232	LSERK38	Réactif de groupage Anti-B(Anti-B monoclonal)	3/11/2014	6/18/2014	FOURNISSEUR DIVERS	10	Replenishment not yet done
233	LSERK38	Réactif de groupage Anti-B(Anti-B monoclonal)	9/27/2013	2/5/2014	FOURNISSEUR DIVERS	8	Replenishment not yet done
234	LSERK38	Réactif de groupage Anti-B(Anti-B monoclonal)	8/10/2015				Replenishment not yet done
235	LSERK37	Réactif de groupage Anti-A (Anti-A monoclonal)	6/12/2014	6/18/2014	FOURNISSEUR DIVERS	10	Replenishment not yet done
236	LSERK37	Réactif de groupage Anti-A (Anti-A monoclonal)	11/15/2013	2/5/2014	FOURNISSEUR DIVERS	8	Replenishment not yet done
237	LSERK39	Réactif de groupage Anti-AB (Anti-AB monoclonal)	6/12/2014	6/18/2014	FOURNISSEUR DIVERS	10	Replenishment not yet done
238	LSERK39	Réactif de groupage Anti-AB (Anti-AB monoclonal)	9/27/2013	2/5/2014	FOURNISSEUR DIVERS	8	Replenishment not yet done
239	LSERK40	Réactif de groupage Anti-D IgM+IgG (Anti-D, monoclonal IgM+IgG)	11/4/2014	11/10/2014	FOURNISSEUR DIVERS	8	Replenishment not yet done

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No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
240	LSERK40	Réactif de groupage Anti-D IgM+IgG (Anti-D, monoclonal IgM+IgG)	11/21/2013	2/5/2014	FOURNISSEUR DIVERS	8	Replenishment not yet done
241	LSERK40	Réactif de groupage Anti-D IgM+IgG (Anti-D, monoclonal IgM+IgG)	3/11/2014	6/18/2014	FOURNISSEUR DIVERS	10	Replenishment not yet done
242	LCHII71	Reference electrolyte flacon de 250ml 20738085122	5/26/2014				Replenishment not yet done
243	LBACD41	Rifampicine - disques pour antibiogrammes compatibles avec distribut	11/21/2013				Replenishment not yet done
244	LCHII98	Roche Cobas C311 CL Electrode	6/2/2015				Replenishment not yet done
245	LCHII109	Roche Cobas C311 ISE Ref Electrolyte 5*300	8/14/2015	8/20/2015	RBC/GF	3	Replenishment not yet done
246	LCHII107	Roche Cobas C311 ISE Standard High 10*3ML	9/16/2015				Replenishment not yet done
247	LCHII97	Roche Cobas C311 K Electrode	6/2/2015				Replenishment not yet done
248	LCHII99	Roche Cobas C311 NaOH-D(C-PACK)50ML	7/21/2015				Replenishment not yet done
249	LCHII114	Roche cobas C311 SMS C-PACK CASSETTE 50ML	9/10/2015				Replenishment not yet done
250	LCHII102	Roche Cobas C311CAS Hitergent for Cobas	7/10/2015	8/20/2015	RBC/GF	15	Replenishment not yet done
251	LCHII102	Roche Cobas C311CAS Hitergent for Cobas	10/30/2015				Replenishment not yet done
252	LCHII108	Roche Cobas ISE Diluant Gen2 1500ML	6/2/2015				Replenishment not yet done
253	LCANAP127	S100	6/10/2014				Replenishment not yet done
254	LGSANG02	S3FLUID PACKA 3260933184 flacon de 1250ml	7/2/2014	4/29/2015	RBC/MPDD	36	Replenishment not yet done
255	LBACS03	Salmonella - antisérum monovalent O:9 - spécifique S. typhi - (BBL 22	6/5/2014	6/12/2015	RBC/MPDD	3	Replenishment not yet done
256	LBACS01	Salmonella - set d'antisérums polyvalents (OMA & OMB, BBL240)	9/29/2014				Replenishment not yet done
257	LGSANG13	Sensor contact 3260909184	6/1/2015				Replenishment not yet done
258	LBACS16	Serum monovalent anti-S. dysenteriae 1&2	9/20/2013				Replenishment not yet done
259	LBACS18	Serum sonnei fl. 2ml	11/21/2013				Replenishment not yet done
260	LPRMM35	Simmons citrate - citrate de Simons	3/31/2014	9/25/2014	DEPOT PHARMACEUTIQUE LE MEDICAL	1	Replenishment not yet done
261	LBACA16	Standard Mac Farland 0,5	1/23/2015	6/12/2015	RBC/MPDD	1	Replenishment not yet done

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No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
262	LBACA16	Standard Mac Farland 0,5	8/5/2015				Replenishment not yet done
263	LHEMS12	Stromatolyser 4DL 2L	9/17/2015				Replenishment not yet done
264	LHEMS13	Stromatolyser 4DS 42L	10/28/2015				Replenishment not yet done
265	LCANAP124	Substate buffer	6/10/2014				Replenishment not yet done
266	LHEMS14	Sulfolyser 500 ml	9/30/2015				Replenishment not yet done
267	LCANAP126	Synaptophydin	6/10/2014				Replenishment not yet done
268	LBACA17	TDA (Réactif Tryptophane désaminase / diagnostic bactériologique)	9/10/2013				Replenishment not yet done
269	LHEMHO04	Testosterone	5/12/2014				Replenishment not yet done
270	LBACD44	Tetracycline - disques pour antibiogrammes compatibles avec distribut	9/29/2014	10/22/2014	KIPHARMA	500	Replenishment not yet done
271	LBACD44	Tetracycline - disques pour antibiogrammes compatibles avec distribut	8/27/2013	9/29/2014	FOURNISSEUR DIVERS	750	Replenishment not yet done
272	LCDIVER12	Tigettes pour Glucometer SD code free	8/8/2014	1/9/2015	AFRICA MEDICAL SUPPLIER	1,000	Replenishment not yet done
273	LSERK17	Toxo Ig G and IgM	3/27/2014	4/29/2015	MNR EAST AFRICA LTD	500	Replenishment not yet done
274	LSERK18	Toxo Latex Kit	12/29/2014	4/6/2015	RBC/MPDD	1,000	Replenishment not yet done
275	LSERK18	Toxo Latex Kit	5/8/2014	10/22/2014	KIPHARMA	400	Replenishment not yet done
276	LSERK19	TPHA (Treponema pallidum hémagglutination)	9/26/2014	11/20/2014	RBC/GF	200	Replenishment not yet done
277	LCHIK26	Triglycérides kit	9/2/2014				Replenishment not yet done
278	LPRMM42	Tryptocasein soja Broth / Trypticase Soja Broth / Bouillon Trypcase S	10/28/2015				Replenishment not yet done
279	LHEMHO09	TSH	3/12/2014				Replenishment not yet done
280	LDIVT01	Tubes avec fluorure 5ml	1/28/2014	6/12/2015	RBC/MPDD	4,000	Replenishment not yet done
281	LCANAP128	Tyroglobulin	6/10/2014				Replenishment not yet done
282	LCHII25	UA Gen 2 400 Tests, cobas c integra 3183807190	6/6/2014	4/27/2015	RBC/MPDD	4	Replenishment not yet done
283	LCHII24	UREAL, 500 Tests, cobas c, Integra 4460715190	4/24/2015	4/27/2015	RBC/MPDD	71	Replenishment not yet done

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No	Code of the drug	Name of the laboratory reagent	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Duration of stock out in days
284	LCHII24	UREAL,500 Tests, cobas c, Integra 4460715190	6/19/2014	10/23/2014	KANOMBE MILITARY HOSPITAL	1	Replenishment not yet done
285	LCHII24	UREAL,500 Tests, cobas c, Integra 4460715190	10/23/2014	3/27/2015	RBC/MPDD	4	Replenishment not yet done
286	LPRMM48	Uree en solution à 40%	9/29/2014	10/22/2014	KIPHARMA	500	Replenishment not yet done
287	LPRMM48	Uree en solution à 40%	9/10/2013	9/29/2014	FOURNISSEUR DIVERS	100	Replenishment not yet done
288	LCHIK27	Uree liqui UV	9/2/2014	9/29/2014	FOURNISSEUR DIVERS	5	Replenishment not yet done
289	LCHIK27	Uree liqui UV	10/16/2014				Replenishment not yet done
290	LBACD46	Vancomycine 30 µg - disques pour antibiogrammes compatibles avec dist	9/29/2014	10/22/2014	KIPHARMA	500	Replenishment not yet done
291	LPRMM44	VCN - Mélange sélectif vanco+colimycin+nystatin	9/29/2014	11/26/2014	KIPHARMA	24	Replenishment not yet done
292	LSERK20	Waalser-Rose Test	7/2/2014				Replenishment not yet done
293	LCANAP133	Wash Buffer	6/10/2014				Replenishment not yet done
294	LCHIK59	Washing solution concentrate 500ml humastar 80	10/22/2013				Replenishment not yet done
295	LCANAP129	WILMS" Tumor1	6/10/2014				Replenishment not yet done

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Appendix 8a: Stock out for anesthesia at UTH-K

No	Name of the medicine	Date of stock out	Date of replenishment	Supplier	Quantity supplied	Stock out duration in days
1	Bupivacaïne hyperbare flacon 4ml 0,50%	7/29/2013	8/7/2013	RBC/MPDD	20	9
2	Bupivacaïne hyperbare flacon 4ml 0,50%	10/31/2014	11/14/2014	RBC/MPDD	1,000	14
3	Lidocaïne spray 10% flacon 50ml	2/13/2014	3/12/2014	RBC/MPDD	30	27
4	Bupivacaïne flacon 20ml 0,50% sans methylparaben	12/20/2013	1/16/2014	PRETEURS DIVERS	20	27
5	Bupivacaïne hyperbare flacon 4ml 0,50%	12/20/2013	1/16/2014	PRETEURS DIVERS	100	27
6	Lidocaïne 2% +Adrenaline; carp dent amp 1.8ml 2%	2/6/2014	3/31/2014	RBC/MPDD	550	53
7	Lidocaïne 2% +Adrenaline; carp dent amp 1.8ml 2%	4/17/2015	6/17/2015	CROWN	5,000	61
8	Bupivacaïne hyperbare flacon 4ml 0,50%	4/6/2015	6/9/2015	PRETEURS DIVERS	100	64
9	Lidocaïne spray 10% flacon 50ml	6/26/2014	9/4/2014	SUN ENTREPRISES	30	70
10	Bupivacaïne flacon 20ml 0,50% sans methylparaben	7/29/2013	10/17/2013	RBC/MPDD	250	80
11	Bupivacaïne flacon 20ml 0,50% sans methylparaben	6/1/2015	9/9/2015	PRETEURS DIVERS	300	100
12	Lidocaïne 2% +Adrenaline; carp dent amp 1.8ml 2%	4/16/2014	8/19/2014	DUPHAR	1,300	125
13	Lidocaïne spray 10% flacon 50ml	10/11/2013	2/13/2014	PRETEURS DIVERS	2	125
14	Bupivacaïne flacon 20ml 0,50% sans methylparaben	9/29/2014	2/17/2015	PRETEURS DIVERS	210	141
15	Lidocaïne 2% flacon 20ml sans methylparaben	5/27/2014	1/20/2015	RBC/MPDD	1,000	238
16	Lidocaïne 2% flacon 50ml free of methylparaben	11/27/2014	7/31/2015	RBC/MPDD	500	246
17	Bupivacaïne hyperbare flacon 4ml 0,50%	2/4/2014	10/30/2014	PRETEURS DIVERS	80	268
18	Lidocaïne 1% flacon 50ml	10/15/2013	12/24/2014	RBC/MPDD	50	435
19	Lidocaïne 1% flacon 20ml	7/18/2013	12/23/2014	RBC/MPDD	50	523
20	Lidocaïne 2% flacon 50ml free of methylparaben	11/10/2015				Replenishment not yet done
21	Lidocaïne 2% gel visqueuse 30 ml	5/2/2014				Replenishment not yet done
22	Lidocaïne 2% flacon 30ml sans methylparaben	9/25/2014				Replenishment not yet done
23	Bupivacaine hydrochloride anhydre 10ml	1/27/2014				Replenishment not yet done
24	Lidocaïne inj 2% ampoule de 2ml	5/8/2014				Replenishment not yet done

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Appendix 8b: Data of anesthesia operations for July 2013 to June 2015

No	Month	General Anesthesia	Local Anesthesia	Regional Anesthesia	Total
1	Jul-13	243	36	56	335
2	Aug-13	216	20	73	309
3	Sep-13	215	30	66	311
4	Oct-13	224	48	80	352
5	Nov-13	239	49	79	367
6	Dec-13	216	39	58	313
7	Jan-14	269	36	79	384
8	Feb-14	229	36	65	330
9	Mar-14	253	29	61	343
10	Apr-13	262	49	87	398
11	May-13	179	43	93	315
12	Jun-14	200	27	57	284
13	Jul-14	223	20	60	303
14	Aug-14	222	33	96	351
15	Sep-14	245	23	52	320
16	Oct-14	269	69	112	450
17	Nov-14	211	55	75	341
18	Dec-14	278	57	120	455
19	Jan-15	179	54	73	306
20	Feb-15	208	25	99	332
21	Mar-15	240	31	131	402
22	Apr-15	289	58	162	509
23	May-15	279	27	121	427
24	Jun-15	206	49	308	563
	General total				8,800

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Appendix 9: Comparison between the costs incurred by UTH-K and the payment made by patient

	Medical service	Tarif A ²¹	Tarif B ²²	Tarif C ²³	Tarif D ²⁴	Actual costs incurred by UTH-K	% of cost covered by Tarif A	% of cost covered by Tarif B	% of cost covered by Tarif C	% of cost covered by Tarif D
		(A)	(B)	(C)	(D)	(E)	(A*100)/E	(B*100)/E	(C*100)/E	(D*100)/E
No	ACTES INFIRMIERS+ 20%									
1	Simple bandage (Pansement simple)	660	1,3 20	1,650	1,980	2,414	27%	55%	68%	82%
2	Pansement complique	1,320	2,640	3,300	3,960	10,139	13%	26%	33%	39%
3	Complex bandage (Pansement multiple)	2,640	5,280	6,600	7,920	13,590	19%	39%	49%	58%
	MEDECINE INTERNE + 20%									
4	Endoscopie digestive (Gastroskopie, Colonoscopie)	5,544	11,088	13,860	16,632	60,797	9%	18%	23%	27%
	CHIRURGIE + 20%									
5	Amputation de la jambe ou de l'avant bras	12,938	25,875	32,344	38,813	37,584	34%	69%	86%	103%
6	Amputation de la cuisse ou du bras	10,800	31,050	38,813	46,575	36,092	30%	86%	108%	129%
7	Circoncision	5,175	10,350	12,938	15,525	11,645	44%	89%	111%	133%
8	Resection of parasagittal meningioma	18,000	41,400	51,750	62,100	716,470	3%	6%	7%	9%
9	Cystoscopie et biopsie de la vessie	10350	20700	25875	31050	21446	48%	97%	121%	145%
	Gyneco- Obstretique: + 20%									
10	Accouchement eutocique	9,000	18,000	22,500	27,000	30,216	30%	60%	74%	89%
11	Cesarienne	19,800	39,600	49,500	59400	34,128	58%	116%	145%	174%
	LABORATOIRE + 35%									
	HEMATOLOGIE									
12	NFS (Hb, The, GR, GB, MGv Plaquettes, CCMH, TCMH)	2,025	4,050	5,063	6,075	2,809	72%	144%	180%	216%
13	Parasitemie	972	1,944	2,430	2,916	4,150	23%	47%	59%	70%
14	Examens de selles (Coloration Speciale)	972	1,944	2,430	2,916	2,515	39%	77%	97%	116%
	Platre Synthetic									
15	Ablation platre	288	576	720	864	9,522	3%	6%	8%	9%

²¹ Tariff of Mutual Health Insurance Scheme

²² RSSB, MMI, Mutual Health Insurance Scheme for universities and Higher Learning Institutions

²³ Private Insurance, Trading company and others

²⁴ Without cover by any valid insurance

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	Medical service	Tarif A ²¹	Tarif B ²²	Tarif C ²³	Tarif D ²⁴	Actual costs incurred by UTH-K	% of cost covered by Tarif A	% of cost covered by Tarif B	% of cost covered by Tarif C	% of cost covered by Tarif D
		(A)	(B)	(C)	(D)	(E)	(A*100)/E	(B*100)/E	(C*100)/E	(D*100)/E
	RADIOLOGIE: + 20%									
	MEMBRES SUPERIEURS									
16	Doigts (F et P)	3,300	6,600	8,250	173,250	178,380	2%	4%	5%	97%
17	Main (F et P)	3,300	6,600	8,250	173,250	372,333	1%	2%	2%	47%
	CT- SCAN									
18	Brain (With contrast)	45,000	60,000	60,000	72,000	21,392	210%	280%	280%	337%
19	Abdomen (Multiphase with contrast)	60,000	80,000	80,000	96,000	291,350	21%	27%	27%	33%
	STOMATOLOGIE: +20%									
20	Reduction dento- alveolaire et fixation	14,850	29,700	37,125	779,625	30,336	49%	98%	122%	2570%
	Total						733	1,340	1,597	4,474
	Average in %						37 %	67 %	80 %	224 %

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Appendix 10a: Costs of medical services for delivery by Cesarian section

No	Designation	Pieces	Unity price in Frw	Total Price in Frw
1	Compresse ordinaires	40		
2	Chlorexedine	2 litres		
3	Povidone 50ml	1 flacon	589.00	589.00
4	Tetracycline pomade ophtalmique	1 tube		
5	Alcool	200 ml		
6	Rachis anesthesie, loco regionale, peridurale, generale		6,600.00	6,600.00
7	Soins immediat de l'accouchee		450.00	450.00
8	Soins immediat du nne		450.00	450.00
9	Soins du cordon		360.00	360.00
10	Sondage vesicale		990.00	990.00
11	Toilette intime			
12	Surveillance de l'operee			
13	Polyglycolic acid No 1	4	1,106.70	4,426.80
14	Polyglycolic acid No 2/0	3	1,135.80	3,407.40
15	Bistouri No 23	4	55.10	220.40
16	Seringue 10cc	4	47.60	190.42
17	Seringue 5cc	4	31.60	126.40
18	Seringue 2cc	4	29.00	116.00
19	Gants propres	60 pieces	32.70	1,308.00
20	Gants steriles 7 1/2	6	212.50	1,275.00
21	Gants steriles No 8	2	165.60	331.20
22	Gants steriles 7	4	174.80	699.20
23	Catheter G18	1	845.90	845.90
24	Trousse a perfusion	1	135.50	135.50
25	Ringer lactate 500ml	5 flacons	524.40	2,622.00
26	Normale saline 500ml	5 flacons	441.50	2,207.50
27	Sonde vesicale ch16 a 2 voies	1	463.20	463.20
28	Sac a urine	1	264.00	264.00
29	Sonde d'aspiration No 8	1	187.20	187.20
30	Sonde d'aspiration No 16	1	85.20	85.20
31	Ampilicine 500mg	4 flacons	77.40	309.60
32	Eau de dilution	3 flacons	27.00	81.00
33	Ocytocine 10 UI	2 ampoules	54.00	402.48
34	Diclofenac 75mg	2 ampoules	54.00	108.00
35	Aiguille de ponction lombaire No 7	1	857.00	857.00
36	Electrodes adultes	3	151.00	453.00
37	Gants gynecologiques	1	1,057.40	1,057.40

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No	Designation	Pieces	Unity price in Frw	Total Price in Frw
38	Vitamine K	1 ampoule	1,380.00	1,380.00
39	Aiguille G 19	4	15.60	62.40
40	Seringue 1ml	1	25.20	25.20
41	Aiguille hypodermique G 23	1	11.70	11.70
42	Tube endotracheale No 7	1	1,029.60	1,029.60
	Total			34,127.70

Appendix 10b: Costs of medical service for normal delivery

No	Designation	Pieces	Unity price in Frw	Total Price in Frw
1	Compresses ordinaires	30		
2	Chlorexedine	2 liters		
3	Tetracycline Pomade Opthalmique	1 TUBE	151.70	151.70
4	Alcool	200 mL		
5	Sondage vesicale			
6	Touche vaginal			
7	Touche Rectal			
8	Toilette intime			
9	Soins immediat de l'Accouchee		450.00	450.00
10	Soins immediat du ne		450.00	450.00
11	Soins du cordon		360.00	360.00
12	Curage digitale		1,875.00	1,875.00
13	Revision uterine			
14	Compresses bimanuel			
15	Examen au speculum			
16	Soins d'Avortement			
17	Monitoring des BCF Intermittente			
18	Monitoring des BCF continue			
19	Lidocaine	20mL		
20	Suture de l'episiotomie		1,000.00	1,000.00
21	Reparation de la déchirure		14,850.00	14,850.00
22	Anesthesie locale			
23	Hospitalisation	36 hours	990.00	2,970.00
24	Gants propres	40 pieces	32.70	1,308.00
25	Gants steriles 71/2	2	212.50	425.00
26	Gants gynecologiques	2	1,057.40	2,114.80
27	Seringue 10cc	2	47.60	95.20
28	Seringue 5cc	2	31.60	63.20
29	Ringer lachate 500mL	1 flacon	524.40	524.40
30	Ocytocine 10 UI	2 ampoules	201.24	402.48
31	Trousse a perfusion	1	135.50	135.50

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No	Designation	Pieces	Unity price in Frw	Total Price in Frw
32	Caheter G18	1	845.90	845.90
33	Buscopan 20mg	2 ampoules	234.00	468.00
34	Sonde d'aspiration No 8	1	187.20	187.20
35	Catigut chrome No 1	1	111.60	111.60
36	Aiguille G21	4	10.70	10.70
37	Vitamine K	1 ampoule	1,380.00	1,380.00
38	Seringue 1Ml	1	25.20	25.20
39	Aiguille hypodermique G23	1	11.70	11.70
	Price			30,216

Appendix 11: Debtors balances for the last 3 years²⁵

Debtors balances for the year 2014/2015

No	Debtors names	Balance for 2014/2015
1	DISTRICT NYABIHU	61
2	DISTRICT NGORORERO	5,969
3	CIMERWA	6,938
4	PRISON MPANGA	9,554
5	PRISON MIYOVE	12,158
6	PRISON NGOMA	17,757
7	DISTRICT KICUKIRO	26,717
8	RWANDA MILITARY HOSPITAL	42,742
9	PRISON MUSANZE	54,705
10	BK ARV	60,000
11	SONARWA LIFE INSURANCE	60,327
12	MINISANTE	67,950
13	ENTREPRISE MP	94,816
14	STIPPAG	126,078
15	MEK CONSTRUCT LTD	126,213
16	SINELAC	157,702
17	SONARWA GENERAL INSURANCE	159,853
18	PRISON REMERA	191,129
19	WOLD VISION	318,891
20	BK	336,415
21	MUTUELLE DE SANTE ISAE	360,786
22	DISTRICT BURERA	425,058
23	RWANDA DEVELOPMENT BOARD	637,200

²⁵ Debtors having a balance of less than 100,000 Frw were assumed to be immaterial and not considered

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No	Debtors names	Balance for 2014/2015
24	SERENA HOTEL KIGALI	751,440
25	PRISON CENTRALE DE NSINDA	1,080,748
26	ICAP COLUMBIA	1,321,856
27	ENERGY RESSOURCES PETROLEUM LTD	1,495,884
28	RANDIANT INSURANCE CAMPANY	1,680,247
29	RUHSERA RESTAURANT	1,973,085
30	PARTENERS IN HEALTH	2,319,893
31	CORAR	2,666,073
32	BRITAM	3,040,022
33	COGEBANQUE	3,220,144
34	MUTUELLE UNR ETUDIANTS	4,446,122
35	SORAS	4,557,782
36	UAP INSURANCE	6,331,520
37	FARG	7,688,718
38	MILITARY MEDICAL INSURANCE	9,892,461
39	AHA	11,200,102
40	SPCIAL GUARENTEE FUND	38,217,686
41	CLIENTS IMPAYES	46,064,456
42	CTAMS 90%	1,167,483,854
	TOTAL	1,318,731,112

Debtors balances for the year 2013/2014

No	Debtors names	Balance for 2013/2014
1	PRISON NYANZA	241
2	PRISON GICUMBI	249
3	BNR	470
4	PRISON RUBAVU	1,292
5	SONARWA LIFE INSURANCE	1,582
6	CENTRE DE SANTE NYIRANUMA	1,715
7	PRISON HUYE	4,187
8	MXS CLIENT 10%	5,062
9	MAGERWA	6,299
10	PRISON MUSANZE	8,501
11	AVIS	8,660
12	PRISON NGOMA	15,722
13	STIPPAG	16,483
14	MINADEF	27,388
15	DISTRICT BUGESERA	36,615

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No	Debtors names	Balance for 2013/2014
16	PRISON CENTRALE DE NSINDA	38,190
17	UNIPHARMA	40,786
18	SINELAC	46,872
19	PRISON REMERA	93,235
20	ENTREPRISE MP	98,129
21	RWANDA MILITARY HOSPITAL	115,005
22	MUTUELLE DE SANTE ISAE	116,171
23	DISTRICT RURINDO	180,340
24	AGAHOZO SHALOM YOUTH	180,879
25	SONARWA GENERAL INSURANCE	186,779
26	KIPHARMA	189,381
27	INGABIRE CURIE	195,687
28	ENERGY RESSOURCES PETROLEUM LTD	232,607
29	DISTRICT KICUKIRO	319,146
30	ARC	413,700
31	DISTRICT BURERA	425,058
32	DISTRICT DE GAKENKE	461,852
33	MIDIMAR	509,988
34	BK	529,810
35	COGEAR	529,986
36	SERENA HOTEL KIGALI	613,437
37	POLICE NATIONALE	682,871
38	STRAGAG	820,658
39	SFB	914,326
40	KIST	968,551
41	UAP INSURANCE	1,001,855
42	TPIR II	1,031,395
43	BRITAM	1,670,190
44	MUTUELLE UNR PERSONNEL	1,826,776
45	DEBITEUR DIVERS	2,021,857
46	FARG	2,120,258
47	COGEBANQUE	2,575,825
48	CORAR	2,935,828
49	TIG	3,810,164
50	AHA	4,395,687
51	SAMU	4,463,481
52	RANDIANT INSURANCE CAMPANY	6,086,000
53	MINISANTE	6,934,435
54	SPCIAL GUARENTEE FUND	8,535,659

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No	Debtors names	Balance for 2013/2014
55	TVA A RECUPERER	17,363,630
56	CLIENTS IMPAYES	39,121,507
57	RAMA	60,083,066
58	CTAMS 90%	786,239,080
	TOTAL	961,254,603

Debtors balances for the year 2012/2013

No	Debtors names	Balance for 2012/2013
1	PRISON NYAGATARE	253
2	PRISON RUSIZI	856
3	PRISON MUSANZE	1,102
4	MILLENNIUM VILLAGES	1,252
5	MXS CLIENT 10%	1,655
6	PRISON MIYOVE	1,876
7	POLYCLINIQUE FAMILIALE POLYFAM	3,375
8	SINELAC	3,750
9	UNR/SCPS	4,990
10	PRISON MPANGA	5,764
11	MOUNTAIN GORILLA VETERINARY PROJECT	6,750
12	FARG/SCPS	15,963
13	E R F	16,591
14	MMI/SCPS	19,643
15	ASSOCIATION BAMPOREZE	26,195
16	KIPHARMA	28,508
17	DISTRICT RUSIZI	38,036
18	PRISON NGOMA	40,788
19	DISTRICT NYAGATARE	43,273
20	COGEAR	44,778
21	SONARWA LIFE INSURANCE	51,512
22	WE-ACT	72,426
23	STRAGAG	100,042
24	PRISON REMERA	101,141
25	UNIPHARMA	103,028
26	CHUB	112,168
27	MINADEF	116,314
28	EFOGEC	117,762

**PROCUREMENT AND MANAGEMENT OF DRUGS AND MEDICAL SUPPLIES AND
ITS IMPACT ON HEALTH CARE AT UNIVERSITY TEACHING HOSPITAL-KIGALI
(UTH-K)**

No	Debtors names	Balance for 2012/2013
29	PRISON MUHANGA	128,218
30	BK ARV	160,976
31	KHI	167,924
32	TIG	170,256
33	FARG	184,794
34	BMC BIO MEDICAL CENTER	243,000
35	RWANDA MILITARY HOSPITAL	246,692
36	MAGERWA	258,313
37	DISTRICT RURINDO	258,743
38	RANDIANT INSURANCE CAMPANY	261,935
39	PROJET SAN FRANCISCO	287,560
40	AGROTECH	341,336
41	SORAS/SCPS	363,284
42	URWEGO OPPORTUNITY BANK	368,608
43	HOPITAL KIBAGABAGA	406,735
44	RDRG	455,461
45	MUTUELLE UNR ETUDIANTS	609,230
46	ENJOY IN ALL RESTAURANT	880,037
47	CENTRE DE SANTE GITEGA	1,036,800
48	COGEBANQUE	1,175,650
49	POLICE NATIONALE	1,267,144
50	PARTENERS IN HEALTH	1,450,677
51	SORAS	3,489,518
52	RAMA/SCPS	4,589,555
53	MINISANTE	5,070,866
54	ICAP COLUMBIA	5,666,698
55	SPCIAL GUARENTEE FUND	6,265,761
56	MILITARY MEDICAL INSURANCE	6,297,854
57	AHA	9,142,129
58	HOP MUHIMA	11,106,450
59	RRA	11,185,359
60	HOP ROI FAYCAL	14,910,750
61	RAMA	19,535,380
62	CTAMS 90%	200,265,722
	TOTAL	309,329,206