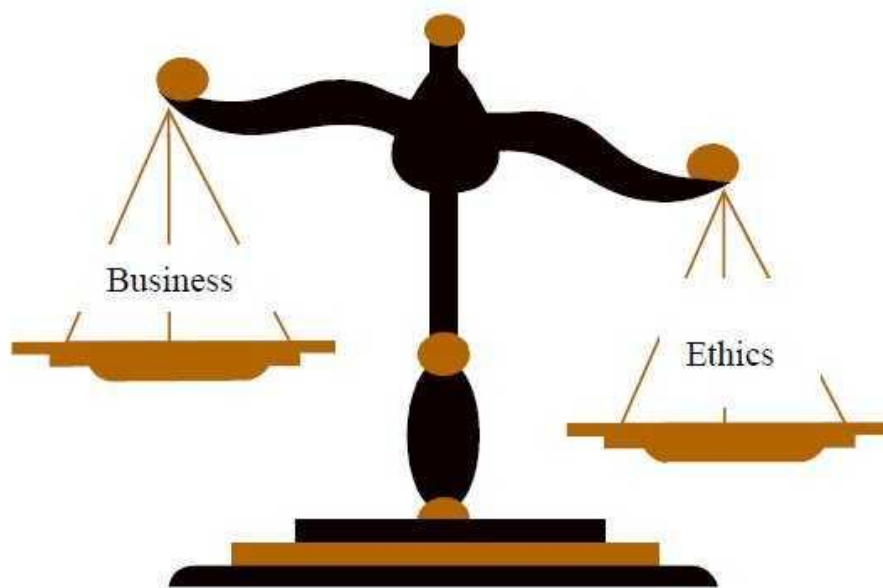


EMERGENCY MEDICINES LIST

(EML)

FIRST EDITION



**ETHIOPIAN FOOD, MEDICINE AND HEALTH CARE
ADMINISTRATION AND CONTROL AUTHORITY**

ADDIS ABABA
January 2014

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The Food, Medicine and Healthcare Administration and Control Authority (FMHACA) of Ethiopia would like to extend its gratitude to the World Health Organization (WHO) for its technical assistance, meeting all financial expenses associated with consultative workshop of the Emergency Medicines List.

Last but not least, the Authority would like to give special acknowledgement to all participants of the consultative workshops for their invaluable contributions in scrutinize and finalizing this list.

FOREWORD

Pharmacotherapy has always been an integral part of healthcare system and will remain so in the future. This relies on the availability of safe, effective and affordable medicines with the required quality, in reasonable amount. Moreover, on the rational prescribing, dispensing and use of such medicines.

According to Ethiopian Food, Medicine and Healthcare Administration and Control Proclamation No. 661/2009 medicines which are required for prevention, diagnosis, treatment, mitigation and rehabilitation of diseases affecting the Ethiopian people have to be developed and classified to respective levels of health service delivery by the Authority.

The List of Medicines for Emergency Medical Service is prepared in light of the above principle and the latest developments in the fields of medicine and pharmacy and by taking the new three-tier health care delivery system into consideration. Hence, users of this Emergency medicines list are advised to refer to the respective sub-lists relevant to their level of services.

It gives me a great pleasure to introduce Emergency Medicine list to all beneficiaries, which is the fruit of the joint effort of the staff of the Authority, development partners as well as the participants of the consultative workshops. I hope that the Emergency Medicines List will serve as useful guides for prevention and treatment of life threatening emergency medical case of the community.

Finally, I would like to express my gratitude to all those who have directly or indirectly extended their assistance in the preparation of the list. I also call upon health professionals and interested parties to continue their usual support in updating the list by forwarding comments and suggestions to the Food, Medicines and Healthcare Administration and Control Authority of Ethiopia.

YEHULU DENEKEW ALAMNEH
DIRECTOR GENERAL,
EFMHACA

INTRODUCTION

It is by far known that medicines are the key integral components of a health care system. Although there are immense active pharmaceutical entities in the global market, limiting medicines that shall be used within a given country in a given situation is prominent. This is done with due regard to factors like; safety, efficacy, quality, cost- benefit ratio, indication for treatment of diseases considered significant in the national context, sufficient experience with the medicines and other factors.

Through its health and drug policies and Food, Medicine and Healthcare Administration and Control Proclamation No.661/2009, the Government of Ethiopia has reaffirmed that the medicines used in health services within the nation shall be determined on the basis of the country's health problems and capabilities. Thus, to materialize this objective, it is necessary to select medicines which are required for promotion, prevention, diagnosis, treatment/mitigation and rehabilitation of diseases affecting the Ethiopian population.

In the light of the latest development in the fields of medicine and pharmacy and the revised national medicine list of Ethiopia, in addition considering the disease pattern of the community this Emergency Medicine List is prepared for primary clinic, medium clinic and specialty clinics who are not allowed to have pharmacy unit as per the national minimum standards. These emergency medicine lists consists of two parts, the first part contains commonly prescribed (emergency medicine for all level of care) list of emergency medicine and the second part contains emergency medicines classified as to different level of clinics and nursing home. Therefore health institutions should refer the sub-list which is relevant to the service they render.

The list of emergency medicine has been developed though various consultative meeting and workshops with concerned health professionals and institutions. The medicines in the list should be administered to emergency patients only treated in the health institutions, purchased from legal medicine retail outlets on the basis of prescription paper and legal receipt. The stock that should be handled and hoarding of such medicine is prohibited. In addition each medicine administered to emergency patient should be registered in emergency medicine administration registration book.

Users of this medicines list are advised to refer to the sub-list which is relevant to the level of service they render. Since the process of revising Emergency Medicine list is a continuous process which takes into account changing priorities for public health action as well as progress in pharmacological and pharmaceutical findings, this list will be subjected to continuous revision. Consequently, all users of this list are strongly invited to send their comments and suggestions to the Food, Medicine and Healthcare Administration and Control Authority of Ethiopia, P.O. Box 5681, Tel. 251-11 552 41 22, website www.fmhaca.gov.et , email regulatory@fmhaca.gov.et Addis Ababa, Ethiopia.

PART One: Common Emergency Medicines List

PHARMACOTHERAPEUTIC CLASSIFICATION OF EMERGENCY MEDICINES

00 Cardiovascular

CA100. Arrhythmic

CA101 Tachyarrhythmia

1. Adenosine Injection, 3mg/ml
2. Amiodarone Injection, 50mg /ml
3. Digoxin Injection, 0.1mg/ml, 0.25mg/ml
4. Lidocaine hydrochloride Injection 5mg/ml,10mg/ml, 20mg/ml in 20ml vial
5. Metoprolol Injection, 1mg/ml, 5mg/ml
6. Magnesium Sulfate Injection, 2%, 5%, 10%, 20%, 50% in 20ml
7. Procainamide Hydrochloride Injection,100mg/ml in 10ml vial
8. Propranolol Hydrochloride Injection 1 mg/ml
9. Verapamil Injection 2.5mg/ml

CA102 Bradyarrthmias

1. Atropine Sulfate Injection, 1mg/ml in 1 ml ampoule
2. Isoprenaline Injection,0.02mg/ml

CA 200 Antihypertensive

1. Hydrallazine Injection, 20mg/ml in 1 ampule
2. Labetalol Injection, 5mg/ml, 1000mg/20ml
3. Nitroglycerine Infusion, 0.1mg/ml, 0.2mg/ml, 0.4mg/ml
Injection, 5mg/mg
4. Sodium Nitroprusside Powder for injection, 50mg in ampoule

CA 400. Inotropic Agents

1. Adrenaline Injection, 0.1mg/ml

2. Dobutamine Powder for injection, 250mg

3. Dopamine Injection, 40mg/ml

CA 500. Drug used for Cardiac arrest

1. Adrenaline Injection, 0.1mg/ml

2. Amiodarone Injection, 50mg /ml

3. Atropine sulfate Injection, 1mg/ml in 1 ml ampoule

4. Lidocaine Injection 5mg/ml,10mg/ml, 20mg/ml in 20ml vial

5. Magnesium Sulfate Injection, 2%, 5%, 10%, 20%, 50% in 20ml

6. Procainamide Hydrochloride Injection,100mg/ml in 10ml vial

7. Sodium Chloride Injection 0.9% (Normal Saline), 10ml, 20ml, 500ml, 1000ml; 235mg/ml, 3% in 500ml
Injection, 30%- 30mg in 10ml

8. oxygen inhalation

9. Sodium bicarbonate Injection (concentrated), 7.5% (40mEq/50ml) in 50ml ampoule; 8.4%(50meq/50ml)

CA: 600 Acute Coronary Syndrome

CA: 601 Antiplateles

1. Acetylsalicylic acid Tablet, 71mg, 75mg & 81mg

2. Clopidgrel Tablet, 75mg

CA: 602 Anticoagulant

1. Dalteparin Injection, (Antifactor Xa), 5,000U, 10000U, 25000U, 75000U
Perfeilled Syring, 5000U, 7500U, 10000U

2. Enxaparin Injection, 20mg/0.2ml, 40mg/0.4ml, 60mg/0.6ml, 80mg/0.8ml, 100mg/ml

3. Heparin Injection, 1000U/ml, 5000U/ml, 10000U/ml, 12500U/ml, 25000U/ml
Injection, 1000IU in 500 Normal Saline

00 Central Nerves System

CN100 Analgesics

1. Diclofenac Injection, 25mg/ml in 3ml ampoule, 75mg/ml

CN 200 Anticholinergics

1. Atropine Sulfate Injection, 1mg/ml in 1 ml ampoule
2. Benztropine Injection, 1mg/ml in 2ml ampoule

CN 300 Neuroleptics

3. Haloperidol Injection, 5mg/ml in 1ml ampoule

CN-400 Subarachinoid hemorrhage

1. Nimodipine Injection, 1mg/5ml

00 Gastrointestinal medicine

GI 100 Antiemetic

1. Chlorpromazine Hydrochloride Drops, 25mg/drop
Injection, 25mg/ml, 25mg/2ml in 2ml,
50mg/2ml
2. Metoclopramide Drops, 0.2mg/drop
Injection, 5mg/ml, 5mg/2ml in 2ml ampoule
3. Promethazine Injection, 25mg/ml, 25mg/2ml in 1 ml & 2ml
ampoule

GI 200 Antispasmodic

1. Atropine sulfate Injection, 1mg/ml in 1 ml ampoule
2. Hyoscine (scopolamine) butyl bromide Drops, 5mg/5ml
Injection, 20mg/ml
3. Hyoscine (scopolamine) hydro bromide Injection, 0.4mg/ml, 0.6mg/ml in 1ml
ampoul

GI 400 Medicine used in dehydration

1. Oral Rehydration Salt	Powder, each sachet for 1 liter contains:			
	<u>Gram/Liter</u>		<u>mmol/L</u>	
Sodium	2.6	Sodium	75	
Glucose Anhydrate	13.5	Chloride	65	
Potassium Chloride	1.5	Glucose Anhydrate	75	
Trisodium Citrate Dehydrate	2.9	Potassium	20	
		Citrate	10	
		Total Osmolarity = 24		
2. Sodium Chloride		Injection 0.9% (Normal Saline), 10ml, 20ml, 500ml, 1000ml; 235mg/ml, 3% in 500ml Injection, 30%- 30mg in 10ml		
3. Ringer's Lactate		Inject able solution, each 1000ml contains: K^+ 5.4mEq + Na^+ 130.7mEq + Ca^{++} 3.6mEq Cl^- 111.5mEq + Lactate 28.2mEq in 500ml, 1000ml		

00 Endocrine Emergencies

EN 100 Corticosteroids

1. Dexamethasone	Injection, 4mg/ml, 25mg/ml, 50mg/ml
2. Hydrocortisone	Injection (Sodium Succinate), 50mg/ml in 2ml ampoule, 125 mg/ml Powder for Injection, 25mg/ampoule, 500mg in vial
3. Methylpredinsolone	Injection,(aqueous suspension), 40mg/ml 80mg/ml in 1ml & 2ml ampoules
4. Prednisolone	Injection (Sodium Phosphate), 10mg/ml, 25mg/ml in 2ml ampoule

EN 200 Diabetic emergency

1. Dextrose	Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml
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2. Insulin Soluble/ Neutral(Human, Procaïn & Bovine) Injection, 100u/ml

EN 300 Gynecological and obstetrics

1. Ergometrine Maleate Injection, 0.25 mg/ml, 0.5 mg/ml

2. Oxytocin Injection, 1unit/ml, 5unit/ml, 10unit/ml

3. Magnesium Sulfate Injection, 2%, 5%, 10%, 20%, 50% in 20ml

4. Tetracycline Eye drop, 1%
Eye ointment 1%

EN: 400 Thyroid Emergencies

1. Hydrocortisone Injection, 50mg/ml , 125mg/ml
Powder for injection, 25mg/ampoule, 500mg in vial

2. Iodine + Potassium Iodide (Lugol's solution) Solution, 5%+ 10%

3. Propranolol Injection, 1mg/ml

00 Medicines for correcting water, electrolyte and acid – base disturbances

1. Calcium Gluconate Injection, 10% in 10ml ampule

2. Dextrose Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml

3. Dextrose with Saline Injection, 5% in 500ml, 1000ml;
10% in 500ml, 1000ml

4. Ringer's Lactate (Hartmann's Normal) Inject able solution, each 1000ml contains:
 K^+ 5.4mEq + Na^+ 130.7mEq + Ca^{++} 3.6mEq Cl^- 111.5mEq + Lactate 28.2mEq in 500ml, 1000ml

5. Potassium chloride Injection, 150mg/ml in 10ml ampoule

6. Sodium Chloride Injection 0.9% (Normal Saline), 10ml, 20ml, 500ml, 1000ml; 235mg/ml, 3% in 500ml
Injection, 30%- 30mg in 10ml

00 Respiratory Medicine

RS 100 Anti-Asthma Drugs

- | | |
|------------------------|--|
| 1. Adrenaline | Injection, 0.1mg/ml |
| 2. Aminophylline | Injection, 250mg /10ml in 10ml& 20ml |
| 3. Hydrocortisone | Injection (Sodium Succinate), 50mg/ml in 2ml ampoule, 125 mg/ml
Powder for Injection, 25mg/ampoule, 500mg in vial |
| 4. Ipratropium bromide | Aerosol, 20mcg/meter inhalation;
40mcg/meter inhalation |
| 5. Oxygen inhalation | |
| 6. Prednisolone | Injection (Sodium Phosphate), 10mg/ml, 25mg/ml in 2ml ampoule |
| 7. Salbutamol | Oral inhalation, 0.1mg/dose;
Nebulizer solution,2.5mg/2.5ml |

RS 300 Exacerbation of Chronic Obstructive Pulmonary Disease

- | | |
|------------------------|--|
| 1. Hydrocortisone | Injection (Sodium Succinate), 50mg/ml in 2ml ampoule, 125 mg/ml
Powder for Injection, 25mg/ampoule, 500mg in vial |
| 2. Ipratropium bromide | Aerosol, 20mcg/meter inhalation;
40mcg/meter inhalation |
| 3. Oxygen inhalation | |
| 4. Prednisolone | Injection (Sodium Phosphate), 10mg/ml, 25mg/ml in 2ml ampoule |
| 5. Salbutamol | Oral inhalation, 0.1mg/dose;
Nebulizer solution,2.5mg/2.5ml |

00 Ophthalmic Emergency

1. Acetazolamide	Injection, 125mg, 500mg
2. Gentamycin	Injection, 40mg/ml, 80mg/2ml
3. Tetracaine	Eye drop, 0.5%
4. Tetracycline	Eye drop, 1% Eye ointment 1%
5. Tropicamide	Eye drop, 0.5%, 1%

00 Medicine for Poisoning and Over Dose

1. Activated Charcoal	Tablet, 125mg, 250mg Powder for reconstitution, 15gm/120ml, 25gm Gel, 300ml
2. Acetylcysteine	Injection, 200mg/ml in 10ml ampoule
3. Adrenaline	Injection, 0.1mg/ml
4. Atropine Sulfate	Injection, 1mg/ml in 1 ml ampoule
5. Calcium Chloride	Injection, 10% (100mg/ml), 13.6mEq Calcium in 10ml, 5mmol of calcium & Ions in 5ml
6. Digoxin Immune Fab (Ovine) Digoxin specific, antibody fragments	Powder for injection, 40mg
7. Ipecac	Syrup, 7% powder
8. Naloxone	Injection, 0.02mg/ml in 2ml ampoule, 0.4mg/ml in 1ml and 10ml ampoule, 1mg/ml
9. Physostigmine Salicylate	Injection, 1mg/ml in 1 ml and 2ml ampoule
10. Pralidoxime	Powder for injection, 1g/vial
11. Protamine Sulfate	Injection, 10mg/ml,
12. Rabies Antiserum, Equine	Injection, 200units in 5ml
13. Snake Venom Antiserum polyvalent	Injection, 10ml
14. Vitamin K	Injection, 10mg/ml in 1ml ampoule

15. Universal Antidote (Charcoal +Tannic acid + Powder, 2parts+1part+1part
Magnesium oxide)

PART TWO: Specialty specific Emergency Medicines List

EMERGENCY MEDICINES LIST FOR OPHTHALMOLOGY SPECIALITY CLINIC

NAME	Dosage form and Dose
Acetazolamide	Injection, 125mg, 500mg Tablet/Capsule, 250 mg
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Atropine sulfate	Injection, 1mg/ml in 1ml ampoule
Dexamethasone	Injection, 4mg/ml, 25mg/ml, 50mg/ml
Gentamycin	Injection 20mg/ml or 40mg/ml (For sub-conjunctival instillation during trauma)
Hydrocortisone Sodium Succinate	Injection, 50mg/ml
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Promethazine Hydrochloride	Injection, 25mg/ml
Tetracycline	Eye ointment, 1% Eye drop, 1%
Tetracaine	Eye drop, 0.5%
Tropicamide	Eye drop, 0.5%, 1%

EMERGENCY MEDICINES LIST FOR **OBSTETRICS & GYNAECOLOGY** SPECIALITY
CLINIC

NAME	Dosage form and Dose
Activated charcoal	Tablet, 125mg, 250mg Powder for reconstitution, 15gm/120ml, 25gm Gel, 300ml
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Aminophylline	Injection, 250mg/10ml, in 10ml and 20 ml
Dexamethasone	Injection, 4mg/ml, 25mg/ml, 50mg/ml
Dextrose in Normal Saline	Injection, 5% in 500ml, 1000ml; 10% in 500ml, 1000ml
Dextrose	Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml
Diclofenac	Injection, 25mg/ml in 3ml ampoule, 75mg/ml
Ergometrine Maleate	Injection, 0.25 mg/ml, 0.5 mg/ml Tablet, 0.25mg, 0.5mg
Hydralazine	Injection, 20mg/ml in 1ml ampoule
Ipecac	Syrup, 7% powdered Ipecac
Lactated Ringer's (Hartmann's Solution)	Injectable solution, each 1000ml contains: K^+ 5.4mEq + Na^+ 130.7mEq + Ca^{++} 3.6mEq Cl^- 111.5mEq + Lactate 28.2mEq in 500ml, 1000ml
Levonorgestrel (Post Pill)	Tablet, 0.75mg
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Magnesium Sulfate	Injection, 2%, 5%, 10%, 20%, 50% in 20ml
Oxytocin	Injection, 1unit/ml, 5unit/ml, 10unit/ml
Oxygen Inhalation	
Phytomenadione (Vitamin K)	Injection, 10mg/ml in 1ml ampoule
Sodium Chloride (NS)	Injection 0.9% 10ml, 20ml, 500ml, 1000ml;

Tetracycline

Eye ointment, 1%

Eye drop, 1%

Universal Antidot (Charcoal +Tannic
acid + Magnesium oxide)

Powder, 2parts+1part+1part

EMERGENCY MEDICINES LIST FOR **PSYCHIATRY** SPECIALITY CLINIC

NAME	Dosage form and Dose
Activated charcoal	Tablet, 125mg, 250mg Powder for reconstitution, 15gm/120ml, 25gm Gel, 300ml
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Aminophylline	Injection, 250mg/10ml, in 10ml and 20 ml
Diclofenac	Injection, 25mg/ml in 3ml ampoule, 75mg/ml
Haloperidol	Injection, 5mg/ml in 1ml ampoule
Hydrocortisone Sodium Succinate	Injection, 50mg/ml
Ipecac	Syrup, 7% powdered Ipecac
Lactated Ringer's (Hartmann's Solution)	Injectable solution, each 1000ml contains: K ⁺ 5.4mEq + Na ⁺ 130.7mEq + Ca ⁺⁺ 3.6mEq Cl ⁻ 111.5mEq +Lactate 28.2mEq in 500ml, 1000ml
Levonorgestrel (Post Pill)	Tablet, 0.75mg
Oxygen Inhalation	
Phytomenadione (Vitamin K)	Injection, 10mg/ml in 1ml ampoule
Promethazine Hydrochloride	Injection, 25mg/ml
Universal Antidot (Charcoal +Tannic acid +Magnesium oxide)	Powder, 2parts+1part+1part

EMERGENCY MEDICINES LIST FOR ENT SPECIALITY CLINIC

NAME	Dosage form and Dose
Activated charcoal	Tablet, 125mg, 250mg Powder for reconstitution, 15gm/120ml, 25gm Gel, 300ml
Albuterol/ sulbutamol	Injection, 5mg/ml in 1ml ampule
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Aminophylline	Injection, 250mg/10ml, in 10ml and 20 ml
Atropine sulfate	Injection, 1mg/ml in 1ml ampoule
Dexamethasone	Injection, 4mg/ml, 25mg/ml, 50mg/ml
Diclofenac	Injection, 25mg/ml in 3ml ampoule, 75mg/ml
Hydrocortisone Sodium Succinate	Injection, 50mg/ml
Ipecac	Syrup, 7% powdered Ipecac
Lactated Ringer's (Hartmann's Solution)	Injectable solution, each 1000ml contains: K^+ 5.4mEq + Na^+ 130.7mEq + Ca^{++} 3.6mEq Cl^- 111.5mEq + Lactate 28.2mEq in 500ml, 1000ml
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Oxygen Inhalation	
Universal Antidot (Charcoal +Tannic acid + Magnesium oxide)	Powder, 2parts+1part+1part

EMERGENCY MEDICINES LIST FOR ORTHOPAEDICS SPECIALITY CLINIC

NAME	Dosage form and Dose
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Dextrose in Normal Saline	Injection, 5% in 500ml, 1000ml; 10% in 500ml, 1000ml
Dextrose	Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml
Diclofenac	Injection, 25mg/ml in 3ml ampoule, 75mg/ml
Hydrocortisone Sodium Succinate	Injection, 50mg/ml
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Oxygen Inhalation	
Sodium Chloride	Injection 0.9% 10ml, 20ml, 500ml, 1000ml; 235mg/ml, 3% in 500ml Injection, 30% - 30mg in 10ml

EMERGENCY MEDICINES LIST FOR **NEUROLOGY** SPECIALITY CLINIC

NAME	Dosage form and Dose
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Aminophylline	Injection, 250mg/10ml, in 10ml and 20 ml
Dexamethasone	Injection, 4mg/ml, 25mg/ml, 50mg/ml
Dextrose in Normal Saline	Injection, 5% in 500ml, 1000ml; 10% in 500ml, 1000ml
Dextrose	Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml
Diclofenac	Injection, 25mg/ml in 3ml ampoule, 75mg/ml
Hydrocortisone Sodium Succinate	Injection, 50mg/ml
Lactated Ringer's (Hartmann's Solution)	Injectable solution, each 1000ml contains: K^+ 5.4mEq + Na^+ 130.7mEq + Ca^{2+} 3.6mEq Cl 111.5 mEq + Lactate 28.2mEq in 500ml, 1000ml
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Oxygen Inhalation	
Sodium Chloride	Injection 0.9% 10ml, 20ml, 500ml, 1000ml

EMERGENCY MEDICINES LIST FOR **CARDIOVASCULAR** SPECIALITY CLINIC

NAME	Dosage form and Dose
Activated charcoal	Tablet, 125mg, 250mg Powder for reconstitution, 15gm/120ml, 25gm Gel, 300ml
Adenosine	Injection 3mg/ml
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Aminophylline	Injection, 250mg/10ml, in 10ml and 20 ml
Amiodarone	Injection, 50mg/ml
Calcium Gluconate	Injection, 10% (100mg/ml), 13.6mEq Calcium in 10ml, 5mmol of calcium & Ions in 5ml
Dexamethasone	Injection, 4mg/ml, 25mg/ml, 50mg/ml
Dextrose in Normal Saline	Injection, 5% in 500ml, 1000ml; 10% in 500ml, 1000ml
Dextrose	Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml
Diclofenac	Injection, 25mg/ml in 3ml ampoule, 75mg/ml
Digoxin	Injection, 0.1 mg/ml in 1ml ampoule; 0.25mg/ml in 2ml ampoule
Dobutamine	Powder for Injection, 250mg
Dopamine hydrochloride	Injection, 40mg/ml
Glyceryl trinitrate	Injection 5mg/ml
Hydralazine	Injection, 20mg/ml in 1ml ampoule
Hydrocortisone Sodium Succinate	Injection, 50mg/ml
Ipecac	Syrup, 7% powdered Ipecac
Isosorbide Dinitrate	Tablet, (Sublingual), 5mg, 10mg

Lactated Ringer's (Hartmann's Solution)	Injectable solution, each 1000ml contains: K^+ 5.4mEq + Na^+ 130.7mEq + Ca^{++} 3.6mEq Cl^- 111.5mEq +Lactate 28.2mEq in 500ml, 1000ml
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Magnesium Sulfate	Injection, 2%, 5%, 10%, 20%, 50% in 20ml
Metoprolol	Injection, 1mg/ml, 5mg/ml
Oxygen Inhalation	
Phytomenadione (Vitamin K)	Injection, 10mg/ml in 1ml ampoule
Protamine sulfate	Injection, 10mg/ml
Sodium Chloride	Injection 0.9% 10ml, 20ml, 500ml, 1000ml;
Sodium nitroprusside	Powder for injection 50mg in ampoule
Universal Antidot (Charcoal +Tannic acid + Magnesium oxide)	Powder, 2parts+1part+1part

EMERGENCY MEDICINES LIST FOR GASTROENTROLOGY SPECIALITY CLINIC

NAME	Dosage form and Dose
Activated charcoal	Tablet, 125mg, 250mg Powder for reconstitution, 15gm/120ml, 25gm Gel, 300ml
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Aminophylline	Injection, 250mg/10ml, in 10ml and 20 ml
Atropine sulfate	Injection, 1mg/ml in 1ml ampoule
Dextrose in Normal Saline	Injection, 5% in 500ml, 1000ml; 10% in 500ml, 1000ml
Dextrose	Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml
Hydrocortisone Sodium Succinate	Injection, 50mg/ml
Hyoscine Hydrobromide	Injection, 0.4mg/ml, 0.6mg/ml in 1ml ampoule
Insulin Soluble/Neutral (Human, porcine, and Bovine)	Injection, 100u/ml
Ipecac	Syrup, 7% powdered Ipecac
Lactated Ringer's (Hartmann's Solution)	Injectable solution, each 1000ml contains: K^+ 5.4mEq + Na^+ 130.7mEq + Ca^{++} 3.6mEq Cl^- 111.5mEq + Lactate 28.2mEq in 500ml, 1000ml
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Metoclopramide	Injection, 5mg/ml, 5mg/2ml in 2ml ampoule
Oxygen Inhalation	
Sodium Chloride	Injection 0.9% 10ml, 20ml, 500ml, 1000ml
Universal Antidot (Charcoal +Tannic acid + Magnesium oxide)	Powder, 2parts+1part+1part

EMERGENCY MEDICINES LIST FOR **RHEUMATOLOGY** SPECIALITY CLINIC

NAME	Dosage form and Dose
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Dexamethasone	Injection, 4mg/ml, 25mg/ml, 50mg/ml
Diclofenac	Injection, 25mg/ml in 3ml ampoule, 75mg/ml
Hydrocortisone Sodium Succinate	Injection, 50mg/ml
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Oxygen Inhalation	
Promethazine Hydrochloride	Injection, 25mg/ml

EMERGENCY MEDICINES LIST FOR **NEPHROLOGY** SPECIALITY CLINIC

NAME	Dosage form and Dose
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Aminophylline	Injection, 250mg/10ml, in 10ml and 20 ml
Calcium Gluconate	Injection, 10% (100mg/ml), 13.6mEq Calcium in 10ml, 5mmol of calcium & Ions in 5ml
Dextrose in Normal Saline	Injection, 5% in 500ml, 1000ml;10% in 500ml, 1000ml
Dopamine hydrochloride	Injection, 40mg/ml
Hydrocortisone Sodium Succinate	Injection, 50mg/ml
Lactated Ringer's (Hartmann's Solution)	Injectable solution, each 1000ml contains: K^+ 5.4mEq + Na^+ 130.7mEq + Ca^{++} 3.6mEq Cl^- 111.5mEq +Lactate 28.2mEq in 500ml, 1000ml
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Oxygen Inhalation	
Sodium Chloride	Injection 0.9% 10ml, 20ml, 500ml, 1000ml;
Sodium nitroprusside	Powder for injection 50mg in ampoule

EMERGENCY MEDICINES LIST FOR INTERNAL MEDICINE SPECIALITY CLINIC

NAME	Dosage form and Dose
Activated charcoal	Tablet, 125mg, 250mg Powder for reconstitution, 15gm/120ml, 25gm Gel, 300ml
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Albuterol (Salbutamol)	Oral inhalation, 0.1mg/dose; Nebulizer solution, 2.5mg/2.5ml
Aminophylline	Injection, 250mg/10ml, in 10ml and 20 ml
Atropine sulfate	Injection, 1mg/ml in 1ml ampoule
Calcium Gluconate	Injection, 10% (100mg/ml), 13.6mEq Calcium in 10ml, 5mmol of calcium & Ions in 5ml
Dexamethasone	Injection, 4mg/ml, 25mg/ml, 50mg/ml
Dextrose in Normal Saline	Injection, 5% in 500ml, 1000ml; 10% in 500ml, 1000ml
Dextrose	Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml
Diclofenac	Injection, 25mg/ml in 3ml ampoule, 75mg/ml
Dopamine hydrochloride	Injection, 40mg/ml
Glyceryl trinitrate	Injection 5mg/ml ,
Hydralazine	Injection, 20mg/ml in 1ml ampoule
Hydrocortisone Sodium Succinate	Injection, 50mg/ml
Hyoscine Hydrobromide	Injection, 0.4mg/ml, 0.6mg/ml in 1ml ampoule
Insulin Soluble/Neutral (Human, porcine, and Bovine)	Injection, 100u/ml
Ipecac	Syrup, 7% powdered Ipecac
Isosorbide dinatrate	Tablet sublingual, 5mg, 10mg

Lactated Ringer's (Hartmann's Solution)	Injectable solution, each 1000ml contains: K^+ 5.4mEq + Na^+ 130.7mEq + Ca^{++} 3.6mEq Cl^- 111.5mEq +Lactate 28.2mEq in 500ml, 1000ml
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Metoprolol	Injection, 1mg/ml, 5mg/ml
Metoclopramide	Injection, 5mg/ml, 5mg/2ml in 2ml ampoule
Oxygen Inhalation	
Phytomenadione (Vitamin K)	Injection, 10mg/ml in 1ml ampoule
Potassium Chloride	Injection, 150mg/ml in 10ml ampoule
Promethazine Hydrochloride	Injection, 25mg/ml
Sodium Chloride	Injection 0.9% 10ml, 20ml, 500ml, 1000ml;
Sodium nitroprusside	Powder for injection 50mg in ampoule
Universal Antidot (Charcoal +Tannic acid + Magnesium oxide)	Powder, 2parts+1part+1part

EMERGENCY MEDICINES LIST FOR PAEDIATRICS SPECIALITY CLINIC

NAME	Dosage form and Dose
Activated charcoal	Tablet, 125mg, 250mg Powder for reconstitution, 15gm/120ml, 25gm Gel, 300ml
Acetaminophen	Suppository, 125mg, 250mg
Adenosine	Injection, 3mg/ml
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Dexamethasone	Injection, 4mg/ml, 25mg/ml, 50mg/ml
Dextrose in Normal Saline	Injection, 5% in 500ml, 1000ml; 10% in 500ml, 1000ml
Dopamine hydrochloride	Injection, 40mg/ml
Hydrocortisone Sodium Succinate	Injection, 50mg/ml
Hyoscine Hydrobromide	Injection, 0.4mg/ml, 0.6mg/ml in 1ml ampoule
Insulin Soluble/Neutral (Human, porcine, and Bovine)	Injection, 100u/ml
Ipecac	Syrup, 7% powdered Ipecac
Lactated Ringer's (Hartmann's Solution)	Injectable solution, each 1000ml contains: K^+ $5.4mEq + Na^+ 130.7mEq + Ca^{++} 3.6mEq Cl^-$ $111.5mEq + Lactate 28.2mEq$ in 500ml, 1000ml
Levonorgstrel (Post Pill)	Tablet, 0.75mg (for rape purposes)
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Metoclopramide	Injection, 5mg/ml, 5mg/2ml in 2ml ampoule
Oxygen Inhalation	
Promethazine Hydrochloride	Injection, 25mg/ml
Phytomenadione (Vitamin K)	Injection, 10mg/ml in 1ml ampoule

Sodium Chloride (Normal Saline)

Injection 0.9% 10ml, 20ml, 500ml, 1000ml;
235mg/ml, 3% in 500ml
Injection, 30%- 30mg in 10ml

Universal Antidot (Charcoal +Tannic acid +
Magnesium oxide)

Powder, 2parts+1part+1part

EMERGENCY MEDICINES LIST FOR **DENTAL** SPECIALITY CLINIC

NAME	Dosage form and Dose
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Diclofenac	Injection, 25mg/ml in 3ml ampoule, 75mg/ml
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Oxygen Inhalation	
Phytomenadione (Vitamin K)	Injection, 10mg/ml in 1ml ampoule

EMERGENCY MEDICINES LIST FOR MEDIUM CLINIC

NAME	Dosage form and Dose
Activated Charcoal	Tablet, 125mg, 250mg Powder for reconstitution, 15gm/120ml, 25gm Gel, 300ml
Adrenaline	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Albuterol/ sulbutamol	Injection, 5mg/ml in 1ml ampule
Aminophylline	Injection, 250mg/10ml, in 10ml and 20 ml
Dextrose	Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml
Dextrose in Normal Saline	Injection, 5% in 500ml, 1000ml; 10% in 500ml, 1000ml
Diclofenac Sodium	Injection, 25mg/ml in 3ml ampoule, 75mg/ml
Hydralazine	Injection, 20mg/ml in 1ml ampoule
Ipecac	Syrup, 7% powdered Ipecac
Lactated Ringer's (Hartmann's Solution)	Injectable solution, each 1000ml contains: K^+ 5.4mEq + Na^+ 130.7mEq + Ca^{++} 3.6mEq + Cl^- 111.5mEq + Lactate 28.2mEq in 500ml, 1000ml
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Metoclopramide	Injection, 5mg/ml, 5mg/2ml
Oxygen Inhalation	
Phytomenadione (Vitamin K)	Injection, 10mg/ml in 1ml ampoule
Snake Venoum Antiserum Polyvalent	Injection, 10ml
Sodium Chloride	Injection 0.9% (Normal Saline), 10ml, 20ml
Tetracycline	Eye ointment, 1%
Universal Antidote (Charcoal +Tannic acid + Magnesium oxide)	Powder, 2parts+1part+1part

EMERGENCY MEDICINES FOR **PRIMARY** CLINICS

NAME	Dosage form and Dose
Activated Charcoal	Tablet, 125mg, 250mg Powder for reconstitution, 15gm/120ml, 25gm Gel, 300ml
Adrenaline	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Dextrose	Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml
Dextrose in Normal Saline	Injection, 5% in 500ml, 1000ml; 10% in 500ml, 1000ml
Diclofenac Sodium	Injection, 25mg/ml in 3ml ampoule, 75mg/ml
Ipecac	Syrup, 7% powdered Ipecac
Lactated Ringer's solution	Injectable solution, each 1000ml contains: K^+ 5.4mEq + Na^+ 130.7mEq + Ca^{++} 3.6mEq + Cl^- 111.5mEq + Lactate 28.2mEq in 500ml, 1000ml
Lidocaine Hydrochloride	Injection, 0.5%, 1%, 2%, 5%
Metoclopramide	Injection, 5mg/ml, 5mg/2ml
Oxygen Inhalation	
Phytomenadione (Vitamin K)	Injection, 10mg/ml in 1ml ampoule
Rabies vaccine	Injection 100 ml in vial
Sodium Chloride	Injection 0.9% (Normal Saline), 10ml, 20ml, 500ml,
Snake Venoum Antiserum Polyvalent	Injection, 10ml
Teteracycline	Eye drop, 1% Eye ointment 1%
Universal Antidote (Charcoal + Tannic acid + Magnesium oxide)	Powder, 2parts+1part+1part

EMERGENCY MEDICINES FOR NURSING HOME CARE

NAME	Dosage form and Dose
Adrenaline	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Dextrose	Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml
Dextrose in Normal Saline	Injection, 5% in 500ml, 1000ml; 10% in 500ml, 1000ml
Diclofenac Sodium	Injection, 25mg/ml in 3ml ampoule, 75mg/ml
Metoclopramide	Injection, 5mg/ml, 5mg/2ml
Sodium Chloride	Injection 0.9% (Normal Saline), 10ml, 20ml,

Annex I: Emergency Patient Medicine Administration Registration

S. No	Date	Name of the patient	Card No	Diagnosis	Name, strength, dosage form and Quantity Administered	Name & Signature	Remark

Annex II: List of Consultative Workshops Participants

No.	Name	Organization	Profession
1.	Abraham G/giorges	WHO	Pharmacist
2.	Afework Nida	FMHACA	Pharmacist
3.	Dessie Kiber	Amhara Health Bureau	P.Nurse
4.	Dr. Ayenalem Abraha	PHSP-E	Oncologist
5.	Dr. Petros Mitiku	PHSP-E	Physician
6.	Dr.Kedier Abo	Halleluiah Higher Clinic	Physician
7.	Dr.Selamawit Ashagre	Police Hospital	Gynecologist
8.	Dr.TekleAb Zaid	PHSP-E	Physician
9.	Dr.Yilikal Adamu	Addis Ababa University	Ophthalmologist
10.	Ermias Mulugeta	Bethzatha Health center	Physician
11.	Ephrem Abebe	School of Pharmacy AAU	Pharmacologist
12.	Fekerte Sahlu	Life Addis H.c	Nurse
13.	Fetlewiwork Haile	Addis Ababa Regional Health Bureau	P.Nurse
14.	Gebriel Lishan	Black Lion Hospital	Pharmacist
15.	Gebru w/maiden	Ethiopian Pharmaceutical association	Pharmacist
16.	Kaleb Terefe	SNNPR Regional Health Bureau	Pharmacist
17.	K/Mariam G/Michal	FMHACA	Pharmacist
18.	Kebebush Omer	Amen Dental.	Physician
19.	Mastewal Kerebih	FMHACA	Health Officer (MPH)
20.	Melaku Hamibisa	Ethiopian Druggist Association	Druggist
21.	Misrak Feleke	St.Paul mellenium medical College	Pharmacist
22.	Netsanet Behabtu	FMHACA	Pharmacis
23.	Prof. Eyasu Makonnen	FM-AAU	Pharmacologist
24.	Redae G/tsadik	Tigray Regional Health Bureau	Pharmacist
25.	Raey Yohannes	FMHACA	Pharmacologist
26.	Sara Tesfaye	Dr Nega ENT Clinic	P.Nurse
27.	Shibru Asfaw	Bethzatha Higher Clinic	Physician
28.	Tesfaye Bayou	TAZMA	Physician
29.	Tesfaye Worku	Meskerem MCH clinic	Gynecologist
30.	Teshita Shute	Kenema Pharmacy	Pharmacist
31.	Worku Tesfa	Beza medium Clinic	Health officer
32.	Yusuf Edris	FMHACA	Pharmacist
33.	Yeshialem Bekele	FMHACA	BSC nurse
34.	Abraham G/Giorgis (Ato)	WHO	Pharmacist
35.	Ajema Bekele(Ato)	FMHACA	Pharmacist
36.	Atlaw Abate(Ato)	FMHACA	Pharmacist
37.	Chalelgn Kassaw (Ato)	Amanuel hospital	Pharmacist
38.	Dagne Seyife (Ato)	Police Hospital	Pharmacist
39.	Debalke fanta(Ato)	FMHACA	Pharmacist
40.	Dereje Yemane (Ato)	FMHACA	Pharmacist
41.	Edgegayehu Yeshitela (W/t)	FMHACA	Pharmacist
42.	Edmealem Ejigu (Ato)	USAID/SIAPS	Pharmacist

43.	Elias Afework	Addis Ababa FMHACA	Pharmacist
44.	Elias Hailu (Ato)	Korea Hospital	Pharmacist
45.	Elias Temiru(Ato)	ZAF pharmaceutical	pharmacist
46.	Fettework negatu	Zogdom Pharmacy	pharmacist
47.	Girma Tefera (Ato)	FMHACA	Pharmacist
48.	Kadir Abdela (Dr.)	Haleluya Clinic	Medical Doctor/GP
49.	Mahlet Dejene(W/t)	FMHACA	Pharmacist
50.	Marta Kassaye(w/t)	FMHACA	Pharmacist
51.	Meleku Hambisa (Ato)	Ethiopian Druggists Association	Druggist
52.	Mesele Derese (Ato)	Labora pharmaceutical	Pharmacist
53.	Natinael Taye (Dr.)	Addis Cardiac Hospital	Internist
54.	Nitsuh Kossye (Dr.)	AMH	Medical Doctor/GP
55.	S/R Habtamnesh Engdaw	Yekatit 12 hospital	Pharmacist
56.	Seble Shambel (W/O)	FMHACA	Pharmacologist
57.	Walelegn w/Senbet	St. Paulos Millinium medical college	Pharmacist
58.	Yisalemush Mulatu (Dr.)	Africa Higher Clinic	Medical doctor/GP

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