

GOVERNMENT OF SOUTHERN SUDAN  
MINISTRY OF HEALTH



Southern Sudan  
Essential Medicine List

2007



## Essential Medicines List

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## CONTENTS

Foreword	i
Acknowledgements	ii
List of contributors	iii
Introduction	1
Criteria for selection of Essential Medicines	3
Explanatory notes	4
Abbreviations	4
Revision Request Form	5
Specifications and Content..	6
Essential Medicines List	10
Index	24

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## FOREWORD

In the Government of Southern Sudan (GOSS) Health Policy, the Primary Health Care programme is the cornerstone of the delivery of quality health care to all our people. Medicines are an important aspect in ensuring the delivery of quality health care.

This first list for essential medicines is designed to cover the different patterns of diseases countrywide and all the different levels of health care. The list will provide a living and working tool to the Ministry of Health to ensure efficient and comprehensive supply of medicines to the people of Southern Sudan.

The Essential Medicines List will complement the treatment guidelines and other health related documents to standardize medical care.

The Ministry of health continues to develop and raise the awareness and training levels of our health care personnel at all levels. This List provides a vital link in that process and it is our hope that our service providers will use it as such for the improvement of service delivery at all our health facilities.

This List and other guidelines developed by the Ministry will continue to be updated over time to meet any evidence based recommendations arising from scientific research, modern developments, innovations, lessons learned or best practices that will be suitable to our context and deemed necessary to improve our (Primary) Health Care services.



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Dr. Joseph Manytuil Wejang  
**Minister of Health**  
**Government of Southern Sudan**

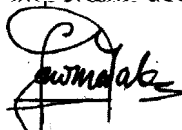
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## ACKNOWLEDGEMENTS

Following the conclusion of the comprehensive peace agreement between the government of the Sudan and the Sudan People's Liberation Movement/Army (SPLM/A) in Kenya on the 9<sup>th</sup> January, 2005, and the subsequent ending of the war in Southern Sudan, the Ministry of Health, Government of Southern Sudan has a great challenge to ensure equitable, sector wide, accelerated and expanded quality health care for all people in Southern Sudan, with a special focus and emphasis on women and children.

Thus the development of the Essential Medicines List is one of the efforts towards this mission, especially at this post-conflict period when there is high demand for knowledge on essential medicines needed for the different levels of health facilities in Southern Sudan. This document will also meet the demand to ensure appropriate health management using recommended essential medicines.

The Ministry of Health, Government of Southern Sudan would like to thank all the UN Agencies, international and national Non-Governmental Organisations in Southern Sudan, as well as the technical health personnel from various institutions who played important roles in the development and finalization of the Southern Sudan Essential Medicine List. The Ministry gratefully acknowledges the technical guidance and constructive comments provided by the numerous contributors whose names are listed in this document. Profound gratitude and thanks are also addressed to the agencies that supported the Ministry financially to develop and process this important document.



D. Majok Yak Majok  
Under Secretary  
Ministry of Health  
Government of Southern Sudan

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## LIST OF CONTRIBUTORS

<b>Name</b>	<b>Institution/Affiliation</b>
Agoth Manyang	MOH, GOSS
Arkangelo Mona	Merlin
Asare Joseph	Psychiatrist
Atem Nathan Riak.....	MOH
Bannenberg Wilbert	ECT
Besrat Hagos	WHO
Boo Tom	CDC
Buddingh Carla	MOH/GOSS
Buddingh Henk	CEAS
Burslem Fiona .	Gynaecologist
Buwa Dragudi	UNFPA
Collins Andrew .	Malaria Consortium
Cometto Giorgio ..	WHO
Congdon Robert	Kijabe Hospital
De Jong Joop	University of Amsterdam
Deyment Wendy	Medair
Feleke Teshome	Concern Worldwide
Franco Jose Ramon	Malteser
Graaf Peter	WHO
Haarsager Mary	CEAS
Hopkins Adrian ..	CBM
Hughes Skye..	Malteser
Isika Aham	UNFPA
Jabe Victoria....	MOH
Jespersen Janice	World Relief
Jeylani Mahmoud	WHO
Keus Kees	MSF

---

Lomoro Olivia	MOH
Monywiir Arop	MOH
Morch Edith	UNICEF
Muita Mugo ..	CDC
Mwanika Andrew ..	Dentist
Ndzi Jonathan	UNFPA
Neitzert Barbara	PSF
Ochol Duncan	WHO
Okoro Jones	UNICEF
Omer Nadia	PSF
Onsarigo Alice	Carter Foundation
Ouma Cyprian	Tearfund
Partick Abok	WHO
Patel Vaishalee	Pharmacist
Penny Shareen ..	Tearfund
Richard Igu Keri...	MOH
Richer Michaleen .	WHO
Ruiz Jose Antonio	WHO
Rumunu John...	MOH
Samson P Baba .	MOH
Seaman Jill ..	WHO
Sharland Roger..	REAP
Sindani Sebit ..	WHO
Snider Glena	Carter Foundation
Stanfield Paget	Medical Editor
Subeck Pius ..	MOH
Thabo Othwonth	MOH
Tornbe Martin	Advisor/EDLIZ
Toure Brigitte .	UNICEF
Ventevogel Peter	Healthnet TPO

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## INTRODUCTION

The Ministry of Health of Southern Sudan is making every effort to streamline the pharmaceutical and medical management systems by formulating policies and policy documents in all relevant fields applicable.

The Ministry is proud to present the first edition of the Essential Medicines List (EML) for Southern Sudan. The EML has been developed on the basis of the WHO Model List (14<sup>th</sup> Edition) with focus on all levels of health care facilities and also to provide an adequate, efficient and comprehensive medicine supply to the population of Southern Sudan.

The purpose of developing the EML is to enhance centralization of the activities in the pharmaceutical sector as well as to enable rational procurement, supply and usage of medicines in Southern Sudan. The implementation of the EML will ensure standardization of medicine usage countrywide taking into consideration the aspects of quality, safety and efficacy of medicines supplied.

The following criteria were considered while developing the EML:

- 0 Common Therapeutic Categories - Catering for the most common disease states prevailing in the Southern Sudan context.
- 0 Pharmaceutical Specifications - This applies the concept of Essential medicines as defined by WHO whereby the medicines are listed according to their international nomenclature (INN) or more commonly known as generic names. The EML covers the most common dosage forms and formulations.
- 0 Other conditions - Packaging and storage of pharmaceuticals form a critical part of medicines management, therefore cold storage requirements and dosage forms have been indicated to allow for efficient ordering and logistics management.

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It is the intent of the Ministry of Health to implement the EML among other policies and guidelines for high quality medicines management and rationalization of medicines use in the public sector.

The EML will also serve as a reference document for purposes of legislation, staff development and management improvement to ensure regular safe supply of effective medicines at affordable prices and of acceptable quality to all sectors of health care.

Therefore all health workers, including physicians, clinical officers, nurses, pharmacists, midwives and dentists, are encouraged to familiarize themselves with the national policies and to utilize the EML to optimize the quality of health care provided to the people of Southern Sudan.

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## CRITERIA FOR SELECTION OF ESSENTIAL MEDICINES

An advisory committee of various medical and pharmaceutical backgrounds contributed to define and establish the EML. The following criteria were used as the fundamental basis for consideration and implementation during the selection of medicines for the Essential Medicines List (EML) of Southern Sudan:

- a) Essential Medicines are those that satisfy the needs of the majority of the population.
- b) There should be adequate data supporting their efficacy and safety.
- c) The medicines are essential if they are used routinely and based on their performance in routine practice.
- d) The committee critically assessed whether the medicine should be in the essential list. There were some items that did not satisfy the criteria for inclusion into the Essential Medicines List although they may be needed in special circumstances. These items can be incorporated into the list at a later stage when the Pharmacy Policy and Act and schedules of medicines have been defined by the Ministry of Health.
- e) It is the opinion of the team that all essential medicines should be non-patented. The main reason for this is that patented brand products are often enormously expensive and yet have no added advantage over the generic drugs. However where a generic does not exist, the branded product will be acceptable.

The Essential Medicines List for Southern Sudan is a result derived from these criteria. The objective is to create awareness of the need for rational medicine use and it can be utilised by all levels of health care in Southern Sudan. Hence the list indicates the medicines that should be available at the various levels of health care facilities.

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## EXPLANATORY NOTES

### Levels of health care facilities

<b>PHCU</b>	Primary Health Care <b>Unit</b>
<b>PHCC</b>	Primary Health Care Centre
<b>HOSP</b>	Hospitals D County Hospital D State Hospital
<b>REF</b>	Referral Hospitals providing specialised tertiary health care

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### ABBREVIATIONS

1. « \* )} Represents cold chain (items should be stored at temperatures between 2 - 8°C)

{{\*\*}} Availability of this item is dependent on the availability of a proper working cold chain.

#### 2. Pharmaceutical Abbreviations:

<b>Inj</b>	Injection
<b>Pess</b>	Pessary
<b>Supp</b>	Suppository
<b>Tabs</b>	Tablets
<b>Blister/Combi</b>	Blister packs of combined drugs
<b>Susp.</b>	Suspension
<b>Caps.</b>	Capsules
<b>Chew ..</b>	Chewable
<b>Solu.</b>	Solution
<b>FDC</b>	Fixed Dose Combinations
<b>MDT</b>	Multi Drug Therapy

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**ESSENTIAL MEDICINES LIST REVISION REQUEST FORM**

Facility requesting the change:

PHCU  PHCC  HOSP  REF

TYPE OF REQUEST:

ADDITION  DELETION  CHANGE

Generic Name:

Dosage Form & Strength:

Best **Known Brand Names & Manufacturers:**

1)

2)

For ADDITIONS, what similar acting medicines are now on Essential Medicines List?

1)

2)

State reasons for addition, deletion or change of item in the EML. For ADDITIONS, please explain advantage of proposed medicine/s over similar-acting medicines listed above.

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## SPECIFICATIONS and CONTENTS

The EML is classified into therapeutic categories as defined by the World Health Organization (WHO).

1. **Anaesthetics**
  - 1.1. General Anaesthetics and Oxygen
  - 1.2. Local Anaesthetics
  - 1.3. Preoperative medication and sedation for short term procedures
  
2. **Analgesics. Antipyretics. Non-steroidal Anti-inflammatory Medicines (NSAIMs) and Medicines to Treat Gout**
  - 2.1. Non-opioids and non-steroidal anti-inflammatory medicines (NSAIM's)
  - 2.2. Opioid analgesics
  - 2.3. Medicines to treat Gout
  
3. **Anti-allergics and Medicines Used in Anaphylaxis**
  
4. **Antidotes and Other Substances Used in Poisonings**
  - 4.1. Non-specific
  - 4.2. Specific
  
5. **Anti-convulsants / Anti-epileptics**
  
6. **Anti-infective Medicines**
  - 6.1. **Anthelmintics**
    - 6.1.1. Intestinal anthelmintics
    - 6.1.2. Antifilarials
    - 6.1.3. Antischistosomes and antitrematode medicines
  - 6.2. **Antibacterials**
    - 6.2.1. Beta Lactam medicines
    - 6.2.2. Other anti bacteria ls
    - 6.2.3. Antileprosy medicines
    - 6.2.4. Antituberculosis medicines
  - 6.3. **Antifungal Medicines**
  - 6.4. **Antiviral Medicines**
    - 6.4.1. Antiherpes medicines
    - 6.4.2. Antiretrovirals
      - 6.4.2.1. Nucleoside reverse transcriptase inhibitors
      - 6.4.2.2. Non-nucleoside reverse transcriptase inhibitors
      - 6.4.2.3. Protease inhibitors
    - 6.4.3. Fixed Dose Combination Anti-retroviral medicines

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## SPECIFICATIONS and CONTENTS

- 6.5. Antiprototoal Medicines
  - 6.5.1. Antiamoebic and anti giardiasis medicines
  - 6.5.2. Antileishmaniasis medicines
  - 6.5.3. Antimalarial medicines
    - 6.5.3.1. For a *curative* treatment
    - 6.5.3.2. For Prophylaxis
  - 6.5.4. Antitrypanosomal medicines
    - 6.5.4.1. African trypanosomiasis
  
- 7. Antimigraine Medicines
  
- 8. Antineoplastic and Immunosuppressive medicines
  - 8.1. Hormones and anti-hormones
  - 8.2. Immunosuppressive medicines
  - 8.3. Cytotoxic medicines
  
- 9. Antiparkinsonism Medicines
  
- 10. Medicines Affecting the Blood
  - 10.1. Antianaemia medicines
  - 10.2. Medicines affecting coagulation
  
- 11. Blood products and Plasma Substitutes
  - 11.1. Plasma substitutes
  - 11.2. Plasma fractions for specific use
  
- 12. Cardiovascular Medicines
  - 12.1. Antianginal medicines
  - 12.2. Antiarrhythmic medicines
  - 12.3. Anti-hypertensive medicines
  - 12.4. Medicines used in heart failure
  - 12.5. Diuretics
  - 12.6. Antithrombotic medicines
  
- 13. Dermatological Medicines (Topical)
  - 13.1. Antifungal medicines
  - 13.2. Anti-infective medicines
  - 13.3. Anti-inflammatory and anti-pruritic medicines
  - 13.4. Medicines affecting skin differentiation and proliferation
  - 13.5. Scabicides and pediculicides

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## SPECIFICATIONS and CONTENTS

### 14. Diagnostic Agents

- 14.1. Ophthalmic medicines
- 14.2. Radio-contrast media

### 15. Disinfectants and Antiseptics

- 15.1. Antiseptics
- 15.2. Disinfectants

### 16. Gastrointestinal Medicines

- 16.1. Antacids and other anti-ulcer medicines
- 16.2. Antiemetic medicines
- 16.3. Laxatives
- 16.4. Medicines used in diarrhoea
  - 16.4.1. Oral lilehydration
  - 16.4.2. Zinc Supplement
  - 16.4.2. Antidiarrhoeal (symptomatic) medicines in adults

### 17. Hormones. Other Endocrine medicines and Contraceptives

#### 17.1. Contraceptives

- 17.1.1. Oral hormonal contraceptives
- 17.1.2. Injectable hormonal contraceptives
- 17.1.3. Intrauterine devices
- 17.1.4. Barrier.methods
- 17.2. Insulin and other antidiabetic agent
- 17.3. Ovulation inducers
- 17.4. Progestogens
- 17.5. Thyroid hormones and anti-thyroid medicines

### 18. Immunologicals

- 18.1. Diagnostic agents
- 18.2. Sera and immunoglobulins
- 18.3. Vaccines
  - 18.3.1. For universal immunization
  - 18.3.2. For specific groups of individuals

### 19. Muscle Relaxants (Peripherally-acting) and cholinesterase inhibitors

### 20. Ophthalmological Preparations

- 20.1. Anti-infective agents
- 20.2. Anti-inflammatory agents
- 20.3. Local anaesthetics

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## SPECIFICATIONS and CONTENTS

- 20.4. Miotics and antiglaucoma medicines
- 20.5. Mydriatics
  
- 21. **Oxytocics and Antioxytocics**
  - 21.1. Oxytocics
  
- 22. **Peritoneal Dialysis Solution**
  
- 23. **Psychotherapeutic Medicines**
  - 23.1. Medicines used in psychotic disorders
  - 23.2. Medicines used in mood disorders
    - 23.2.1. Medicines used in depressive disorders
  - 23.3. Medicines used in generalized anxiety and sleep disorders
  
- 24. **Medicines Acting on the Respiratory Tract**
  - 24.1. Antiashtmatic and medicines for chronic obstructive pulmonary diseases
  - 24.2. Antitussive medicines for treatment of cough
  
- 25. **Solutions correcting water, electrolyte and acid-based disturbances**
  - 25.1. Parenteral
  - 25.2. Miscellaneous
  
- 26. **Vitamins and minerals**

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSP	REF
<b>1. Anaesthetics</b>					
<b>1.1 General Anaesthetics and Oxygen</b>					
Halothane inhalation	VolatileLiquid			X	X
Ketamine 50mg	Injection			X	X
Oxygen inhalation (medical gas)	Gas			X	X
Thiopental 0.5g	Powder for Inj.			X	X
<b>- 1.2.-Local Anaesthetics - - - - -</b>					
Bupivacaine 0.5% (hydrochloride)	Injection			X	X
Lidocaine 1% (hydrochloride)	Injection		X	X	X
Lidocaine 2% + Adrenaline 1:200 000	Injection			X	X
<b>1.3. Preoperative Medication and Sedation for Short-term Procedures</b>					
Atropine 1mg	Injection		X	X	X
Diazepam 5mg/ml	Injection		X	X	X
Morphine 10mg	Injection			X	X
<b>2. Analgesics, Antipyretics, Non-Steroidal Anti-Inflammatory Medicines (NSAIM's) and Medicines Used to Treat Gout</b>					
<b>2.1. Non-Opioids and Non-Steroidal Anti-Inflammatory Medicines (NSAIM's)</b>					
Acetylsalicylic acid 500mg	Tab	X	X	X	X
Diclofenac sodium 50mg	Tab		X	X	X
Ibuprofen 200mg	Tab		X	X	X
Paracetamol 125mg. (paediatric)	Tab	X	X	X	X
Paracetamol 120mg/5ml	Syrup	X	X	X	X
Paracetamol 500mg. (adult)	Tab	X	X	X	X
<b>2.2. Opioid Analgesics</b>					
Codeine 30mg	Tab		X	X	X
Morphine 10mg/5ml	Oral Solution			X	X
Pethidine 50mg.	Injection			X	X
Tramadol 50mg	Caps			X	X
Tramadol 50mg/ml	Injection			X	X
<b>2.3. Medicines to Treat Gout</b>					
Allopurinol 300mg	Tab			X	X
Colchicine 0.5mg	Tab			X	X
Probenecid 500mg	Tab			X	X
Probenecid 100mg/5ml	Injection			X	X

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSP	REF
<b>3. Antiallergics And Medicines Used in Anaphylaxis</b>					
Adrenaline 1mg (Epinephrine)	Injection		X	X	X
Chlorpheniramine 4mg	Tabs		X	X	X
Dexamethasone 4mg	Injection			X	X
Hydrocortisone 100mg, (Sodium Succinate)	Powder for Inj.		X	X	X
Prednisolone 5mg	Tabs		X	X	X
<b>4. Antidotes And Other Substances Used In Poisonings</b>					
<b>4.1. Non-specific</b>					
Charcoal, activated, 125mg	Tabs			X	X
<b>4.2. Specific</b>					
Atropine 1mg	Injection			X	X
Calcium Gluconate 100mg/ml	Injection			X	X
Naloxone hydrochloride 400 mcg/ml	Injection			X	X
<b>5. Anticonvulsants / Anti-epileptics</b>					
Carbamazepine 200mg	Tabs			X	X
Magnesium Sulphate 500mg/ml	Injection			X	X
Phenobarbital 30mg	Tabs		X	X	X
Phenytoin 100mg	Tabs			X	X
Valproic acid 200mg	Tabs			X	X
<b>6. Anti-infective Medicines</b>					
<b>6.1. Anti-helminthics</b>					
<b>6.1.1. Intestinal Anti-helminthics</b>					
Albendazole 400mg	Oral Suspension		X	X	X
Albendazole 400mg	Chewable Tabs		X	X	X
Mebendazole 500mg	Chewable Tabs	X	X	X	X
Praziquantel 600mg	Tabs		X	X	X
<b>6.1.2. Anti-filarials</b>					
Diethylcarbamazine 50mg	Tabs			X	X
Ivermectin 3mg	Tabs		X	X	X
Albendazole 400mg	Tabs.Chew.	X	X	X	X
<b>6.1.3. Antischistosomes and Antitrematode Medicines</b>					
Praziquantel 600mg	Tabs		X	X	X

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PH CC	HOSF	REF
<b>6.2. Antibacterials</b>					
<b>6.2.1. Beta Lactam Medicines</b>					
Amoxicillin 125mg/5ml	Powder for Susp.	X	X	X	X
Amoxicillin 250mg	Scored Tabs	X	X	X	X
Amoxicillin 500mg	Tabs			X	X
Amoxicillin 500mg + Clavulanic acid 125mg	Tabs			X	X
Ampicillin 1gm	Powder for Inj.		X	X	X
Benzathine Penicillin 2.4 MIU	Powder for Inj.		X	X	X
Benzyl Penicillin 1MIU	Powder for Inj.		X	X	X
Ceftriaxone 500mg, injection powder	Powder for Inj.		X	X	X
Cloxacillin 250mg	Caps		X	X	X
Cloxacillin 500mg	Powder for Inj.			X	X
Procaine Benzyl Penicillin (1MIU)	Powder for Inj.		X	X	X
<b>6.2.2. Other Antibacterials</b>					
Azithromycin 250mg	Caps	X	X	X	X
Cefixime 400mg	Tabs		X	X	X
Chloramphenicol 1Gm, (Sodium Succinate)	Powder for Inj.		X	X	X
Chloramphenicol 250mg	Caps		X	X	X
Chloramphenicol 150 mg/5ml (Palmitate)	Oral Susp.		X	X	X
Ciprofloxacin 250mg	Scored Tabs,	X	X	X	X
Doxycycline 100mg	Caps		X	X	X
Erythromycin 250mg	Tabs		X	X	X
Gentamycin 40mg/ml	Injection		X	X	X
Metronidazole 100mg/5ml	Oral Susp.	X	X	X	X
Metronidazole 200mg	Scored Tabs,	X	X	X	X
Metronidazole 500mg in 100ml	Injection		X	X	X
Nalidixic acid 500mg	Tabs			X	X
Sulphamethoxazole 100mg + Trimethoprim 20mg (paediatric)	Tabs	X	X	X	X
Sulphamethoxazole 200mg + Trimethoprim 40mg / 5ml suspension	Oral Susp,	X	X	X	X
Sulphamethoxazole 400mg + Trimethoprim 80mg	Tabs	X	X	X	X

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSF	REF
<b>6.2.3. Antileprosy Medicines</b>					
Medicines used in the treatment of leprosy should never be used except in combination. Colour coded MDT blister packs containing standard two or three medicines are supplied by WHO free of charge					
Dapsone 25mg	Tab		X	X	X
Dapsone 50mg	Tab.		X	X	X
Dapsone 100mg	Tab.		X	X	X
Clofazirine 50mg	Caps.		X	X	X
Clofazimine 100mg	Caps.		X	X	X
Rifampicin 150mg	Tab		X	X	X
Rifampicin 300mg	Tab		X	X	X
<b>6.2.4. Antituberculosis Medicines</b>					
Ethambutol 100mg	Tab		X	X	X
Ethambutol 400mg	Tab.				
Isoniazid 100mg	Tab		X	X	X
Isoniazid 300mg	Tab		X	X	X
Pyrazinamide 400mg	Tab		X	X	X
Rifampicin 150mg	Caps		X	X	X
Rifampicin 150mg + Isoniazid 75mg (2FDC)	Tab	X	X	X	
Rifampicin 150mg + Isoniazid 150mg + Pyrazinamide 500mg (3FDC)	Tab		X	X	X
Rifampicin 150mg + Isoniazid 75mg + Pyrazinamide 400mg(3FDC)	Tab		X	X	X
Rifampicin 150mg + Isoniazid 75mg + Pyrazinamide 400mg.	Tab		X	X	X
Ethambutol 275mg (4FDC)	Tab		X	X	X
Streptomycin 1gm	Powder for Inj.		X	X	X
<b>- - - 6.3.- Anti-fungal Medicines - - -</b>					
Clotrimazole 500rhg	Pess	X	X	X	X
Griseofulvin 125mg	Tab		X	X	X
Griseofulvin 500mg	Tab		X	X	X
Nystatin 100000 IU/ml	Oral Susp.		X	X	X
Nystatin 100 000 IU	Tab		X	X	X
<b>6.4. Anti-viral Medicines</b>					
<b>6.4.1. Anti-herpes Medicines</b>					
Acyclovir 200mg	Tab				X

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSP	REF
6.4.2. Anti-retroviral Medicines (ARVs)					
The National HIV policy recommends a combination of three or four drugs simultaneously. In general the ARVs have numerous adverse effects and patients receiving these drugs require careful monitoring by adequately trained health professionals. There is a minimum requirement for anti-retrovirals to be available for patient use in a health care facility. The following basic infrastructure must be in place: A fully functional laboratory with trained personnel, a VCT centre with pre and post testing counselling facilities and sufficient medical means to handle the administration of ARV's and adverse reactions in patients on ARV therapy.					
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6.4.2.1 . Nucleoside Reverse Transcriptase Inhibitor					
Abacavir (ABC) 300mg	Tabs			X	X
Abacavir (ABC). 100mg/5ml	Oral Solu.			X	X
Didanosine (ddl) 25mg	Chewable Tabs			X	X
Didanosine (ddl)100mg	Chewable Tabs			X	X
Lamivudine (3TC) 50mg/5ml	Oral Solu.			X	X
Lamivudine (3TC) 150mg	Tabs			X	X
Stavudine (d4T) 30mg	Caps			X	X
Stavudine (d4T) 40mg	Caps			X	X
Stavudin (d4T) 5mg/5ml	Oral sol.			X	X
Idovudine (IDV or AZT) 100mg	Tabs			X	X
Idovudine (ZDV or AZT) 300mg	Tabs			X	X
Zidovudin (ZDV or AZT). 250mg	Caps			X	X
Idovudine (ZDV or AZT) 50 mg/5ml	Oral Susp. / Syrup			X	X
6.4.2.2. Non-Nucleoside Reverse Transcriptase Inhibitors					
Efavirenz (EFV or EFZ) 50mg	Tabs/Caps			X	X
Efavirenz (EFV or EFI) 200mg	Tabs/Caps			X	X
Efavirenz (EFV or EFI) 150mg/5ml	Oral Sol.*			X	X
Nevirapine 200mg (NVP)	Tabs			X	X
Nevirapine 50mg/5ml	Oral Susp.			X	X

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSP	REF
6.4.2.3. Protease Inhibitors					
Indinavir (IOV) 400mg	Tabs*			X	X
Ritonavir 100mg	Tabs*			X	X
Lopinavir 133.3mg + Ritonavir 33.3mg (LPV/r)	Tabs*			X	X
Nelfinavir 250mg	Tabs*			X	X
Nelfinavir 50mg/gm	Powder for Oral Susp.*			X	X
Saquinavir 200mg	Tabs*			X	X
Saquinavir 200mg + Ritonavir 33.3mg	Tabs*			X	X
-----	-----	-----	-----	-----	-----
6.4.3 Fixed Dose Combination Anti-retroviral Medicines					
Stavudine + Lamivudine + Nevirapine 30mg + 150mg + 200mg	FOC Tabs			X	X
Stavudine +Lamivudine + Nevirapine 40mg + 150mg + 200mg	FOC Tabs			X	X
Stavudine + Lamivudine 30mg + 150mg	FOCTabs			X	X
Stavudine + Lamivudine 40 mg +150 mg	FOC Tabs			X	X
-----	-----	-----	-----	-----	-----
6.5. Antiprotozoal medicines					
-----	-----	-----	-----	-----	-----
6.5.1. Antiamoebic And Anti-giardiasis Medicines					
Metronidazole 200mg	Tabs	X	X	X	X
Tinidazole 500mg	Tabs		X	X	X
-----	-----	-----	-----	-----	-----
6.5.2. Anti-leishmaniasis Medicines					
Sodium Stibogluconate 100mg/ml	Injection			X	X
Paromomycin 500mg/ml injection	Injection			X	X
Miltefosine 10mg	Caps.			X	X
Miltefosine 50mg	Caps.			X	X
-----	-----	-----	-----	-----	-----
- - - -6.5.3. Ant-malarial-Medicines - - -					
-----	-----	-----	-----	-----	-----
- - - - -6.5.3. 1- For Curative Treatment					
Artesunate 50mg + Amodiaquine 153mg tablet	Blister/Combi.	X	X	X	X

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSP	REF
Artesunate 50mg	Rectal Caps.	X			
Artesunate 200mg	Rectal Caps.	X			
Artemether 20mg + Lumefantrine 120mg (Co-artem)	Tabs		X	X	X
Quinine 300mg/ml	Injection		X	X	X
Quinine 300mg	Tabs		X	X	X
<b>6.5.3.2. For Intermittent Presumptive Therapy</b>					
Sulphadoxine + Pyrimethamine 500mg + 25mg	Tabs	X	X	X	X
<b>6.5.4. Anti-trypanosomal Medicines</b>					
<b>6.5.4.1. African Trypanosomiasis</b>					
Eflornithine 200mg	Injection			X	X
Melarsoprol 3.6%	Injection			X	X
Pentamidine 300mg. (isetionate)	Powder for Inj.		X	X	X
<b>7. Anti-Migraine Medicines</b>					
Acetylsalicylic acid 500mg	Tabs	X	X	X	X
Paracetamol 500mg	Tabs	X	X	X	X
Ergotamine Tartarate 1mg	Tabs		X	X	X
<b>8. Antineoplastic and Immunosuppressive Medicines</b>					
<b>8.1. Hormones And Anti-Hormones</b>					
Dexamethasone 4mg	Injection			X	X
Hydrocortisone 100mg.	Powder for Inj.		X	X	X
Prednisolone 5mg	Tabs		X	X	X
<b>8.2. Immunosuppressive Medicine</b>					
Azathioprine 50mg	Tabs			X	X
Ciclosporin 25mg	Caps			X	X
<b>8.3. Cytotoxic Medicines</b>					
Actinomycin-D 500mcg	Injection			X	X
Busulphan 2mg	Tabs			X	X
Cyclophosphamide 200mg	Powder for Inj.			X	X
Cyclophosphamide 500mg	Powder for Inj.			X	X
Cyclophosphamide 50mg	Tabs			X	X
Cytosine Arabinoside (Cytarabine HCl) 100mg	Powder for Inj.			X	X
Doxorubicin Hydrochloride 50mg	Powder for Inj.			X	X

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSP	REF
Fluorouracil 250mg	Injection			X	X
Folinic acid 15mg	Tabs			X	X
Methotrexate 50mg	Injection			X	X
Vincristine Sulphate 1mg	Injection			X	X
9. Anti-Parkinsonism Medicines					
Biperiden 2mg	Tabs			X	X
10. Medicines Affecting the Blood					
10.1. Anti-Anaemia Medicines					
Ferrous Sulphate 200mg + Folic acid 0.25mg	Tabs	X	X	X	X
Folic acid 5mg	Tabs		X	X	X
10.2. Medicines Affecting Coagulation					
Heparin sodium 5000 IU/ml	Injection			X	X
Phytomenadione 10 mg/ml (Vit. K)	Injection			X	X
Warfarin 2mg	Tabs				X
Warfarin 5mg	Tabs				X
11. Blood products and Plasma Substitutes					
11.1. Plasma Substitutes					
Dextran 70 (6%)	Parenteral Solution			X	X
11.2. Plasma Fractions For Specific Use					
Factor IX complex (coagulation factors II. VII. IX. X) concentrate	Powder for Inj.				X
12. Cardiovascular Medicines					
12.1. Anti-Anginal Medicines					
Glycerin Trinitrate 500mcg.	Sublingual Tabs		X	X	X
12.2. Anti-Arrhythmic Medicines					
Atenolol 50mg	Tabs			X	X
Digoxin 62.5mcg	Tabs			X	X
Lidocaine 20mg/ml(Hydrochloride)	Injection			X	X
Procainamide 100mg/ml (Hydrochloride)	Injection			X	X
Verapamil 2.5mg/ml(Hydrochloride)	Injection			X	X
Verapamil 40mg	Tabs.			X	X
12.3. Anti-Hypertensive Medicines					
Atenolol 50mg	Tabs			X	X
Captopril 12.5mg	Tabs			X	X
Hydralazine 25mg	Tabs			X	X
Hydralazine 20mg	Injection			X	X
Hydrochlorothiazide 25mg	Tabs			X	X

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSF	REF
Nifedipine 10mg	Cap			X	X
Nifedipine 20mg	Tab			X	X
-----					
12.4. Medicines Used In Heart Failure					
Digoxin 62.5mcg	Tab			X	X
Furosemide 40mg	Tab		X	X	X
Furosemide 10mg/ml	Injection		X	X	X
-----					
12.5. Diuretics					
Amiloride 5mg(Hydrochloride)	Tab.			X	X
Furosemide 40mg	Tab		X	X	X
Furosemide 10mg/ml	Injection		X	X	X
Hydrochlorothiazide 25mg	Scored Tab.			X	X
Mannitol 10%	Injection			X	X
Potassium Chloride, 600mg	Tab			X	X
Spironolactone, 25mg	Tab			X	X
-----					
12.6. Anti-Thrombotic Medicines					
Acetylsalicylic acid 100mg	Tab			X	X
-----					
13. Dermatological Medicines (Topical)					
-----					
13.1. Antifungal Medicines					
Benzoic acid 6% + Salicylic acid 3% (Whitfield's)	Ointment	X	X	X	X
Clotrimazole 1%	Cream		X	X	X
-----					
13.2. Anti-Infective Medicines					
Potassium Permanganate 1:10,000	Solution	X	X	X	X
Silver Sulphadiazine 1%	Cream	X	X	X	X
-----					
13.3. Anti-Inflammatory And Anti-pruritic Medicines					
Betamethasone 0.1 %	Ointment				X
Calamine lotion	Lotion	X	X	X	X
Hydrocortisone 1%	Ointment		X	X	X
Salicylic acid 2%	Ointment			X	X
Zinc oxide, 15%	Ointment		X	X	X
-----					
13.4. Medicines Affecting Skin Differentiation and Proliferation					
Coal tar 5% + Salicylic acid 2%	Solution			X	X
Podophyllin resin paint, 15%	Solution			X	X
-----					
13.5. Scabicides And Pediculicides					
Benzyl Benzoate Lotion 25%	Lotion	X	X	X	X
-----					
14. Diagnostic Agents					
-----					
14.1. Ophthalmic Medicines					

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSP	REF
Fluorescein 1% eye drops (sodium salt)	Drops			X	X
	Drops			X	X
14.2. Radiocontrast Media Barium sulphate	Aqueous Susp.				X
15. Disinfectants and Antiseptics					
15.1. Antiseptics					
Chlorhexidine 0.3% + Cetrimide 3%	Solution	X	X	X	X
Chlorhexidine 15% + Cetrimide 1.50%	Solution		X	X	X
Gentian violet crystals. 25gms	Powder	X	X	X	X
Polyvidone iodine 10%	Solution	X	X	X	X
15.2. Disinfectants					
Sodium Dichloroisocyanurate 2.5gm (NADCC)	Tabs			X	X
16. Gastrointestinal Medicines					
16.1. Antacids And Other Anti-Ulcer Medicines					
Aluminium Hydroxide 500mg	Tabs	X	X	X	X
Ranitidine 150mg	Tabs			X	X
16.2. Anti-emetic Medicines					
Promethazine 25mg	Tabs		X	X	X
Promethazine 25mg/ml	Injection		X	X	X
16.3. Laxatives					
Senna	Tabs			X	X
16.4. Medicines Used in Diarrhoea					
16.4.1 . Oral Re-hydration					
Oral re-hydration salts (glucose 13.5g/l: Sodium chloride 2.6g/l: - Potassium chloride 1.5g/l: - Trisodium citrate dihydrate 2.9g/l)	Powder for Oral Solution	X	X	X	X
16.4.2. Zinc Supplement					
Zinc Sulphate 20mg	Tabs	X	X	X	X
16.4.3. Anti-Diarrhoeal (Symptomatic) Medicines in Adults					
Codeine 30mg	Tabs			X	X
Loperamide 2mg	Tabs			X	X

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSP	REF
17. Hormones, Other Endocrine Medicines and Contraceptives					
17.1. Contraceptives					
17.1.1. Oral Hormonal Contraceptives					
Ethinylestradiol + Levonorgestrel, 30 micrograms + 150 micrograms	Tabs		X	X	X
Ethinylestradiol + Norethisterone, 35 micrograms + 1.0mg	Tabs		X	X	X
Levonorgestrel 750mg	Tabs		X	X	X
17.2.2. Injectable Hormonal Contraceptives					
Medroxyprogesterone acetate, depot injection, 150mg/ml	Depot Injection		X	X	X
17.2.3. Intrauterine Devices					
Copper containing device	Device			X	X
17.2.4. Barrier Methods					
Male Condoms		X	X	X	X
Female Condoms		X	X	X	X
17.3. Insulin and Other Anti-Diabetic Agents					
Glibenclamide 2.5mg	Tabs			X	X
Insulin injection (soluble) 100IU/ml	Inj.*			X	X
Intermediate - acting insulin 100IU/ml	Inj.*			X	X
Long acting insulin 100IU/ml	Inj.*				
Metformin 500mg	Tabs			X	X
17.4. Ovulation Inducers					
Clomiphene 50mg	Tabs				X
17.5. Progestogens					
Norethisterone 5mg	Tabs				X
17.6. Thyroid Hormones and Anti-Thyroid Medicines					
Levothyroxine 50mcg	Tabs				X

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSF	REF
<b>18. Immunologicals</b>					
18.1. Diagnostic Agents Tuberculin, purified protein derivative (PPD)	Inj.*			X	X
<b>18.2. Sera And Immunoglobulins</b>					
Anti-D immunoglobulin (human) 250mcg	Inj.*			X	X
Antitetanus immunoglobulin (human) 500IU	Inj.*			X	X
Antivenom Serum (Polyvalent)	Inj.*			X	X
Rabies immunoglobulin 150IU/ml	Inj.*				X
<b>18.3. Vaccines</b>					
<b>18.3.1. For Universal Immunization</b>					
BCG Vaccine	Inj.*		X	X	X
DPTVaccine	Inj.*		X	X	X
Hepatitis B Vaccine	Inj.*		X	X	X
Measles Vaccine	Inj.*		X	X	X
Polio Vaccine	Oral Drops*		X	X	X
Tetanus Toxoid	Inj.*		X	X	X
<b>18.3.2. For Specific Groups of Individuals</b>					
Meningococcal meningitis Vaccine	Inj.*			X	X
Rabies Vaccine	Inj.*			X	X
Yellow fever Vaccine	Inj.*			X	X
<b>19. Muscle Relaxants (Peripherally-Acting) and Cholinesterase Inhibitors</b>					
Suxamethonium 50mg (Chloride) in 2ml	Injection				X
<b>20. Ophthalmological Preparations</b>					
20.1. Anti-infective Agents Gentamycin 0.3% (sulphate)	Eye Drops			X	X
Tetracycline 1%	Ointment	X	X	X	X
<b>20.2. Anti-inflammatory Agents</b>					
Prednisolone 0.5%	Eye Drops			X	X
Sodium Cromoglycate	Eye Drops			X	X
<b>20.3. Local Anaesthetics</b>					
Tetracaine (Amethocaine) 0.5% (Hydrochloride)	Eye Drops			X	X

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSP	REF
20.4. Miotics and Anti-Glaucoma Medicines Acetazolamide 250mg Pilocarpine 2%	Tabs Eye Drops			X X	X X
20.5. Mydriatics Atropine 0.1%	Eye Drops			X	X
21. Oxytocics and Antioxytocics					
21.1. Oxytocics Oxytocin 10 IU Ergometrine 200mcg	Inj,* Injection		X X	X X	X X
22. Peritoneal Dialysis Solution Intraperitoneal dialysis solution (of Appropriate Composition)	Parenteral Solution				X
23. Psychotherapeutic Medicines					
23.1. Medicines Used in Psychotic Disorders Chlorpromazine 100mg Chlorpromazine 25mg (hydrochloride) Haloperidol 2mg Haloperidol 5mg in 1ml	Tabs Injection Tabs Injection			X X	X X X X
23.2. Medicines Used in Mood Disorders				X	
23.2.1. Medicines Used in Depressive Disorders Amitryptiline 25mg	Tabs			X	X
23.3. Medicines Used in Generalized Anxiety and Sleep Disorders Diazepam 2mg Diazepam 5mg	Tabs Tabs		X X	X X	X X
24. Medicines Acting on the Respiratory Tract					
24.1. Anti-Asthmatic and Medicines for Chronic Obstructive Pulmonary Diseases					
Aminophylline 25mg/ml Beclomethasone, 50mcg per dose (Dipropionate) Prednisolone 5mg Salbutamol 100mcg per dose Salbutamol 4mg, Tablet	IV Injection Inhalation Tabs Inhalation Tabs		X X X X X	X X X X X	X X X X X

## ESSENTIAL MEDICINES LIST OF SOUTHERN SUDAN

DESCRIPTION OF ITEM	DOSAGE FORM	PHCU	PHCC	HOSP	REF
24.2. Medicines Used for Treatment of Cough					
Diphenhydramine 14mg/5ml	Elixir	X	X	X	X
Guiaphenesin 50mg/5ml	Syrup	X	X	X	X
Dextromethorphan 10mg/5ml	Syrup	X	X	X	X
Diphenhydramine 14mg/5ml + Codeine Phosphate 15mg/5ml	Syrup	X	X	X	X
25. Solutions Correcting Water •• Electrolyte and Acid-Based Disturbances					
25.1. Oral Oral Rehydration Salts	See Section 16.4.1				
-----					
25.2. Parenteral					
Dextrose 10%, 500ml	Parenteral Solution			X	X
Dextrose 5%, 500ml	Parenteral Solution		X	X	X
Dextrose 50% solution, hypertonic, 50ml vial	Injection		X	X	X
Potassium Chloride 11.2% solution, in 20ml	Injection				X
Sodium Chloride 0.9%, 500ml	Parenteral Solution		X	X	X
Sodium lactate compound solution (Ringer Lactate), 1 litre	Parenteral Solution		X	X	X
-----		1----	-----	-----	-----
25.2. Miscellaneous					
Water for Injection, 10ml	Injection		X	X	X
26. Vitamins and Minerals					
Ascorbic acid 50mg	Tabs		X	X	X
Multivitamin	Tabs		X	X	X
Nicotinamide 50mg	Tabs		X	X	X
Retinol 200 000 IU, (Vitamin A)	Capsule	X	X	X	X
Pyridoxine 25mg	Tabs		X	X	X
Thiamine 50mg	Tabs		X	X	X

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## IIDEI

Abacavir (ABC)	14	Captopril	17
Albendazole	11	Carbamazepine	11
Acetazolamide	22	Cefixime	12
Acetylsalicylic Acid	10.16.18	Ceftriaxone	12
Actinomycin - O	16	Cetrimide	19
Acyclovir	13	Charcoal Activated	11
Adrenaline	10.11		
Allopurinol	10	Chloramphenicol	12
Aluminium Hydroxide	19	Chlorhexidine	16
Amiloride Hydrochloride	18	Chlorpheniramine	11
Aminophylline ;	22	Chlorpromazine ;	22
Amitryptiline	22	Cicloprin	16
Amodiaquine	15	Ciprofloxacin	12
Amoxicillin	12	Clavulanic Acid	12
Ampicillin ,	12	Clofazimine	13
Anti - O Human Immunoglobulin1	21	Clomiphene	20
Antitetanus Immunoglobulin	21	Clotrimazole	13.18
Antivenom Serum Polyvalent	21	Cloxacillin	12
Artemether	16	Coal Tar	18
Artesunate	15.16	Codeine Phosphate	10.19.23
Ascorbic Acid	23	Colchicine	10
Atenolol	17	Condom	20
Atropine	10.11.22	Copper - containing Device	20
Azathioprine	16	Cyclophosphamide	16
Azithromycin	12	Cystosine Arabinoside	16
Barium Sulphate	19	Dapsone	13
BCG Vaccin	21	Dexamethasone	11.16
Beclomethasone	22	Dextran	17
Betamethazone	18	Dextromethorphan	23
Benzathine Penicillin	12	Dextrose (Glucose)	23
Benzoic Acid	18	Diazepam	10.22
Benzy Penicillin	12	Didanosine	14
Benzyl Benzoate	18	Diclofenac Sodium	10
Biperiden	17	Diethylcarbamazine	11
Bupivacaine	10	Digoxin	17.18
Busulphan	16	Diphenhydramine	23
		Doxorubicin	16
Calamine Lotion	18	Doxycycline Hydrochloride	12
Calcium Gluconate	11	OPT Vaccine	21

---

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## INDEX

Efavirenz (EFV or EFZ)	14	Levonorgestrel	20
Eflornithine	16	Levothyroxine	20
Ergometrine Maleate	22	Lidocaine	10,17
Ergotamine Tartrate	16	Loperamide	19
Erythromycin	12	Lopinavir	15
Ethambutol	13	Lumefantrine	16
Ethinylestradiol	20		
		Magnesium Sulphate	11
Factor IX complex	17	Mannitol	18
Ferrous Sulphate + Folic Acid	17	Measles Vaccine	21
Fluorouracil	17	Mebendazole	11
Fluorescein	19	Medroxyprogesterone	20
Folic Acid	17	Melarsoprol	16
Folinic Acid	17	Meningococcal meningitis Vaccine ..	21
Furosemide	18	Metformin	20
		Methotrexate	17
Gentamycin	12,21	Metronidazole	12,15
Gentian Violet	19	Miltefosin	15
Glibenclamide	20	Morphine	10
Glycerin trinitrate	17	Multivitamin	23
Griseofulvin	13		
Guiaphenesin	23	Nalidixic Acid	12
		Naloxone hydrochloride	11
Haloperidol	22	Nelfinavir	15
Halothane	10	Nevirapine(NVP)	14,15
Heparin sodium	17	Nicotinamide	23
Hepatitis B vaccine	21	Nifedipine	18
Hydralazine	17	Norethisterone	20
Hydrochlorothiazide	17,18	Nystatin	13
Hydrocortisone	11,16,18		
		Oral Rehydration salts	19,23
Ibuprofen	10	Oxygen	10
Indinavir(IDV)	15	Oxytocin	22
Insulin	20	Paracetamol	10,16
Intraperitoneal dialysis solution	22	Paromomycin	15
<i>Ivermectin</i>	11	Pentamidine	15,16
Isoniazid	13	Peritoneal Dialysis Solution	22
		Pethidine	10
Ketamine	10	Phenobarbital	11
Lamivudine(3TC)	14,15	Phenytoin sodium	11

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## IIDEI

Phytomenadione (Vitamin K)	17	Sulphadoxine	16
Pilocarpine	22	Sulphamethoxazole	12
Podophyllin resin	18	Suxamethonium	21
Polio Vaccine	21		
Potassium Chloride	18.23	Tetanus Toxoid	21
Potassium permanganate	18	Tetracaine	21
Povidone Iodine	19	Tetracycline	21
Praziquantel	11	Thiamine	23
Prednisolone	11.16.21.22	Thiopental	10
Probencid	10	Tinidazole	15
Procaine Penicillin	12	Tramadol	10
Procaïnamide	17	Trimethoprim	12
Promethazine	19	Tropicamide	19
Pyrazinamide	13	Tuberculin (PPO)	21
Pyridoxine	23		
Pyrimethamine	16	Valproic Acid	11
		Vincristine sulphate	17
Quinine	16	Verapamil	17
Rabies Immunoglobulin	21	Wafarin	17
Rabies Vaccine	21	Water for Injection	23
Ranitidine	19		
Retinol	23	Yellow Fever Vaccine	21
Rifampicin	13		
Ritonavir (LPV/r)	15	Zidovudine (ZOV or AZT)	14
		Zinc Oxide	18
Salbutamol	22	Zinc Sulphate	19
Salicylic Acid	18		
Saquinavir	15		
Senna	19		
Silver Sulphadiazine	18		
Sodium Chloride	23		
Sodium Cromoglycate	21		
Sodium Oichloroisocyanurate	19		
Sodium Lactate Compound	23		
Sodium Stibogluconate	15		
Spirolactone	18		
Stavudine (d4T)	14.15		
Streptomycin	13		

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