



Improving Storage Conditions through De-Junking at County Health Department Medical Stores in South Sudan

2016



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Systems for Improved Access
to Pharmaceuticals and Services

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About SIAPS

The goal of the Systems for Improved Access to Pharmaceuticals and Services (SIAPS) Program is to assure the availability of quality pharmaceutical products and effective pharmaceutical services to achieve desired health outcomes. Toward this end, the SIAPS results areas include improving governance, building capacity for pharmaceutical management and services, addressing information needed for decision-making in the pharmaceutical sector, strengthening financing strategies and mechanisms to improve access to medicines, and increasing quality pharmaceutical services.

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Key Words

De-junking, medical stores, rearrangement, disposal, and South Sudan.

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ACRONYMS AND ABBREVIATIONS

CES	Central Equatoria State
CHD	County Health Department
CMS	Central Medical Store
EMF	Emergency Medicine Fund
FEFO	First Expiry First Out
HPF	Health Pooled Fund
ISDP	Integrated Service Delivery Program
MOH	Ministry of Health
NGO	Nongovernmental Organization
PEPFAR	President's Emergency Plan for AIDS Relief
PMIS	Pharmaceutical Management Information System
SIAPS	Systems for Improved Access to Pharmaceuticals and Services
SMOH	State Ministry of Health
USAID	United States Agency for International Development
WES	West Equatoria State

EXECUTIVE SUMMARY

The supply of pharmaceuticals and medical supplies in South Sudan faces numerous challenges, such as stock outs, overstock, and expiry, mainly due to poor inventory management practices. In order to address storage practices at County Health Department (CHD) medical stores, SIAPS conducted an activity to de-junk CHD medical stores in the Central and Western Equatoria States (CES and WES), in collaboration with USAID-funded Integrated Service Delivery Program (ISDP) and its implementing partners. The objective of the intervention was to improve warehouse management practices and conditions and create more storage space at health facilities and CHD medical stores.

SIAPS provided technical and financial support for the de-junking of CHD medical stores in the sixteen counties of the two states. The exercise was completed over a period of one and a half years. CHD de-junking committees were formed to oversee the process. The committees were inclusive, comprising State Ministry of Health (SMOH) officers, county health department officers, public health officers, partner agencies, and security organizations. These committees were authorized by the Director Generals of the SMOH to be in charge and execute this exercise on their behalf.

Each county's stock of pharmaceutical commodities and other health products was de-junked at their county headquarters. Expired or damaged stocks were disposed of according to the Ministry of Health (MOH) guidelines. Non-USAID supported states, such as Western Bahr el Ghazal, Warrap, Lakes, Northern Bahar el Ghazal, and Eastern Equatoria, conducted similar de-junking activities with support from the Health Pooled Fund of South Sudan. SIAPS also conducted a de-junking activity in coordination with PEPFAR-funded HIV sites in CES and WES. The activity and methodology were documented, and results were shared with key stakeholders. At the end of the de-junking exercise, county medical stores were rearranged and cleaned. Enough space was created in health facilities and at county medical stores to receive and store incoming distributions of supplies. Inventory lists of the usable stock were taken and shared with the MOH and partners, as well as all the PEPFAR-supported sites that participated.

BACKGROUND

The Systems for Improved Access to Pharmaceuticals and Services (SIAPS) is collaborating with USAID/South Sudan to provide technical assistance to assure the availability of quality pharmaceutical products and effective pharmaceutical services to achieve desired health outcomes for the Government of South Sudan. SIAPS assists in ensuring access to and rational use of basic HIV/AIDS, malaria, and other essential health products through various interventions, including training, development of standard operating procedures (SOPs), upgrading of infrastructure, and improved commodities procurement, management, and inventory control systems.

In South Sudan, SIAPS has been working with SMOH and CHDs to improve overall pharmaceutical management by providing technical support in the area of supply chain management such as, improving inventory and medical stores management, conducting capacity building training, and strengthening the Pharmaceutical Management Information System (PMIS).

A 2010 comprehensive qualitative pharmaceutical sector assessment found significant challenges in the sector. Key among them were:

- Multiplicity of vertical supply chains supported by different donors
- Complex pharmaceutical supply management system due to uncoordinated parallel procurement systems and/or poor donation practices
- Use of a kit-based push system which allocates medical supplies from the central level to the lower levels of the health system, resulting in oversupply and undersupply of some items
- A weak information management system that does not provide timely and reliable medicine consumption/morbidity data
- non-harmonized inventory control forms being used at various levels and by different partners
- Poor storage facilities and conditions
- Lack of transport and communication systems
- Shortage of qualified pharmaceutical personnel at all levels
- Lack of adequate legislation and enforcement mechanisms to regulate the practice of pharmacy and assure safety and effectiveness of pharmaceuticals and medical devices

CHDs and health facilities usually have little or no medical storage space, and when they do, the storage conditions for pharmaceuticals and medical supplies are poor. The limited storage spaces were usually occupied with expired, obsolete, and damaged pharmaceuticals and medical supplies. By 2013, CHDs and health facilities were in much need of improving their storage conditions in order to have adequate space for regular Emergency Medicines Fund

(EMF) consignments. SIAPS undertook a process of de-junking stores to clear out expired and unusable commodities, freeing up space for usable medicines. Using the systems strengthening approach, SIAPS implemented the strategy in the six counties of Central Equatoria State (CES) and the 10 counties of Western Equatoria State (WES).

The objective of the de-junking and medical stores rearrangement campaign was to improve medical store management practices and overall conditions and enable storage space to be identified at health facilities and CHD medical stores.

APPROACH

At the central level, SIAPS collaborated with the MOH and partners to develop de-junking guidelines and accompanying training materials to guide counties in the process. Terms of reference were developed to inform counties and authorize the activity to occur (Annex A). SIAPS coordinated the de-junking exercise in collaboration with ISDP and its implementing partners in the two states of Central and Western Equatoria.

De-junking is a multi-step process that requires the involvement of supply chain partners and service providers throughout each state, including training for sensitization and systematic coordination. At the state level, sensitization was conducted to gain support from health facility staff and partners working in each county. Participants were trained on how to conduct and document the systematic process. At the end of training, CHD staff and partners prepared county de-junking plans. Plans were shared with SIAPS and SMOH counterparts for approval. The workshop was attended by two delegates from each county – one representing the CHD and the other representing USAID-ISDP. Once the de-junking plans were approved, de-junking teams were established at the county level. Teams comprised four individuals, including CHD Medical Store Officer-in-Charge, CHD Sanitation Officer, ISDP Partner Representative, and SIAPS Technical Advisor. The teams in each county performed the tasks summarized in Figure 1 below. At each facility, teams mentored health workers and store managers on how to rearrange stock and properly record inventory on stock cards. Health facilities were provided with stock cards, dispensing registers, and report and requisition vouchers.

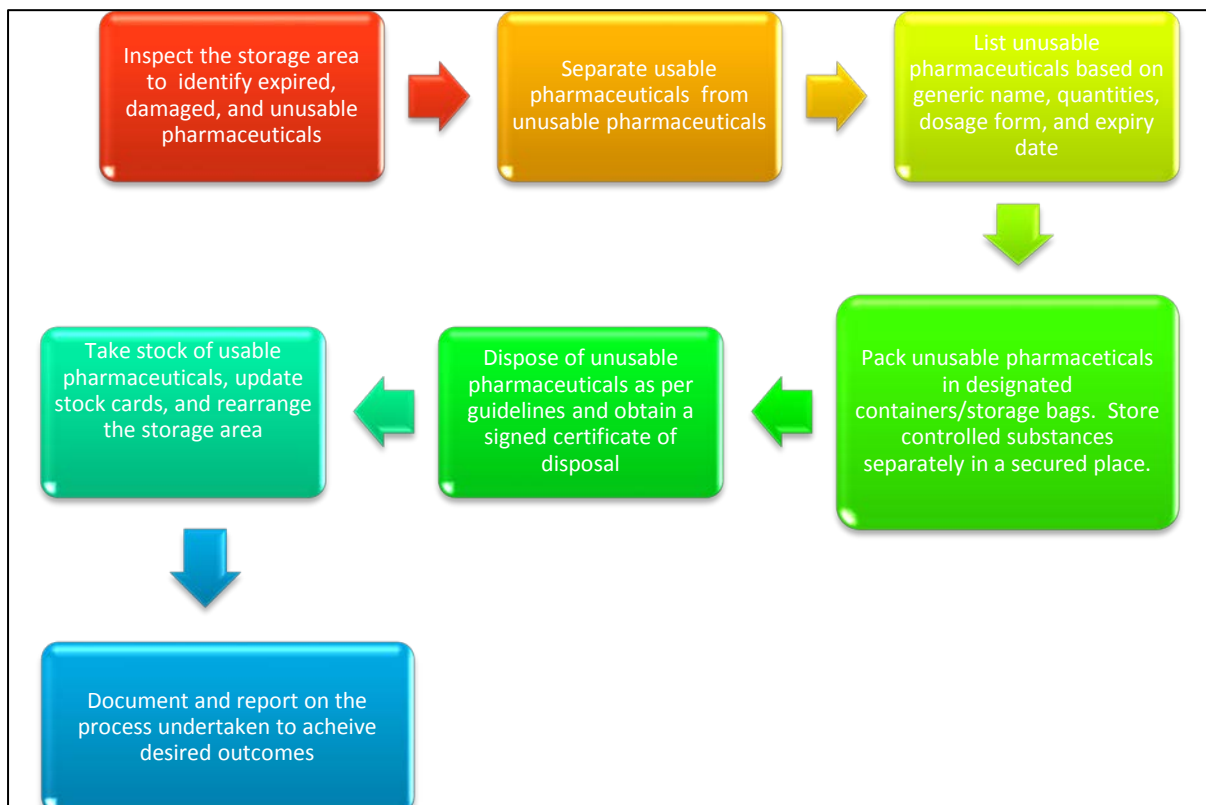


Figure 1. Step by step tasks for de-junking

ACCOMPLISHMENTS

- SIAPS assisted technically and financially in the de-junking and rearrangement of the county medical stores of the sixteen counties of the two states of CES and WES. The de-junking exercise was completed over period of one and a half years through county de-junking committees.
- Each county was de-junked separately at the county headquarters. The exercise was done according to the MOH de-junking guidelines, with expired or damaged stocks disposed of accordingly. At the end of the de-junking exercise, county medical stores were rearranged and cleaned.
- Enough space was created in health facilities and county medical stores for incoming supplies, such as the products procured by PEPFAR and EMF.
- The inventory of usable stock at PEPFAR-supported sites was taken and shared with MOH and its partners.
- The impact of the de-junking activity in South Sudan went far beyond initial planning, coordination, and implementation in the Central and Western Equatorial States. Through coordinated Pharmaceutical Technical Working Groups, SIAPS was able to advocate for de-junking to other partners working in other states. Other states in South Sudan engaged with their partners to carry out similar activities targeted to clean out the facilities of unusable products. By the end of 2014, health facilities and county medical stores in eight out the ten former states of South Sudan had enough storage space for incoming supplies.
- Pharmaceuticals worth about \$80,000 were de-junked in CES (Figure 2). A detailed list of de-junked pharmaceuticals in ten counties in CES and WES can be found in Annex E.
- In addition to essential medicines, unusable stock of HIV/AIDS commodities were removed from all the PEPFAR-supported sites.
- Inventory of the usable stock was taken and shared with the MOH and partners, allowing for better information access and understanding of stock status for future distributions. Visited county medical stores were cleaned and rearranged.

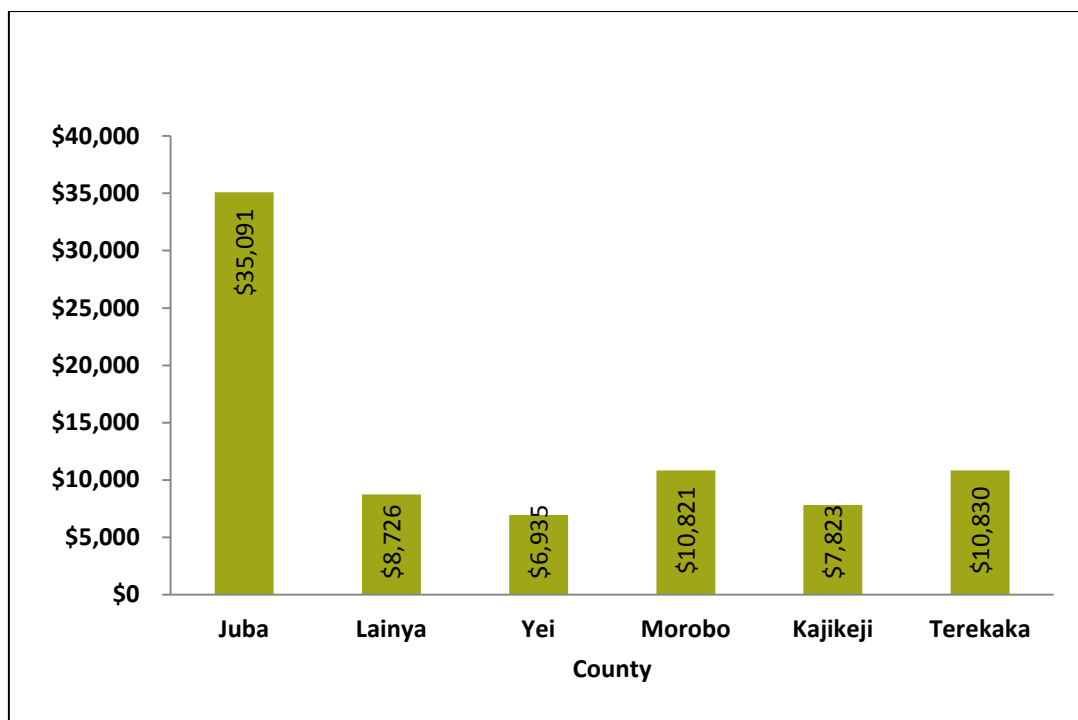


Figure 2. Value of de-junked pharmaceuticals in CES

Recommendations

De-junking requires extensive planning and coordination. To keep the medical stores clean and organized after de-junking, CHDs should continue working with partners to improve pharmaceutical management at county medical stores and health facilities. Adherence to South Sudan’s donation guidelines should be emphasized to avoid receiving unwanted pharmaceuticals and medical supplies. Regular supportive supervision should be conducted to monitor expiration dates and inventory management practices, and observance of the First Expired, First Out rule should be encouraged. A pull (order-based) system should be implemented to enable facilities to request products based on their consumption levels, replacing the current push (kit-based) system. The push system results in overstocking and understocking of pharmaceuticals and supplies since all health facilities have varying patient loads, human resource capacities, and disease patterns. To facilitate the destruction of expired and damaged products, it is recommended that the Ministry of Health invest in incinerators.

ANNEX A: ORIGINAL TERMS OF REFERENCE

SMOH/CE/44.B.1

01/11/2013

To: County Medical Officer

[Insert Name of County] County Health Department

Subject: De-junking and rearrangement of County Store

The State Ministry of Health is carrying out a de-junking exercise for all County Medical Stores in the state. This exercise is to dispose of all expired, damaged, obsolete pharmaceutical and medical supplies to create more space, rearrange and update stock cards within County Medical Stores leading to the overall improvement of stores management. This is in line with the National Plan for New Medical Supplies System, which shall start by the arrival of supplies under the EMF (Emergency Medicine Fund). The shipment is expected to arrive from January, 2014.

We authorize your office to form a County de-junking committee to carry out de-junking of County Medical Store and write full report by the end of this task. For that, we will send you a team from the Pharmaceutical Services Directorate and one Technical Advisor from the SIAPS project to assist you in this exercise.

We look forward to this activity taking place as soon as possible. Thank you for your usual cooperation and support.

Regards,

Dr. Hillary O. Okanyi
Director General
SMOH/CE/Juba

Cc: Hon. Minister of Health/SMOH/CE
Cc: Commissioner/Lainya County
Cc: Director of Pharmaceutical Services
Cc: File

ANNEX B: GENERAL GUIDE ON THE DE-JUNKING AND WAREHOUSE ARRANGEMENTS CAMPAIGN

Background

The continuous supply of pharmaceuticals and medical supplies in South Sudan is challenged by stock outs, overstock, and expired product due to poor inventory management practices; an inadequate supply of skilled human resources; poor infrastructure and storage conditions; and lack of information for decision-making. The current kit-based drug supply push system does not meet actual health needs and consumption levels, leading to frequent stock outs and overstocking of essential medicines at health facilities and County Health Departments (CHDs). The majority of major health programs in South Sudan have uncoordinated parallel drug supply systems.

CHDs and health facilities usually have limited or no storage space, and storage conditions are usually poor. Medical stores are overwhelmed with expired, non-usable, and damaged commodities, leaving limited space for recently delivered procurements of pharmaceuticals and medical supplies. This quarter's consignment of drugs procured by the Emergency Medicine Fund (EMF) will be distributed to CHDs by December 2013. CHDs need to improve storage conditions and have adequate space for the incoming consignment. De-junking and warehouse arrangement will make more space available for storage.

The USAID-funded, Systems for Improved Access to Pharmaceuticals and Services (SIAPS) Program is working with State Ministries of Health and CHDs to improve pharmaceutical management by providing technical support in the area of supply management, such as improving inventory and warehouse management, providing capacity building training, and strengthening the Pharmaceutical Management Information System (PMIS) through the supply of PMIS formats, including stock cards, report forms, and requisition forms. SIAPS will coordinate the de-junking exercise in collaboration with the USAID-funded Integrated Service Delivery Program (ISDP) and its implementing partners. SIAPS Technical Advisors located in the Central Equatoria State (CES) and Western Equatoria State (WES) will coordinate the de-junking activity in collaboration with ISDP.

Objective

The objective of the de-junking and medical stores rearrangement campaign is to improve medical store management practices and overall conditions and enable storage space to be identified at health facilities and CHD medical stores.

Pharmaceuticals Eligible for De-junking

- ✓ All expired/damaged pharmaceuticals, including medical supplies
- ✓ All syrups or solutions found unsealed that are expired or unexpired (e.g. eye drops)
- ✓ All cold chain products damaged or not stored as per appropriate storage guidelines and/or manufacturers' recommendations (e.g. insulin, hormones, gamma globulins and vaccines)

- ✓ All bulk or loose tablets and capsules in unsealed containers, incorrectly labeled or within a broken blister pack
- ✓ All unsealed or damaged tubes of creams, ointments, lotions and related products
- ✓ All counterfeit pharmaceuticals
- ✓ All disinfectants that have been diluted for more than a week

See “Guidelines for Safe Disposal of Unwanted Pharmaceuticals in and after Emergencies (WHO).”

Support to CHDs and Health Facilities throughout the De-junking Process

SIAPS Technical Advisors will work with State MOH to organize and facilitate the overall de-junking and warehouse arrangement campaign at CHDs in CES and WES. They will provide technical assistance on how to rearrange the medical store and introduce and strengthen the use of stock cards. Stock cards will be provided to sites that do not have sufficient quantities. Partners will advocate and provide financial assistance to conduct the de-junking and rearrangement at CHDs. SIAPS Technical Advisors will identify the gaps and coordinate with ISDP for the procurement of additional shelving units and pallets.

Improper disposal of pharmaceutical products poses environmental risks and impacts public health. Considering the lack of human resources and weak monitoring mechanisms at health facilities, it is recommended that the disposal of expired/damaged drugs be performed at State MOH level or well-staffed CHDs. South Sudan does not have official disposal guidelines for pharmaceuticals and medical supplies. Procedures should be adopted in consultation with MOH and the Drug and Food Control Authority.

In collaboration with SIAPS, CHDs will identify, segregate, and document expired, damaged, and non-usable pharmaceuticals, and report the findings to the State MOH. The expired pharmaceuticals will be transported to State MOH for disposal. The transportation cost is expected to be covered by local implementing partners.

Basic Steps of De-junking and Warehouse Arrangement

1. Each CHD should establish a pharmaceutical de-junking team comprising CHD pharmacy personnel and CHD sanitation team. Representatives of ISDP and SIAPS will join the team to conduct the de-junking exercise and support the transportation of expired and damaged drugs to state MOH.
2. Expired, damaged, and unusable pharmaceuticals should be identified, counted, and listed on the reporting form in Annex C. The expired and damaged pharmaceuticals should be sorted out and listed based on the pharmaceutical dosage forms as indicated on the reporting form.
3. Expired, damaged, and unusable pharmaceuticals need to be separately stored from usable stock and stored in their original containers to facilitate easy recognition of the products for correct disposal. Similar products can be placed in closed containers (e.g. cartons and plastic drums), which should be labeled indicating the content (generic name,

quantity, dosage form, and expiry date). In the case of hazardous and corrosive chemicals and reagents, staff performing the separation and segregation should wear protective equipment, like gloves and boots. Controlled substances, such as narcotics and psychotropic medicines, need to be kept separate from other expired and damaged pharmaceuticals. During the disposal of controlled substances, the proper authorities need to be consulted.

4. All expired and damaged products retrieved during the segregation need to be registered on the stock cards as expired or damaged.
5. A copy of the document with an actual list of the expired and damaged pharmaceuticals should be reviewed, approved, and signed by the team conducting the activity. This document should accompany the formal letter submitted by the CHD to the State MOH.
6. The transport of expired and damaged pharmaceuticals and medical supplies should occur under strict supervision with products in their original packaging and accompanied by proper documentation. The pharmaceuticals and medical supplies should be disposed of in accordance with the appropriate method and in the presence of delegates from the responsible body. Signed and stamped certificate of disposal should be issued by the authorized body (SMOH) to oversee proper disposal of the pharmaceuticals.
7. An inventory of usable pharmaceuticals should be conducted. Stock cards need to be updated or filled in immediately.
8. The remaining usable drugs in the store should be arranged according to the Good Storage Guide (Annex D).
9. Documentation of the de-junking activity will highlight the activity's achievements and challenges as well as provide evidence to support advocacy for similar activities in the future. It is recommended to take before and after pictures of the store warehouse.

ANNEX C: REPORTING FORM FOR LISTING EXPIRED/DAMAGED PHARMACEUTICALS

List of Expired /Damaged Pharmaceuticals						
Name CHD _____				De-junking Period ____ to _____		
S.no	Item Description (Generic Name, Strength, Dosage form)	Unit	Unit Price	Total Price	Expiry Date	Reason for De- junking
Tablets and capsules						
1						
2						
3						
4						
5						
6						
7						
Injectable, Drops, IV fluids						
1						
2						
3						
4						
5						
6						
Syrups/Suspensions						
1						
2						
3						
4						
5						
6						
Chemicals , Reagents						
1						
2						
3						
4						
5						
6						
Ointments and Creams						
1						
2						
3						
4						
5						
6						

ANNEX D: GOOD STORAGE GUIDE

1. Pharmaceuticals and medical supplies must not be stored directly on the floor. Store in a dry, well-ventilated storeroom, away from direct sunlight. Temperatures in the storeroom should not exceed 25⁰C.
2. Protect storeroom from water and moisture.
3. Clean and disinfect the storeroom regularly. Keep food and drink out of the storeroom.
4. Keep fire safety equipment available, accessible, and functional.
5. Store latex products, such as gloves and condoms, away from electric motors, fluorescent lights, and other sources of heat. Keep latex products in paper boxes and cartons.
6. Maintain cold storage, including a cold chain, as required. Storage conditions for products and materials should be in compliance with their labeling information. Items that require refrigeration should be kept in refrigerators in a way that prevents cross contamination and should not be overloaded to allow for air circulation. Refrigeration temperature should be recorded daily on temperature monitoring chart to ensure consistency and that it stays within the required limits.
7. Limit storage area access to authorized personnel. Drugs which need an access-controlled environment, such as narcotics and psychotropic medicines, should be kept locked and separate from the rest of stock, preferably in a lockable cabinet.
8. Stack cartons at least 10 cm off the floor, 30 cm away from the wall and other stacks, and no more than 2.5 m high. Use pallets and shelves to keep the products off the floor so they are less susceptible to pests, water and dirt damage.
9. Store pharmaceuticals away from insecticides, chemicals, old files, office supplies, and other materials.
10. Store flammable products separately from other products. Take appropriate safety precautions. Corrosive or oxidant products, laboratory chemicals and reagents should be stored away from flammables, ideally in a separate steel cabinet to prevent leakage.
11. Store pharmaceuticals to facilitate “First expired, first out” (FEFO) procedures and stock management. Drugs that expire first should be issued first, regardless of when they were received at the health facility.
12. Store drugs in their original shipping cartons. Arrange cartons with arrows pointing up, and with identification labels, expiration dates, and manufacturing dates clearly visible.
13. Separate expired, damaged, and unusable pharmaceuticals from usable pharmaceuticals; label them clearly; and report for disposal.
14. Drugs should be arranged based on their dosage forms and pharmacological action. Tablets and capsules should be kept in one place and, if possible, arranged alphabetically

(e.g. acetylsalicylic acid 300 mg tablets, albendazole 400 mg tablets, amoxicillin 250 mg capsules, etc.).

ANNEX E: LIST OF EXPIRED/DAMAGED PHARMACEUTICALS IN CENTRAL AND WESTERN EQUATORIA STATES

CES counties included here:

1. Terekeka County Health Department
2. Lainya County Health Department
3. Morobo County Health Department
4. Kajokeji County Health Department
5. Juba County Health Department

WES counties included here:

1. Nagero County Health Department
2. Mundri County Health Department
3. Maridi County Health Department
4. Tambura County Health Department
5. Ezo County Health Department

1. Terekeka County Health Department: De-junking Period November 5-9, 2013

Item Description (Generic Name, Strength, Dosage form)	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Expiry Date	Batch No.	Reason for De- junking
Tablets and Capsules							
Aluminum hydroxide 500 mg tabs	Tabs	10,000	0.006	60	Oct-11	8MK02	Expired
Clotrimazole 500 mg vag tabs	Tabs	200	0.1295	25.9	Sep-13	ET101095	Expired
Co-trimoxazol 120 mg tabs	Tabs	20,000	0.0043	86	Sep-10	ET071660	Expired
Doxycycline 100 mg tabs	Tabs	5,000	0.0144	72	Jan-10	7MB28	Expired
Fe+folic acid 200/0.25 mg tabs	Tabs	27,000	0.0031	83.7	Aug-10	FI-17/07	Expired
Fe+folic acid 200/0.25 mg tabs	Tabs	10,000	0.0031	31	Oct-11	FI-296/08	Expired
Glyceryl trinitrate 500 mg tabs	Tabs	100	0.0795	7.95	Nov-13	KGF765	Expired
Multivitamin tablets	Tabs	2,000	0.0055	11	Nov-12	ET100009	Expired
Prednisolone 5 mg tabs	Tabs	1,200	0.1	120	Jul-10	ET071515	Expired
Promethazine 25 mg tabs	Tabs	2,000	0.0046	9.2	Aug-10	7M164	Expired
Ranitidine 150 mg tabs	Blister	2,000	0.025	50	Aug-10	7ML43	Expired
Slow-k tabs	Tabs	100	0.0423	4.23	Nov-11	14023189	Expired
Zinc sulfate 20 mg tabs	Tabs	8,000	0.0334	267.2	Jun-12	ET100704	Expired
Injectable, Drops, IV fluids							
Aminophylline 250mg/10ml	Amp	380	0.0536	20.368	Jun-12	TAA660710	Expired
Aminophylline 250mg/10ml	Amp	260	0.0536	13.936	Oct-13	90BK274	Expired
Atropine 1ml/2ml inj	Amp	10	0.0962	0.962	Jul-11	38919	Expired
Dextrose 50% in water 500ml	Bottle	8,342	0.0011	9.1762	Nov-13	820M206003	Expired
Frusamide 20mg/2ml inj	Amp	120	0.0623	7.476	Aug-12	39265	Expired
Lignocaine 1% 20ml inj	Vial	90	0.0211	1.899	Jul-12	38848	Expired
Normal saline 0.9% 500ml	Bottle	9,555	0.0009	8.5995	Jul-13	21162	Expired
Promethazine 50mg/2ml inj	Amp	100	0.1119	11.19	Sep-12	39471	Expired
Ringer lactate	Bottle	98	0.001	0.098			
Water for inj 10ml	Amp	216	0.0565	12.204	Aug-13	10303	Expired

Improving Storage Conditions in South Sudan

Item Description (Generic Name, Strength, Dosage form)	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Expiry Date	Batch No.	Reason for De- junking
Chemicals, Reagents							
Acetone	1L	18	16	288	Apr-13	1105393/2	Expired
Acid alcohol solution	500ml	18	16	288	Mar-13	1104380/2	Expired
Carbolfuchsin (z-n)	500ml	18	118.55	2133.9	Apr-13	1104378/2	Expired
Crytal violet 0.5% solution	500ml	18		0	Mar-13	1104384/2	Expired
Giemsa stain solution	500ml	18	115.6	2080.8	Apr-13	1105408/2	Expired
Lugol's iodine solution	1L	18	111.8	2012.4	Mar-13	1104378/2	Expired
May Granward stain	500ml	18		0	Mar-13	1104391/2	Expired
Methanol	1L	18		0	May-13	1106410/2	Expired
Test kit, HIV 1+2	Pack	4	12.24	48.96	Jul-09	41152	Expired
Turk's solution	100ml	18		0	Mar-13	110438812	Expired
Topical preparations (ointments, eye drops, creams, etc.)							
Benzyl benzoate solution	1L	115	0.0054	0.621	Aug-10	907192	Expired
Chlorhexidine 1.5%+Cetrimide 15% sol 1L	1L	78	27.25	2125.5	Jun-10	707148	Expired
Dichloroisocyanurate 67mg tabs	Tabs	3,000	0.0488	146.4	Apr-13	P-32	Expired
Multipurpose aqua tabs	Tabs	14,800	0.0488	722.24	Apr-10	7881	Expired
Plasmotrim 50	Pack	40	0.4726	18.904	Sep-11	950258	Expired
Povidone iodine 10% solution	500ml	1	0.008	0.008	Aug-12	110014	Expired
Salbutamol inh	Inhaler	20	0.0114	0.228	Jul-10	G72882	Expired
Silver sulfadiazine 1% cream	Tub	500	0.0232	11.6	Jul-13	CK10014	Expired
Silver sulfadiazine 1% cream	Tub	500	0.0232	11.6	Jul-13	CK10014	Expired
Tetracycline HCL oph oint 1%USP	Tube	500	0.0514	25.7	Nov-11	AF08106	Expired
Other							
Male condoms	Box	15	0.0402	0.603	Nov-12	RE081202	Expired
Total				\$10,829.55			

2. Lainya County Health Department: De-junking Period November 18-20, 2013

Item Description (Generic Name, Strength, Dosage form)	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Expiry Date	Batch No.	Reason for De- junking
Tablets and capsules							
Acetyl salicyclic acid tabs	Tabs	8000	0.0039	31.2	Jan-14		Expired
Albendazol 400 mg tabs	Tabs	1500	0.0234	35.1	Oct-11	ET101112	Expired
Chloramphenicol 250 caps	Caps	2000	0.019	38	Jun-13	CHA100602	Expired
Chlorphineramine 4 mg tablets	Tabs	900	0.0038	3.42	Sep-13	ET101092	Expired
Ciprofloxacin 500 mg tab	Tabs	130	0.0378	4.914	Oct-13	GK2536	Expired
Co-trimoxazol 120 mg tabs	Tabs	9000	0.0043	38.7	Sep-10	ET071660	Expired
Co-trimoxazol 480 mg tabs	Tabs	10000	0.0113	113			Expired
Diazepam 5 mg tabs	Tabs	100	0.0063	0.63	May-14	ET110605	Damaged
Diclofenac sidium 50 mg tabs	Tabs	12	0.0065	0.078	2013		Expired
Doxycycline 100 mg tabs	Tabs	11000	0.0144	158.4	Jan-10	7MB28	Expired
Fansidar Tablets	Tabs	21000	0.029	609	Apr-11	SP080402	Expired
Fe+folic acid 200/0.25mg tabs	Tabs	18500	0.0031	57.35	Sep-13	FI-23110	Expired
Ferrous sulphate 65 mg tabs	Tabs	1000	0.0029	2.9			Expired
Folic acid 5mg tabs	Tabs	8000	0.0026	20.8	Aug-12		Expired
Furosemid 40mg tabs	Tabs	1100	0.0061	6.71	May-13		Expired
Mag+Aluminum hydroxide 500 mg tabs	Tabs	68500	0.005	342.5	Oct-11	8MK02	Expired

Annex E: List of Expired/Damaged Pharmaceuticals in Central and Western Equatoria States

Item Description (Generic Name, Strength, Dosage form)	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Expiry Date	Batch No.	Reason for De- junking
Mebendazol 100 mg tabs	Tabs	1000	0.006	6	May-11	ET080801	Expired
Multivitamin tablets	Tabs	3000	0.0055	16.5	Nov-12	ET100009	Expired
Niclosamide tabs	Tabs	1500	0.0277	41.55	May-13		Expired
Praziquantel 600 mg tabs	Tabs	2000	0.1188	237.6	Sep-10	ET081005	Expired
Promethazine 25 mg tabs	Tabs	400		0	Aug-10	7M164	Expired
Salbutamol 4 mg tabs	Tabs	2000	0.0032	6.4	Jun-13	ET100706	Expired
Vitamin A (retinol 100,000 IU) 30mg caps	Caps	300	0.0255	7.65	Dec-10	0-0299A	Expired
Injectable, Drops, IV fluids							
Adrenaline 1mg/ml inj	Amp	10	0.1946	1.946	Jul-13		Expired
Aminophylline 250mg/10ml	Amp	45	0.0536	2.412	Jun-12	TAA660710	Expired
Atropine 1ml/1ml inj	Amp	300	0.0962	28.86	Jul-11	38919	Expired
Ceftriaxone 1 g inj	Vial	313	0.7041	220.3833	Jul-05		Expired
Chlorpromazine 50 mg inj	Amp	40	0.0548	2.192	Mar-14	112187	Expired
Diazepam 5mg/ml	Amp	1590	0.0637	101.283	Jun-13	FH014X	Expired
Frusamide 20mg/2ml inj	Amp	30	0.0623	1.869	Aug-12	39265	Expired
Hydrocortisone sodium succinate 100mg vial	Vial	120	0.5245	62.94	Jan-14	1160334	Expired
Lignocaine 1% 20ml inj	Vial	825	0.0211	17.4075	18/2011	38848	Expired
Normal Saline	Bottle	4717	0.0009	4.2453	Oct-12	P9A3200E	Expired
Promethazine 50mg/2ml inj	Amp	100	0.1119	11.19	Sep-12	39471	Expired
Ringer lactate 500ml	Bottle	72	0.001	0.072	Jun-12	9287A251	Expired
Water for inj 10ml	Amp	3000	0.0565	169.5	Aug-13	10303	Expired
Chemicals, Reagents							
Acetone solution	1 L	4	16	64	Apr-13		Expired
Acid alcohol solution	500ml	7	16	112	Mar-13	1104380/2	Expired
Buffer tablets	Tin	9	19.2	172.8	Dec-11		Expired
Carbolfuchsin (z-n)	500ml	8	118.55	948.4	Apr-13	1104378/2	Expired
Crystal violet powder	Tin	27	0.1305	3.5235	Jun-13		Expired
Crytal violet 0.5% solution	500ml	12	9.19	110.28	Mar-13	1104384/2	Expired
Giemsa stain solution	500ml	3	115.6	346.8	Apr-13	1105408/2	Expired
Lugol's iodine solution	1L	13	111.8	1453.4	Mar-13	1104378/2	Expired
Malariaiayest kit	Kit	1250	0.7392	924	Feb-13	AFC010111	Expired
May Grayward stain	500ml	18	9.73	175.14	Mar-13	1104391/2	Expired
Methanol	1L	4	15.65	62.6	May-13	1106410/2	Expired
Neutral red solution	1 L	13	10.4	135.2	Nov-12		Expired
Sodium metabisulphate	Tin	10	10.74	107.4	Mar-13		Expired
Turk's solution	100ml	14	5.55	77.7	Mar-13	110438812	Expired
Topical preparations (ointments, eye drops, creams etc.)							
Benzyl benzoate solution	1L	24	0.0054	0.1296	Aug-10	907192	Expired
Calamine lotion	Bottle	15	0.0031	0.0465	41671		Expired
Clotrimazol 500mg	Tabs	117	0.1295	15.1515	41518	ET101095	Expired
Dichloroisocyanurate 1.67mg tabs	Tabs	29700	0.0488	1449.36	Apr-13	P-32	Expired
Lubricating gel	Tube	6	3.33	19.98	41548		Expired
ORS	Sachets	1300	0.103	133.9	40452	P0497K	Expired
Silver sulfadiazine 1% cream	Tub	180	0.0232	4.176	Jul-13	CK10014	Expired
Tetracycline HCL ophoint 1%USP	Tube	150	0.0514	7.71	Nov-11	AF08106	Expired
Zinc oxide cream	Tube	1	0.0125	0.0125	Jul-13		expired
Total				\$8,726.41			

3. Morobo County Health Department: De-junking Period November 11-25, 2013

Item Descriptions (Generic Name, Strength, Dosage form)	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Expiry Date	Reason for De-junking
Tablets and capsules						
Acetylsalicylic acide tablets	Tab	1000	31.2	31,200	Jun-13	Expired
ACT infants	Dose	49	0.753	37	Jul-13	Expired
Albendazole 400mg tablets	Tabs	2100	35.1	73,710	Oct-13	Expired
Azithromycin tablets	Doses	52		-	Dec-08	Expired
Cefixime 200 mg tablet	Tablet	280		-	Mar-13	Expired
Clotrimazol pessary	Doses	10	0.1295	1	Nov-13	Expired
Ferrous sulfate tablet	Tablet	6300	0.0031	20	Sep-13	Expired
Frusemide 40 mg tablets	Tablet	1700	0.0061	10	Jul-13	Expired
Griseofolvin tablets	Tablet	600		-	Oct-13	Expired
Levonorgestil	Tab	68	0.45	31	May-13	Expired
Mectizan tablets	Tablet	7000		-	Mar-13	Expired
Multivitamin tablet	Tablet	3600	0.0055	20	Oct-13	Expired
Nicosimide 500mg tablets	Tablet	400	0.0277	11	May-13	Expired
Oral contraceptives tablet	Tablet	12739	1.18	15,032	Jul-13	Expired
Praziquantel 400 mg tablet	Tablet	500	0.1188	59	Sep-13	Expired
Salbutamol 4mg tablets	Tablet	6000	0.0032	19	Mar-13	Expired
SP tablets	Tab	500	0.0258	13	Dec-12	Expired
Vitamin A capsule	Capsule	1450	0.0255	37	Jul-13	Expired
Zidovudine	Tablet	120		-	Sep-13	Expired
Zinc sulphate 20 mg tablet	Tablet	400	0.75	300	Jul-13	Expired
Injectable, Drops, IV fluids						
Adrenaline inj	Amp	140	0.946	132	Dec-12	Expired
Aminophylline inj	Amp	40	0.0536	2	Jun-12	Expired
Atropine sulfate inj	Amp	4	0.0962	0	Aug-13	Expired
Chase buffer determine	Vial	4		-	Jan-13	Expired
Dextrose 5% 500ml	Bottle	1200	0.006	7	Jul-13	Expired
Diazepam 10mg inj	Amp	100	0.0382	4	Jun-13	Expired
Frusemide 40 mg inj	Amp	4	0.0623	0	May-13	Expired
Lidocain 2% inj	Vial	491	0.0211	10	Jun-13	Expired
Magnesium sulfate inj	Amp	10		-	Aug-13	Expired
Normal saline 0.9% 500ml	Bottle	5360	0.0006	3	Oct-13	Expired
Water for injection 10 ml	Amp	1450	0.0264	38	Oct-13	Expired
X Pen I nj	Vial	100	0.0558	6	Jun-13	Expired
Syrups/Suspensions						
Ampiclox syrup	Bottle	36	0.6	22	Mar-13	Expired
Nevirapine oral suspension	Bottle	17		-	Oct-13	Expired
Chemicals, Reagents						
Acetone 500ml	Bottle	2	16	32	Sep-13	Expired
Acid alcohol 500ml	Bottle	1	16	16	Nov-13	Expired
Blood lancets	PCS	10	1.45	15	Jun-10	Expired
Carbon fichsin solution	Bottle	1	118.55	119	Oct-12	Expired
Carbon fichsin solution	Bottle	1	118.55	119	Apr-13	Expired
Chlorine tablets	Pcks	79	0.0488	4	Aug-13	Expired
Crystal violet solution	Bottle	1	9.19	9	Mar-13	Expired
Crystal violet solution	Bottle	1	9.19	9	Oct-12	Expired
EDTA Tubes	PCS	200		-	Apr-13	Expired
Logol's iodine solution			10	-		Expired
May Granwald solution	Bottle	1	9.73	10	Sep-13	Expired
May Granwald solution	Bottle	1	9.73	10	Mar-13	Expired
Methanol solution 500ml	Bottle	2	15.65	31	May-13	Expired
Microscopic slides	Packs	35	1.2	42	Jan-12	Expired
Parachecks	PCS	100	17	1,700	May-13	Expired
Turk's solution	Bottle	1	5.55	6	Aug-13	Expired
Turk's solution	Bottle	1	5.55	6	Nov-13	Expired
Urine strips	Tins	50	34	1,700	May-13	Expired
Urine strips	Tins	12	34	408	Apr-13	Expired
Topical preparations(ointments, eye drops, creams etc)						
Benzic acid cream	Tub	300	0.4	120	Aug-13	Expired
GV powder	Tin	5	0.1305	1	May-13	Expired
Sulfadiazine cream	Tub	57	1.16	66	Jul-13	Expired
Other						
Bandages	PCS	300	1.17	351	Aug-13	Expired
Female condoms	PCS	1480	4.42	6,542	May-13	Expired
Total				\$132,038		

Annex E: List of Expired/Damaged Pharmaceuticals in Central and Western Equatoria States

Item Description (Generic Name, Strength, dosage form)	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Expiry Date	Batch No.	Reason for De-junking
Tablets and capsules							
Acetylsalicylic acid tablets	Tab	1000	31.2		6/2013		
ACT infants	Dose	49			7/2013		
Albendazole 400mg tablets	Tab	2100	35.1		10/2013		
Azithromycin tablets	Doses	52			12/2008		
Cefixime 200 mg tablet	Tablet	280			3/2013		
Clotrimazol pessary	Doses	10	0.1295		11/2013		
Ferrous sulfate tablet	Tablet	6300	0.0031		9/2013		
Frusemide 40 mg tablets	Tablet	1700	0.0061		7/2013		
Griseofolvin tablets	Tablet	600			10/2013		
Levonorgestil	Tab	68			5/2013		
Mectizan tablets	Tablet	7000			3/2013		
Multivitamin tablet	Tablet	3600	0.0055		10/2013		
Niclosimide 500mg tablets	Tablet	400	0.0277		5/2013		
Oral contraceptives tablet	Tablet	12739			7/2013		
Praziquantel 400 mg tablet	Tablet	500	0.1188		9/2013		
Salbutamol 4mg tablets	Tablet	6000	0.0032		3/2013		
SP tablets	Tab	500			12/2012		
Vitamin A capsule	Capsule	1450	0.0255		7/2013		
Zidovudine	Tablet	120			9/2013		
Zinc sulphate 20 mg tablet	Tablet	400			7/2013		
Injectable, Drops, IV fluids							
Adrenaline inj	Amp	140	0.946		12/2012		
Aminophylline inj	Amp	40	0.0536		6/2012		
Atropine sulfate inj	Amp	4	0.0962		8/2013		
Chase buffer determine	Vial	4			1/2013		
Dextrose 5% 500ml	Bottle	1200			7/2013		
Diazepam 10mg inj	Amp	100			6/2013		
Frusemide 40 mg inj	Amp	4			5/2013		
Lidocain 2% inj	Vial	491	0.0211		6/2013		
Magnisium sulfate inj	Amp	10			8/2013		
Normal saline 0.9% 500ml	Bottle	5360			10/2013		
Water for injection 10 ml	Amp	1450			10/2013		
X Pen I nj	Vial	100			6/2013		
Syrups/Suspensions							
Ampiclox syrup	Bottle	36			3/2013		
Nevirapine oral suspension	Bottle	17			10/2013		
Chemicals , Reagents							
Acetone 500ml	Bottle	2	16		9/2013		
Acid alcohol 500ml	Bottle	1	16		11/2013		
Blood lancets	PCS	10			6/2010		
Carbon fichsin solution	Bottle	1	118.55		10/2012		
Carbon fichsin solution	Bottle	1	118.55		4/2013		
Chlorine tablets	Pcks	79	0.0488		8/2013		
Crystal violet solution	Bottle	1	9.19		3/2013		
Crystal violet solution	Bottle	1	9.19		10/2012		
EDTA Tubes	PCS	200			4/2013		
Logol's iodine solution							
May Granwald solution	Bottle	1	9.73		9/2013		
May Granwald solution	Bottle	1	9.73		3/2013		
Methanol solution 500ml	Bottle	2	15.65		5/2013		
Microscopic slides	Packs	35			1/2012		
Parachecks	PCS	100	17		5/2013		
Turk's solution	Bottle	1	5.55		8/2013		
Turk's solution	Bottle	1	5.55		11/2013		
Urine strips	Tins	50			5/2013		
Urine strips	Tins	12			4/2013		
Vacotain with red cups	PCS	200			5/2013		
Topical preparations (ointments, eye drops, creams etc)							
Benzic acid cream	Tub	300			8/2013		
GV powder	Tin	5			5/2013		
Sulfadiazine cream	Tub	57			7/2013		
Other							
Bandage	PCS	300			8/2013		
Female condoms	PCS	1480			5/2013		
Total							

4. Kajokeji County Health Department: De-junking Period

Item Description (Generic Name, Strength, Dosage form)	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Expiry Date	Batch No.	Reason for De- junking
Tablets and capsules							
Albendazole 400 mg tabs	Tabs	16000	0.0234	374.4	ET101112	10/2013	Expired
Artesunate amodiaquine (adult)	dose	25	1.461	36.5	SHM204	4/2013	Expired
Cotrimoxazole 480mg tab	Tabs	131	0.7041	92.2	ET 101090	9/2013	Expired
Diazepam 5 mg tabs	Tab	1200	0.00063	0.756	FHO 14X	6/2013	Expired
Ferrous/folic Acid tabs	Tabs	10	0.0031	0.031	F1229/10	9/2013	Expired
Griseofulvin 500 mg tabs	Tab	130	0.0597	7.7	UR921	8/2013	Expired
Multivitamin tabs	Tab	4000	0.0055	22	ET 110898	11/2013	Expired
Niclosamide tabs	Tabs	10000	0.0277	2770	ET 101102	10/2013	Expired
Oral contraceptives tabs	Tabs	200	0.344	68.8	L922A	9/2013	Expired
SP 25/500mg tabs	Tabs	150	0.029	4.3	CK 100018	10/2013	Expired
Vitamin A, Retinal	Caps	8	0.0255	0.2	SO115273	10/2013	Expired
Injectable, Drops, IV fluids							
Benzyl Penicillin	Vials	3900	0.2462	960.1	588110902	1/2014	Expired
Chloramphenical 1g	Vials	60	0.4717	28.302	1140113	13-Dec	Expired
Dextrose 5%	Bottles	78	0.0011	0	01/53	9/2013	Expired
Diazepam 5 mg	Amp	4500	0.0637	286.6	FH126X	12/13	Expired
Gentamicin 0.3% eye drop	Drops	50	0.0696	3.4	M11304	10/2013	Expired
Ligoncaine 20ml	Vials	3000	0.0211	63.3	LGCTIW10	9/2013	Expired
Penicillin 1200,0000UI	Vials	10	0.2462	2.461	1007026	7/2013	Expired
Ringer's lactate solution	Bottles	12	0.001	0	SN7002	11/2013	Expired
Syrups/Suspensions							
Chloraphenicalsusp	Bottles	12	0.0067	0	ED1182	1/2014	Expired
ORS	Sachet	30000	0.103	3090		9/2013	Expired
Chemicals , Reagents							
Dihloroisocyaniate (chlorine)	Tabs	121	0.0488	5.9	P-68	11/2013	Expired
Topical preparations(ointments, eye drops, creams etc)							
Benzylbenzoate	Bottles	30	0.0054	0.1	1140113	12/2013	Expired
Tetracycline 3% skin ointment	Tube	125	0.0367	4.5	EF 100088	9/2013	Expired
Other							
Examination gloves	boxes	30	0.049	1.4	901667000	8/2013	Expired
Total				\$ 7,822.95			

5. Juba County Health Department: De-junking Period

Item Description (Generic Name, Strength, Dosage form)	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Expiry Date	Batch No.	Reason for De- junking
HIV commodities							
Blood Capillary Tube/100 tubes	Tins	65	0	-	1-May-14	1502	Expired
Blood lancet	pc	100	0.017	1.7	13-Nov	8400	Expired
Chase buffer for determine test kits	boxes	7	1.2	8.4	15-May-14	-	Expired
Co-trimoxazole 480 mg	Tins	33	10.39	342.9	14-May-14	11	Expired
Female Condoms	Boxes	62	94.87	5,881.9			Expired
HIV Test Kit Determine HIV 1/2	Kit	95	0.84	79.8	1-May-13	HIV2060048	Expired
Lamivudine tablets	boxes	5	0.0423	0.2	14-Mar-14	E120430	Expired
Lidocaine injection	tin	24	0.0211	0.5	14-Feb-14	LGC11W1006	Expired
Neviraphine Suspense 50mg/5L	Tins	69	0.101	7.0	1-Oct-13	NR0511096-A	Expired
Syphilis Test kits	Kit	84	1.596	134.1	1-Sep-13	45318k100	Expired
Uni-Gold HIV Test Kit	Kit	89	2.88	256.3	14-Jan-14	HIV2060048	Expired
Tablets and capsules							
Acetyl salicylic acid tabs	Tabs	1300	0.0039	5.07	Jan-14		Expired
Albendazol 400mg tabs	Tabs	1100	0.0234	25.74	Oct-11	ET101112	Expired
Aminophilline tablets	Tabs	2000	0.0053	10.6			Expired
Amoxicillin 250mg caps	Caps	1300	0.0343	44.59			Expired
AS+AQ (<1) tabs	Dose	50	0.4385	21.925	Oct-11	1025	Expired
Bisacodyl 5mg tabs	Tabs	1000	0.0061	6.1	Apr-14	IMF1023	Expired
Calcium lactate 300mg tabs	Tabs	200	0.0084	1.68	Jan-14		Expired
captopril 25mg Tab	Tab	2000			Jun-13	Et100762	Expired
Chloramphenicol 250 caps	Caps	60	0.019	1.14	Jun-13	CHA100602	Expired
Chlorpromazine 100 mg tabs	Tabs	2310	0.017	39.27	May-14	9ML158	Expired
coartem	Tab	840					
Co-trimoxazol 120 mg tabs	Tabs	8000	0.0043	34.4	Sep-10	ET071660	Expired

Annex E: List of Expired/Damaged Pharmaceuticals in Central and Western Equatoria States

Item Description (Generic Name, Strength, Dosage form)	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Expiry Date	Batch No.	Reason for De- junking
Co-trimoxazol 480 mg tabs	Tabs	2000	0.0113	22.6			Expired
Diazepam 5 mg tabs	Tabs	18000	0.0063	113.4	May-14	ET110005	Damaged
Diclofenac sodium 50 mg tabs	Tabs	1400	0.0065	9.1	Jun-13		Expired
Doxycycline 100 mg tabs	Tabs	3000	0.0144	43.2	Jan-10	7MB28	Expired
Erythromycin 250mg tabs	Tabs	50	0.0378	1.89	2013		Expired
Fe+folic acid 200/0.25mg tabs	Tabs	2000		0	Jan-14	FI-17/07	Expired
Fe+folic acid 200/0.25mg tabs	Tabs	2000	0.0031	6.2	Sep-13	FI-23110	Expired
Ferrous sulphate 65mg tabs	Tabs	20000	0.0029	58	Jun-14	FI.131/10	Expired
Folic acid 5mg tabs	Tabs	1000	0.0026	2.6	May-14	ET 110602	Expired
Hydrochlorothiazide	tab	2800			May-14	ET110622	Expired
Ketoconazole 200mg tabs	Tabs	200	0.0536	10.72	Oct-13	ET101101	Expired
Mag+aluminum hydroxide 500 mg tabs	Tabs	68000	0.005	340	May-13	WO492	Expired
Metronidazole 200mg tabs	Tabs	3000	0.0061	18.3	Sep-13	6770100903	Expired
Multivitamin tablets	Tabs	6000	0.0055	33	Jun-13	ET100652	Expired
Phenobarbitone 30mg/tab	Tab	3000			Oct-13		Expired
Vit A (retinol 100,000 IU) 30 mg	Caps	1200	0.0255	30.6	Dec-10	0-0299A	Expired
Zinc sulfate 20mg tabs	Tabs	3000	0.0334	100.2	Jun-12	ET100704	Expired
Injectable, Drops, IV fluids							
Adrenaline 1mg/ml inj	Amp	20	0.1946	3.892	Oct-13		Expired
Aminophylline 250mg/10ml	Amp	30	0.0495	1.485	Dec-12	TAA030	Expired
Ampicillin inj	Vial	480	0.2076	99.648	Jan-14	110101672	Expired
Atropine 1ml/1ml inj	Amp	667	0.0962	64.1654	Jul-11	38919	Expired
Benzyl penicillin 5 MU powder	Vial	426	0.2462	104.8812	Feb-47	100601588	Expired
Calsuiminj	Amp	5					
Diazepam 5mg/ml	Amp	3920	0.0637	249.704	Jan-14		Expired
Glucose 50%,in water 50ml	Vial		0.0153	0	Jan-14		Expired
Hydralazin	Amp	65					
Hydrocortisone sodium succinate 100mg vial	Vial	16	0.5245	8.392	Jan-14	1160334	Expired
Ketamin inj	Vial	150			Jun-14		Expired
Lignocaine 1% 20ml inj	Vial	1402	0.0211	29.5822	18/2011	38848	Expired
Magnesium sulphate 500 mg/ml 10ml vial	Amp	60	0.1332	7.992	Feb-14	1081087	Expired
Normal Saline	Bottle	886	0.0009	0.7974	Oct-12	P9A3200E	Expired
Water for inj 10ml	Amp	5300	0.0565	299.45	Feb-14	10303	Expired
Chemicals, Reagents							
Acetic acid	1L	3	116	348	Apr-13	1105393/2	Expired
Acetone solution	1 L	6	16	96	Apr-13	1105393/2	Expired
Acid alcohol solution	500ml	10	16	160	Mar-13	1104380/2	Expired
Carbolfuchsin (z-n)	500ml	10	118.55	1185.5	Apr-13	1204667/3	Expired
Crystal violet powder	Tin	12	0.1305	1.566	Jun-13		Expired
Giemsa stain solution	500ml	7	115.6	809.2	Apr-13	1105408/2	Expired
Hydrochloric acid conc	1 L	2	120.95	241.9	Apr-13		Expired
Lugol's iodine solution	1L	10	111.8	1118	Mar-13	1104378/2	Expired
May Granward stain	500ml	9	9.73	87.57	Mar-13	1204666/3	Expired
Methanol	1L	9	15.65	140.85	May-13	1106410/2	Expired
Sodium metabisulphate	Tin	9	10.74	96.66	Mar-13		Expired
Turk's solution	100ml	11	5.55	61.05	Mar-13	110438812	Expired
Ointments, Creams & Solutions							
Benzyl benzoate solution	1L	33	0.0054	0.1782	Feb-14	907192	Expired
Betamethasone +Neomycin cream	Tube	4	0.245	0.98	Sep-13	M11250	Expired
Betamethasone valerate 0.1% eye drops	Bottle	4	0.95	3.8	Sep-13	EA03149	Expired
Calamine lotion	Bottle	24	0.0031	0.0744	Mar-14		Expired
Clotrimazol 500mg	Tabs	76	0.1295	9.842	Jan-14	ET110144	Expired
Compound benzoic acid cream	Tube	28	0.0094	0.2632	Jan-14	Ga11023	Expired
Dichloroisocyanurate 1.67mg tabs	Tabs	69	0.0488	3.3672	Apr-13	P-32	Expired
Lubricating gel	Tube	2	3.33	6.66	Oct-13	KG11002	Expired
Oral Syrups, suspensions							
ORS	Sachet	500	0.103	51.5	40452	P0497K	Expired
Artemether/Lumenfantrine 20/120 powder for suspension	Bottle	360	1.7977	647.172	Jan-14		Expired
Others							
Male condoms	Box	500	0.0402	20.1	Nov-12	RE081202	Expired
Total				\$13648.28			

6. Nagero County Health Department: De-junking Period

S/ No	Item Description (Generic Name, Strength, Dosage Form)	Unit	quantity	Batch No	Expired date	Unit price	Total	Reason for De-junking
1	Co-trimaxazole 480 mg	tabs	2000	xn100717	Jul-13	0.0086	17.2	Expired
2	Ferrous+Folic Acid	tabs	4000	fi-136/10	Jun-13	0.0031	12.4	expired
3	Metronidazole 200mg	tabs	1000	6770100609	Jun-13	0.007	7	expired
4	Phenobarbital 30mg	tabs	500	ET091874	Nov-12	0.0026	1.3	expired
5	Ciprofloxacin 500mg	tabs	200	6527100604	Jun-13	0.0286	5.72	expired
6	Multivitamin	tabs	8000	ET110890	Oct-13	0.0266	212.8	expired
7	Clotrimazole vaginal insert 500mg	tabs	180	ET100793	Jul-13	0.0024	0.432	expired
8	Water purification	tabs	8000	P-43	Jun-13	0.00264	21.12	expired
Injection IV Fluids								0
1	Ampicillin 500mg	vials	200	100602672	Jun-13	0.144	28.8	expired
2	Diclofenac 25mg	ampls	200	AW016X	Jun-13	0.0049	0.98	expired
3	Gentamycin 40mg	ampls	400	CY024X	Jun-13	0.0514	20.56	expired
4	Ceftriaxone 500mg	vials	100	100715	Jul-13	0.6039	60.39	expired
5	Quinine 300mg/ml	ampls	400	SF007X	6/1013	0.4257	170.28	expired
6	Diazepam 5mg	ampls	200	FH014X	Jun-13	0.0382	7.64	expired
7	Benzathine 2.4M IU	vials	200	100602624	Jun-13	0.186	37.2	expired
8	Benzyl penicillin 5M IU	vials	500	100604588	Jun-13	0.0558	27.9	expired
9	Adrenaline 1mg	ampls	60	TA0061210	11/1012	0.494	29.64	expired
10	Lidocain 2%	vials	100	W0006	Jun-13	0.012	1.2	expired
11	Aminophylline 25mg	ampls	70	TAA010111	Dec-12	0.0077	0.539	expired
12	Chloamphenical 1g	vials	20	1140113	Nov-13	0.4914	9.828	expired
13	Water for injection	ampls	1600	2T540104	May-13	0.00264	4.224	expired
14	Dextrose 5%	bottles	240	820H106021	Jul-13	0.0006	0.144	expired
15	Normal saline	bottles	225	820I204001	Aug-13	0.001	0.225	expired
16	Ringer lactate	bottles	24	820H217015	Jul-13	0.0006	0.0144	expired
Ointment/Creams/Drops								0
1	Betamethazone+Neomycin eye drop	tubes	70	EA03146	Sep-13	0.014	0.98	expired
2	Betamethasone eye drop	tubes	30	M11249	Sep-13	0.245	7.35	expired
3	Genatamycin eye drop	tubes	80	M112489	Sep-13	0.0158	1.264	expired
4	Tetracycline eye ointment	tubes	125	AF10054	Jul-13	0.0123	1.5375	expired
5	Silver sulfadiazine ointment	tubes	30	CK10012	Jul-13	0.0084	0.252	expired
6	Lubricating gel	tubes	12	KG11002	Oct-13	0.71	8.52	expired
Others								0
1	Adhesive tapes	rolls	644	10911908	Dec-12	0.5	322	expired
2	Gouse roll	rolls	13	10906102	Jun-13	10	130	expired
3	Packed gouse/ compressed	pkts	60	10906103	Jun-13	0.11	6.6	expired
4	Gouse bandage 10cm	rolls	470	10906106	Jun-13	0.11	51.7	expired
5	Gouse bandage 7.5cm	rolls	280	10906107	Jun-13	0.11	30.8	expired
							1238.5399	

Item Description (Generic Name, Strength, dosage form)	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Expiry Date	Batch No.	Reason for De-junking
Tablets and capsules							
Albendazole 400Mg	Tabs	6000			ET101112	10/2013	Expired
Amoxicillin 250mg	Caps	6000			100717735	07/2013	Expired
ASA 300 Mg Tbs	Tabs	2000			ASA110901	09/2014	Expired
ASAQ Toddler	Bliester	625			5411	12/2014	Expired
ASAQ-Adult	Blisters	4400			CYZ173003	12/2014	Expired
ASAQ-Infant	Blisters	960			CYX093002	12/2014	Expired
Azithromycin 250mg	Tabs	108			IJ24	09/2014	Expired
Chlorophenamine 4mg	Tabs	2000			ET110837	08/2014	Expired
Ciprofloxacin	Tabs	500			6527110941	09/2014	Expired
Clotrimazole Pessaries	Tabs	786			ET110144	01/2014	Expired
Cotrimoxazole 120mg	Tabs	11000			IMJ37	09/2014	Expired
Cotrimoxazole 480mg	Tabs	50,000			1ME103	04/2014	Expired
Diclofenac 50Mg	Tabs	4400			ET110876	10/2014	Expired
Doxycycline 100mg	Tabs	12000			IMJ51	09/2014	Expired
Erythromycin 250 Mg	Tabs	1000			1MJ47	09/2014	Expired
Folic Acid 5Mg Tbs	Tabs	4000			Et110809	09/2013	Expired
FeSO4	Tabs	50000			F1-268/11	10/2014	Expired
Frusemide 40Mg Tbs	Tabs	8000			ET110885	10/2014	Expired
Ketoconazole Tb	Tabs	50			FKA112A	08/2014	Expired
M/VitamineTbs	Tabs	2000			ET110849	10/2013	Expired

Annex E: List of Expired/Damaged Pharmaceuticals in Central and Western Equatoria States

Item Description (Generic Name, Strength, dosage form)	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Expiry Date	Batch No.	Reason for De-junking
Metronidazole 200mg	Tabs	32000			MEF111003	10/2014	Expired
MgSO4 250 Mg Tbs	Tabs	42000			W1659	09/2014	Expired
Paracetamol 500mg	Tabs	4000			IMJ91	09/2014	Expired
Phenobarbitone 30Mg	Tabs	1000			ET110772	08/2014	Expired
Praziquantel 600Mg	Tabs	800			ET110805	08/2014	Expired
Prednisolone 5mg	Tabs	300			ET110860	10/2014	Expired
Quinine 300mg Tab	Tabs	100			ET100781	07/2013	Expired
Retinol 200,000iu Caps	Tins	400			S111377	09/2014	Expired
Salbutamol 4mg Tbs	Tabs	2000			ET110849	10/2014	Expired
Sulfadiazine	Tabs	6000			Sp110901	09/2014	Expired
ZnSO4 20Mg Tbs	Stripes	32700			ET110853	10/2014	Expired
Injectable, Drops, IV fluids							
5% Dextrose5%	Bottles	72			8208106021	07/2013	Expired
Benzyl penciling	Vials	450			588111101	11/2014	Expired
Chlohexide	Bottles	18			12007B0058	12/2014	Expired
Chloramphenicol	Vial	50			1162206	11/2014	Expired
Gentamycin	Ampoules	280			CY105X	01/2014	Expired
Glucose 50%	Bottles	24			820H410801	07/2013	Expired
Hydrocortisone 100Mg Inj.	Vials	150			1162200	11/2014	Expired
Normal Saline 0.9 %	Bottles	120			820I20401	08/2013	Expired
Oxytocin 10iu Inj.	Ampoules	3000					Damaged
Promethazine inj	Ampoules	1000			11102007	11/2014	Expired
Water for Injection	vials	1250			2T540104	05/2013	Expired
Chemicals, Reagents							
Acid Alcohol 3% 500Mls	Bottle	5			1204651/3	03/2014	Expired
Buffer Tab	Tins	8			LM035310	05/2013	Expired
CarbolFushin 500Mls	Bottles	4			11054042	04/2013	Expired
Cover Slides	Pieces	800					Damaged
Crystal Violet 500 Mls	Bottles	4			1204658/3	03/2014	Expired
Giemsa Stain 500 Mls	Litres	10				05/2014	Expired
Lugol's Iodine 1 Ltr	Bottles	4			1204664/3	03/2014	Expired
May Grunwalt Solution 500 Mls	Bottles	5			1204666/3	03/2014	Expired
Microscope Slides	packets	500					Damaged
Sodium Metabisulphite 500g	Tins	8			1104390/2	3/2013	Expired
Topical preparations (ointments, eye drops, creams etc)							
Adhesive Tap	Rolls	260			11906904	11/2013	Expired
Anti-Haemorrhoids	Tube	12			GL11010	10/2014	Expired
Benzoic Acid Ointment	Tubes	9			MA11003	02/2014	Expired
Calamine Lotion 15%	Bottles	33			QB11003	03/2014	Expired
Chlorohexidine 15%	Tins	18			12007B005A	02/2014	Expired
Clotrimazole Cream	Tube	44			CD11006	02/2014	Expired
Compound Benzoic	Tube	22			GA11057	01/2014	Expired
Giemsa violet 25g	Tin	117			G/25/163	07/2013	Expired
Silver Cream	Tubes	510			CK11013	02/2014	Expired
Tetracycline eye ointment	Tubes	925			AF11035	02/2014	Expired
Water Purification	Tabs	7000			P-54	08/2013	Expired
Oral Syrups, suspensions and liquids							
ORS	Sackets	1300			11087	10/2014	Expired
Other							
Compressed Gouge	Pieces	18000			11904304	07/2014	Expired
Elastic Bandage	Rolls	1800			11904302	07/2014	Expired
Gauze Bandage 4m	Rolls	1800			11904305	07/2014	Expired
Gouge absorbent	Packets	36			11904303	07/2014	Expired
Syringe 2ml	Pieces	500			3317	07/2013	Expired
Syringe 5ml	Pieces	800			3317	07/2013	Expired
Test Tubes	Pieces	700			3K3	04/2012	Expired
Tongue Depressor	Packets	28					Damaged

7. Mundri East County Health Department: De-junking Period

S/ NO	Injection/Infusion	Unit	Quantity	Batch No	Exp Date	Unit price	Total	Reason for De-Junking
1	Normal salin 500ml	bottles	672	021395A	Dec-13	0.35	235.2	Expired
2	Dextrose 5%	bottles	144	31753	Feb-14	0.35	50.4	Expired
3	Normal salin 500ml	bottles	1344	21540	Dec-13	0.35	470.4	Expired
4	Normal salin 0.9%	bottles	240	820H204029	Jul-13	0.35	84	Expired
5	Normal salin 1000ml	bottles	180	P983220E	Oct-12	0.35	63	Expired
6	Normal salin 500ml	bottles	60	P9A3238E	Oct-12	0.35	21	Expired
7	Ringer lactate 500ml	bottles	24	820H217015	Jul-13	0.42	10.08	Expired
8	Water for injection	ampls	1600	10334	Oct-13	0.0565	90.4	Expired
9	Benzyl penicillin 5m iu	vials	2450	11016588	Jan-14	0.16	392	Expired
10	Diazepam 5mg	ampls	300	FH108X	Jan-14	0.0637	19.11	Expired
11	Quinine 300mg	ampls	400	SF111X	Jan-14	0.141	56.4	Expired
12	Adrenalin 1mg/ml	ampls	50	TA0041111	Oct-13	0.1946	9.73	Expired
13	Adrenaline 1 mg/ml	ampls	30	TAA010111	Dec-12	0.1946	5.838	Expired
14	Chloramphenical 1g	vials	40	1140113	20/2013	0.4717	18.868	Expired
15	Lidocain 2%	vials	150	LGC11W1006	Feb-14	0.5245	78.675	Expired
16	Hydrocortison 100mg	vials	50	1160340	Jan-14	0.5245	26.225	Expired
17	Aminophyllin 25mg	ampls	20	TAA020111	Dec-12	0.077	1.54	Expired
18	Lab Reagents						0	
19	Immersion oil	bottles	5	1204659/4	Mar-14	8.87	44.35	Expired
20	Methanol	bottles	7	1204656/4	Mar-14	0.8	5.6	Expired
21	Acetone	bottles	7	1204660/4	Mar-14	4.06	28.42	Expired
22	Acetic acid	bottles	6	1204653/4	Mar-14	3.38	20.28	Expired
23	Turks solution	bottles	8	1104388/2	Mar-13	2.7	21.6	Expired
24	Acid alcohol	bottles	8	1204651/4	Mar-14	3.38	27.04	Expired
25	May grunwald stain	bottles	8	1104391/2	Mar-13	2.5	20	Expired
26	Lugols iodine	bottles	11	1204664/4	Mar-14	10	110	Expired
27	Giemsa stain	bottles	3	1105408/2	Apr-13	4.5	13.5	Expired
28	Carbol fuchsin	bottles	8	1105404/2	Apr-13	4.2	33.6	Expired
29	Crystal voilate	bottles	19	1104384/2	Mar-13	2.2	41.8	Expired
30	Hydrochloric acid	bottles	7	7372-1	Sep-13	7.5	52.5	Expired
31	Acetic acid	bottles	2	9666/7Y	Oct-13	3.38	6.76	Expired
32	Lugols iodine	bottles	10	10639-8	Oct-13	10	100	Expired
33	Urine pregnancy test	pcs	300	10F23	Jun-12	34	10200	Expired
34	Urine pregnancy test	pcs	600	2PG100927	Oct-12	34	20400	Expired
35	Meta bisulphate sodium	tin	1	111261/1	Oct-12	0.5	0.5	Expired
36	Tubes blood collection test	pcs	1400	4002	Jun-12	0.032	44.8	Expired
37	Methanol	bottles	1	111253/1	Oct-12	0.8	0.8	Expired
38	Micro slids	pcs	6000		Mar-12	0.4	2400	Expired
39	Microscope slids	pcs	39000	90753	Jun-11	1.2	46800	Expired
40	Microscope slids	pcs	11600	100476	Mar-12	1.2	13920	Expired
41	Sodium metabisulphate	tins	8	1204669/4	Jan-14	0.5	4	Expired
42	Neutralred	tins	7	1104381/4	Mar-13	8.7	60.9	Expired
43	Green vac tubes	tubes	600	4006	Oct-12		0	Expired
44	Vacutaier	tubes	1000	R2332	Feb-14		0	Expired
45	Acid alcohol	bottles	10	10639-3	Oct-13	3.38	33.8	Expired
46	Carbol fuchsin	bottles	16	10339-4	May-13	4.2	67.2	Expired
47	Immerssion oil	bottles	14	111262/1	Oct-12	8.84	123.76	Expired
48	Methalin blue	bottles	10	10677-9	May-13	2.2	22	Expired
49	Turks solution	bottles	1	112267/1	Nov-12	2.7	2.7	Expired
50	Acetone	bottles	8	10639-2	Oct-13	4.06	32.48	Expired
51	Acetic acid	bottles	6	10639-1	Oct-13	3.38	20.28	Expired
52	Giemsa solution	bottles	2	10639-7	Oct-13	4.5	9	Expired
53	OINTMENT + CREAM						0	
54	Lubricating gel	tubes	2	KG11002	Oct-13	1.43	2.86	Expired
55	Water for injection	ampls	3000	p-56	Aug-13	0.0565	169.5	Expired
56	Sulfadiazine 50g	tubes	100	CK10019	13-Oct	1.16	116	Expired
57	Compound Benzoic acid	tubes	41	GA11023	Jan-14	0.4	16.4	Expired
58	Anti-hoamorrhoids 15g	tubes	2	GL10012	Sep-13	1.73	3.46	Expired
59	Benzyl Benzoate 25%	bottles	15	MA11004	Feb-14	0.29	4.35	Expired
60	Calamin lotion	bottles	10	QB11004	Mar-14	0.4	4	Expired
61	Clotrimazole ointment	tubes	13	CD10016	Sep-13	0.31	4.03	Expired
62	Clotrimazole vaginal pessaries	tabs	120	ET101095	Sep-13	0.96	115.2	Expired
63	Chlorhexidine	bottles	5	OH11009	Feb-14	4.27	21.35	Expired
							\$96,758	

8. Maridi County Health Department: De-junking Period

Annex E: List of Expired/Damaged Pharmaceuticals in Central and Western Equatoria States

S/No	Tablets/capsules	Unit	quantity	Batch No	Expired date	Unit price	Total USD	Reason for De-junking
1	Artesunate +Amodiaquine Adult	blisters	250	SH111201	13-Dec	1.241	310.25	Expired
2	Artesunate+ Amodiaquine 6-13	blisters	475	SH111202	Dec-13	0.753	357.675	Expired
3	Artesunate +Amodiaquine 1-5	blisters	175	SH111203	Dec-13	0.4677	81.8475	Expired
4	Artesunate+ Amodiaquine 2-11 month	blisters	225	SH11104	Dec-13	0.244	54.9	Expired
5	Micronutient multi-minerals	tabs	12000	GL0401	Oct-13	0.0055	66	Expired
6	Multivitamine	Tabs	34000	ET110890	Oct-13	0.0055	187	Expired
7	Ferrous+Folic Acid 200.25mg	tabs	36000	FI-111/08	May-11	0.0031	111.6	Expired
8	Aluminium antacid	tabs	16000	8MG07	Jun-11	0.012	192	Expired
9	Praziquantel 600mg	tabs	5000	ET081007	Jun-11	4.5	22500	Expired
10	Co-trimoxazole 120mg	tabs	3000	IMJ39	Jan-14	0.0043	12.9	Expired
11	Co-trimoxazole 120mg	tabs	4000	ET1000676	May-13	0.0043	17.2	Expired
12	Albendazole 400mg	tabs	1000	ET101112	Oct-13	0.02	20	Expired
13	Mebendazole 100mg	tabs	500	ET080850	May-13	0.0032	1.6	Expired
14	Vitamine A 200.000IU	caps	100	0-0798B	Jan-10	0.028	2.8	Expired
15	Prednisolone 5mg	tabs	100	ET100786	Jul-13	0.01	1	Expired
16	Doxycycline 100mg	tabs	1000	DHA100501	May-13	0.02	20	Expired
17	Nicosamide 500mg	tabs	100	ET100664	May-13	0.027	2.7	Expired
18	Paracetamol 100mg	tabs	1000	ET080288	Jan-11	0.0025	2.5	Expired
19	Oral contraceptives 3cicle	tabs	5628	921A	Sep-13	1.18	6641.04	Expired
20	Nolevo levonorgestrel	tabs	142	CX312	May-13	0.45	63.9	Expired
21	Nalidixic Acid 500mg	tabs	3950	V2815	12/201	0.0566	223.57	Expired
22	Ranitidine 150mg	tabs	60	FRJ036A	Dec-12	0.01	0.6	Expired
23	ORS	Satch	5760	121	May-13	0.088	506.88	Expired
24	ORS	satch	300	225	Jun-13	0.088	26.4	Expired
	INJECTION/INFUSION						0	
1	Benzyl penicillin 5m iu	vials	350	100602588	Jun-13	0.16	56	Expired
2	Benzathin penicillin 5m iu	vials	350	906040	Jun-12	0.16	56	Expired
3	Lidocain 2%	vials	47	LGC11W1001	Feb-14	0.58	27.26	Expired
4	Promethazine 50mg	ampls	100	91002	Sep-12	0.08	8	Expired
5	Promethazine 50mg	ampls	130	110564	May-11	0.08	10.4	Expired
6	Pyridoxine 100mg	ampls	100	90702	Jul-12	1.11	111	Expired
7	Aminophylline25mg	ampls	30	TAA060710	Jun-12	0.077	2.31	Expired
8	Furosunide 10mg	ampls	100	EG905X	Sep-12	6.83	683	Expired
9	Ringer lactate 500ml	bottles	45	041304A	Sep-13	0.42	18.9	Expired
10	Normal salin 500ml	bottles	40	820M104017	Nov-13	0.35	14	Expired
11	Dextrose 5% 500ml	bottles	11	820M206010	Nov-13	0.35	3.85	Expired
	SYRUPS						0	
1	Amoxicillin125mg	bottles	12	EBD10256	Aug-13	0.6	7.2	Expired
2	Erythromycine 250mg	bottles	7	ED10220	Aug-13	3.85	26.95	Expired
3	Metronidazole 125mg	bottles	7	ED10212	Aug-13	0.71	4.97	Expired
4	Co-trimoxazole 240mg	bottles	5	EU0138	Aug-13	0.42	2.1	Expired
	OINTMENTS+CREAMS						0	
1	Silver sulfadiazine 50g	tubes	27	CK11012	Feb-14	1.16	31.32	Expired
2	Compound Benzoic Acid 25g	tubes	106	GA11022	Jan-14	0.4	42.4	Expired
3	Anti-haemorrhoids 15g	tubes	3	IG10010	Jul-13	1.73	5.19	Expired
4	Clotrimazole 20g	tubes	13	CD11006	Feb-14	0.31	4.03	Expired
5	Clotrimazole vaginal pessaries500mg	tabs	7200	ET00793	Jul-13	0.96	6912	Expired
6	Clotrimazole vaginal pessaries 500mg	tabs	60	ET110144	Jan-14	0.96	57.6	Expired
7	Clotrimazole vaginal pessaries 500mg	tabs	60	WL005	Nov-13	0.96	57.6	Expired
8	Calamine lotion 5%	bottles	918	985	Oct-13	0.73	670.14	Expired
9	Calamine lotion 15%	bottles	220	QB10009	Jul-13	0.4	88	Expired
10	Benzyl benzoate 25%	bottles	5	MA10013	May-13	0.29	1.45	Expired
	CHEMICALS REAGENTS						0	
1	Field stain B	bottles	6	1104383/2	Mar-13	2.66	15.96	Expired
2	Field stain A	bottles	6	605591	Mar-13	2.66	15.96	Expired
3	Crstal violet	bottles	1	1104384/2	Mar-13	2.2	2.2	Expired
4	Carbol fuchsim	bottles	1	1105404/2	Mar-13	4.2	4.2	Expired
5	Formadehyde 40%	bottles	2	1104387/2	Mar-13	10.63	21.26	Expired
6	Methanol	bottles	1	1106410/2	May-13	0.8	0.8	Expired
7	Acetic Acid	bottles	1	1105393/2	Apr-13	3.38	3.38	Expired
8	Acid Alcohol	bottles	1	1104380/2	Mar-13	16	16	Expired

Improving Storage Conditions in South Sudan

S/No	Tablets/capsules	Unit	quantity	Batch No	Expired date	Unit price	Total USD	Reason for De-junking
9	May grunwald	bottles	1	1104391/2	Mar-13	2.5	2.5	Expired
10	Giemasa stain	bottles	2	1105408/2	Apr-13	4.5	9	Expired
11	Lugols iodine	bottles	1	1104378/2	Mar-13	10	10	Expired
12	Turks solution	bottles	1	1104388/2	Mar-13	2.7	2.7	Expired
13	Immersin oil	bottles	2	111262/1	Dec-12	8.84	17.68	Expired
14	Water purification	tabs	14800	p-45	Jun-13	0.29	4292	Expired
	OTHERS						0	
1	Examination gloves	pairs	1700	012021001000X	Feb-16	0.0618	105.06	Damaged
2	Surgical gloves	pairs	500	003031001030E	Mar-26	0.214	107	Damaged
3	Condoms	pcs	21000	8H061	Jul-13	4.42	92820	Expired
4	Pregnate test	pcs	4250	0325HCG	Mar-13	34	144500	Expired
5	Syphillis test	pcs	50	2010122301	Dec-12	28	1400	Expired
6	Whitfield ointment 500g	tubes	19	1004126	Mar-13	0.4	7.6	Expired
							\$283,659	

9. Tambura County Health Department: De-Junking Period April 12, 2013

S/No	Items Description	UNIT	QUANTITY	BATCH NO	EXP DATE	Unit price	Total price	REASON FOR DE-JUNKING
TABLETS/CAPSULES								
1	Antacid 500mg	tabs	80000	MI10	Aug-13	0.004	320	expired
2	Albendazole	tabs	7000	7079	Jun-13	0.0116	81.2	expired
3	Water purification	tabs	96000	P-43	Aug-13	0.0246	2361.6	expired
4	Furosemide 40mg	tabs	3000	ET110858	Jun-13	0.0043	12.9	expired
5	Salbutamol 4mg	tabs	12000	ET091871	Jun-13	0.0037	44.4	expired
6	Multivitamin	tabs	34000	ET10990	Oct-13	0.0024	81.6	expired
7	Metronidazole 200mg	tabs	7000	1ML130	Jun-13	0.0036	25.2	expired
8	Niclosamide 500mg	tabs	100		Nov-12	0.0277	2.77	expired
9	Doxycycline 100mg	tabs	1000	MA51	Jun-13	0.0173	17.3	expired
10	Fansidar 500mg	tabs	1000		Jun-13	0.0258	25.8	expired
11	Prednisolone5mg	tabs	2000	ET110622	Jun-13	0.0095	19	expired
	INJECTION/IV FLUIDS						0	
1	Adrenaline 1mg	ampls	110	TA0061210	Nov-12	0.494	54.34	expired
2	Aminophylline 25mg	ampls	60	TA00111	May-12	0.0077	0.462	expired
3	Benzyl penicillin	vials	2400	110106688	Jun-13	0.0558	133.92	expired
4	Normal saline	bottles	480	21526	Dec-13	0.001	0.48	expired
5	Dextrose 5%	bottles	250	82771068	Jul-13	0.0006	0.15	expired
6	Water for injection	ampls	7200	10334	Oct-13	0.00264	19.008	expired
7	Dextrose 50%	bottles	28	820441084	Jul-13	0.0069	0.1932	expired
8	Ringer lactate	bottles	20	13FL072	Jun-12	0.0006	0.012	expired
9	Ringer lactate	bottles	72	41121	Jun-13	0.0006	0.0432	expired
10	Normal saline	bottles	2640	620902	01/20123	0.001	2.64	expired
	CHEMICAL REAGENTS						0	
1	Lugols iodine	bottles	13	10677-8	May-11	10	130	expired
2	Methanol	bottles	7	7371/21	Oct-12	0.8	5.6	expired
3	Acid alcohol	bottles	15	112263/1	Oct-12	3.38	50.7	expired
4	Carbol solution	bottles	26	106777/4	May-10	4.2	109.2	expired
5	May grunwalds staining	bottles	13	6326/5	Aug-12	2.5	32.5	expired
6	Crystal violet	tins	13	10677-5	May-13	2.2	28.6	expired
7	Turks blood counting	bottles	12	7371/4	May-12		0	expired
8	Immersion oil	bottles	21	10677-10	May-13	8.84	185.64	expired
9	Hydrochloric acid	bottles	7	-		7.5	52.5	damaged
10	Acetone acid	bottles	18	10677-2	May-13	3.38	60.84	expired
11	Sodium metabisulphite	bottles	3	-	-	0.5	1.5	damaged
12	Methylene blue	bottles	12	10677-9	May-13	2.2	26.4	expired
13	Buffer	tabs	1300	106973	Dec-11		0	expired
14	Neutral red	bottles	19	6326/3	Aug-12	8.7	165.3	expired
15	Turks solution	bottles	4	112267/1	Nov-12	2.7	10.8	expired
16	Acetic acid	bottles	29	1417/1y	-		0	damaged
17	Lugols iodine	bottles	4	1102315/1	Jan-13	10	40	expired
18	Blood lacet	pcs	10200	20070801	Aug-12	1.45	14790	expired
19	Blood lacet	pcs	7800	2081110	Nov-13	1.45	11310	expired
20	Blood collecting tubes	tubes	94	4004	Sep-12	0.032	3.008	expired
21	Blood collecting tubes	tubes	99	33339	May-12	0.032	3.168	expired
22	Blood collecting tubes	tubes	100	EB511171	Jul-12	0.032	3.2	expired

Annex E: List of Expired/Damaged Pharmaceuticals in Central and Western Equatoria States

S/No	Items Description	UNIT	QUANTITY	BATCH NO	EXP DATE	Unit price	Total price	REASON FOR DE-JUNKING
	OINTMENT/CREAMS						0	
1	Benzyl benzoate	bottles	7	108073	Dec-12	0.29	2.03	expired
2	Benzyl benzoate	bottles	10	907198	Sep-10	0.29	2.9	expired
	OTHERS						0	
1	Bandage 7.5cm	rolls	9120	150807	Aug-12	1.7	15504	expired
2	Bandage 10cm	rolls	3540	150807	Jul-10	1.7	6018	expired
3	Adhesive tape	rolls	556	1090572	Jul-10	0.5	278	expired
4	Syringes 5ml	pcs	100	3317	Jul-13	0.04	4	expired
5	Syringes 2ml	pcs	150	3317	7/2/2013	0.04	6	expired
6	Needles 22g	pcs	300	07/22102	Jul-10	0.04	12	expired
7	Needles 21g	pcs	400	07/22102	Jul-10	0.04	16	expired
8	Needles 23g	pcs	900	61002	Sep-11	0.04	36	expired
9	Needles 19g	pcs	900	62003	Sep-12	0.04	36	expired
10	Slides 76*26mm	pcs	9750	20070801	Aug-12	0.4	3900	expired
11	Paracheck	pcs	250	-	May-13	17	4250	expired
							\$60,277	

10. Ezo County Health Department: De-Junking Period June 12, 2013

S/NO	TABLETS/CAPS	UNIT	QUANTITY	BATCH NO	EXP DATE	Unit Price	Total	REASON FOR DE-JUNKING
1	Multivitamin	tabs	14000	ET110890	Oct-13	0.0024	34	expired
2	Niclosamide 500mg	tabs	300	ET090103	Dec-11	0.0277	8	expired
3	Water purification	tabs	20000	P-69	Jun-12	0.0246	492	expired
	CHEMICAL REAGENTS						-	
1	Carbol fuchsin 500ml	bottles	10	1105404/2	Apr-13	118.55	1,186	expired
2	Giemsa stain 500ml	bottles	11	1105408/2	Apr-13	115.6	1,272	expired
3	Crystal violet 500ml	bottles	9	1104384/2	Mar-13	2.2	20	expired
4	May grunwald 500ml	bottles	8	1104391/2	3/3/2013	2.5	20	expired
5	Lugols iodine 1L	bottles	13	1102315/1	Jan-13	111.8	1,453	expired
6	Acid alcohol 500ml	bottles	10	112263/1	Jan-13	16	160	expired
7	Acetone 1L	bottles	3	10639-2	Oct-13	4.06	12	expired
8	Methanol 1L	bottles	6	1106410/2	May-13	0.8	5	expired
9	Acetic acid 1L	bottles	3	1104371/2	Mar-13	3.38	10	expired
10	Hydrochloric acid	bottles	2	-	Sep-13	7.5	15	expired
11	Acetic acid glacial	bottles	3	10639-1	Oct-10	3.38	10	expired
12	Immersion oil 100ml	bottles	6	1105403/2	Apr-13	8.87	53	expired
13	Turks solution 100ml	bottles	6	1104388/2	Mar-13	2.7	16	expired
14	Blood collecting tubes	bottles	4	7372/4	Sep-12	0.032	0	expired
15	Adhesive tape	rolls	135	20TT0901	Nov-13	0.5	68	expired
16	Methylene blue 25g	bottles	6	112265/1	Nov-12	2.2	13	expired
17	Sodium metabisulphite	bottles	6	1104390/2	Mar-13	0.5	3	expired
19	Blood lacet	pcs	5800	20081110	Oct-13	2.12	12,296	expired
20	Caver slides	pcs	700	20081110	Nov-13	0.4	280	expired
21	Blood collecting tubes	pcs	490	EB511376	Sep-12	0.032	16	expired
22	Microscope slides	pcs	466	90753	Jun-11	1.2	559	expired
23	Microscope slides	pcs	265	100475	Jan-13	1.2	318	expired
	OINTMENT/CREAMS						-	
1	Lubricating gel	tubes	3	KG11002	Oct-13	0.71	2	expired
	INJECTION IV FLUIDS						-	
1	Water for injection	ampls	50	10334	Oct-13	0.0264	1	expired
2	Normal saline	bottles	1	20903	Jan-13	0.0006	0	expired
	OTHERS						-	
1	Bandage 10cm	rolls	350	150408	Apr-13	0.11	39	expired
2	Bandage 7.5cm	rolls	10	10906107	Jun-13	0.11	1	expired
							\$18,362	

ANNEX F: PICTURES OF DE-JUNKING FROM DIFFERENT COUNTIES



SIAPS team during de-junking in Yei 2014



Terekaka County medical store before and after de-junking