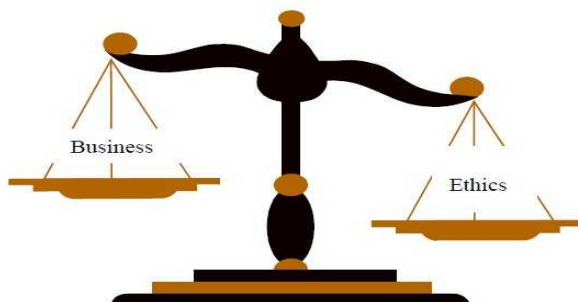


EMERGENCY MEDICINES LIST (EML) FIRST EDITION



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

ADDIS ABABA

January, 2014

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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 health care 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 Health Care 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 Authority 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 level clinic, medium clinic and specialty clinic who are not allowed to have pharmacy unit as per the national minimum standard. The prepared emergency list consists two parts, the first part contain commonly prescribed list of emergency medicine. And the second part of EML classified emergency medicines to different health institutions. 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

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/m |
| 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 1mg/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 1ampule |
| 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. Adrenalin | 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. Norepinephrine | Injectable solution, 1mg/ml |
| 7. Procainamide Hydrochloride | Injection,100mg/ml in 10ml vial |
| 8. Sodium Chloride | Injection 0.9% (Normal Saline), 10ml, 20ml, 500ml, 1000ml; 235mg/ml, 3% in 500ml
Injection, 30%- 30mg in 10ml |
| 9. oxygen inhalation | |
| 10. Sodium bicarbonate | Injection (concentrated), 7.5%(40mEq/50ml) in 50ml ampoule; 8.4%(50meq/50ml) |

CA: 600 Acute Coronary Syndrome

CA: 601 Antiplatelets

- | | |
|-------------------------|---------------------------|
| 1. Acetylsalicylic acid | Tablet, 71mg, 75mg & 81mg |
| 2. Clopidogrel | 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/m

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 Subarachnoid hemorrhage

1. Nimodipine
Injection, 1mg/5ml

00 Gastrointestinal medicine

GI 100 Antiemetic

1. Chlorpromazine
Drops, 25mg/drop
Hydrochloride
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 1ml & 2ml ampoule

GI 200 Antispasmodic

1. Atropine sulfate Injection, 1mg/ml in 1 ml ampoule
2. Hyoscine (scopolamine) Drops, 5mg/5ml
butyl bromide Injection, 20mg/ml
3. Hyoscine 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 Anhydrous	13.5	Chloride	65
Potassium Chloride	1.5	Glucose Anhydrous	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. Methylprednisolone 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 |
|-------------|--|

- | | |
|--|--------------------|
| 2. Insulin Soluble/ Neutral Human, Procain & 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 & 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 | Inject able solution, each 1000ml contains: |

Normal)

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 Sodium
Succinate

Injection, 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
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 1ml 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 + Magnesium oxide)	Powder, 2parts+1part+1part

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
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%

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 oxid	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 **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
Dextrosein 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 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^{++} 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

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 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 SURGERY SPECIALITY CLINIC

NAME	Dosage form and Dose
Adrenaline (Epinephrine)	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 with Saline	Injection, 5% in 500ml, 1000ml; 10% in 500ml, 1000ml
Diclofenac	Injection, 25mg/ml in 3ml ampoule, 75mg/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% (Normal Saline), 10ml, 20ml, 500ml, 1000ml; 235mg/ml, 3% in 500ml Injection, 30%- 30mg in 10ml
Phytomenadione (Vitamin K)	Injection, 10mg/ml in 1ml ampoule

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
LidocaineHydrochloride	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	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 CHEST SPECIALITY CLINIC

NAME	Dosage form and Dose
Albuterol	Oral inhalation (aerosol), 0.1mg/dose Nebulizer Solution, 2.5mg/2.5ml
Adrenaline (Epinephrine)	Injection, 0.1% in 1ml ampoule, 1:1000 1mg/ml
Aminophylline	Injection, 250mg/10ml in 10 & 20ml
Dextrose	Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml
Dextrose with Saline	Injection, 5% in 500ml, 1000ml; 10% in 500ml, 1000ml
Dobutamine	Powder for injection, 250mg
Dopamine	Injection , 40mg/ml
Fluticasone + Salmeterol	Aerosole, 100mcg + 50mcg/dose, 250mcg + 50mcg, 500mcg + 50mcg
Hydrocortisone Sodium Succinate	Injection, 50mg/ml
Ipratropium	Aerosol Solution, 20mcg/metered inhalation; 400mcg/metered inhalation
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

Norepinephrine	Injectable solution, 1mg/ml
Oxygen Inhalation	
Promethazine	Injection, 25mg/ml
Sodium Chloride	Injection 0.9% (Normal Saline), 10ml, 20ml, 500ml, 1000ml; 235mg/ml, 3% in 500ml Injection, 30%- 30mg in 10ml

EMERGENCY MEDICINES LIST FOR **MEDIUM DENTAL 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 **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 LIST FOR **PRIMARY** 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
Dextrose	Injection, 5% in 500ml, 1000ml, 10% in 500ml, 1000ml, 40% in 20ml; 50% in 50ml
Dextrosein 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 LIST FOR 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 book 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

Name	Organization	Profession
Abraham G/giorges	WHO	Pharmacist
Afework Nida	FMHACA	Pharmacist
Dessie Kiber	Amhara Health Bureau	P.Nurse
Dr. Ayenalem Abraha	PHSP-E	Oncologist
Dr. Petros Mitiku	PHSP-E	Physician
Dr.Kedier Abo	Halleluiah Higher Clinic	Physician
Dr.Selamawit Ashagre	Police Hospital	Gynecologist
Dr.TekleAb Zaid	PHSP-E	Physician
Dr.Yilikal Adamu	Addis Ababa University	Ophthalmologist
Ermias Mulugeta	Bethzatha Health center	Physician
Ephrem Abebe	School of Pharmacy AAU	Pharmacologist
Fekerte Sahlu	Life Addis H.c	Nurse
Fetlewiwork Haile	Addis Ababa Regional Health Bureau	P.Nurse
Gebriel Lishan	Black Lion Hospital	Pharmacist
Gebru w/maiden	E PA	Pharmacist
Kaleb Terefe	SNNPR Regional Health Bureau	Pharmacist
K/Mariam G/Michal	FMHACA	Pharmacist
Kebebush Omer	Amen Dental.	Physician
Mastewal Kerebih	FMHACA	Health Officer (MPH)
Melaku Hamibisa	Ethiopian Druggist Association	Druggist
Misrak Feleke	St.Paul mellenium medical College	Pharmacist
Netsanet Behabtu	FMHACA	Pharmacist
Prof. Eyasu Makonnen	FM-AAU	Pharmacologist
Redae G/tsadik	Tigray Regional Health Bureau	Pharmacist
Raey Yohannes	FMHACA	Pharmacologist
Sara Tesfaye	Dr Nega ENT Clinic	P.Nurse
Shibru Asfaw	Bethzatha Higher Clinic	Physician

Tesfaye Bayou	TAZMA	Physician
Tesfaye Worku	Meskerem MCH clinic	Gynecologist
Teshita Shute	Kenema Pharmacy	Pharmacist
Worku Tesfa	Beza medium Clinic	Health officer
Yusuf Edris	FMHACA	Pharmacist
Yeshialem Bekele	FMHACA	BSC nurse
Abraham G/Giorgis (Ato)	WHO	Pharmacist
Ajema Bekele(Ato)	FMHACA	Pharmacist
Atlaw Abate(Ato0	FMHACA	Pharmacist
Chalelgn Kassaw (Ato)	Amanuel hospital	Pharmacist
Dagne Seyife (Ato)	Police Hospital	Pharmacist
Debalke fanta(Ato)	FMHACA	Pharmacist
Dereje Yemane (Ato)	FMHACA	Pharmacist
Edgegayehu Yeshitela (W/t)	FMHACA	Pharmacist
Edmealem Ejigu (Ato)	USAID/SIAPS	Pharmacist
Elias Afework	Addis Ababa FMHACA	Pharmacist
Elias Hailu (Ato)	Korea Hospital	Pharmacist
Elias Temiru(Ato)	ZAF pharmaceutical	pharmacist
Fettework negatu	Zogdom Pharmacy	pharmacist
Girma Tefera (Ato)	FMHACA	Pharmacist
Kadir Abdela (Dr.)	Haleluya Clinic	Medical Doctor/GP
Mahlet Dejene(W/t)	FMHACA	Pharmacist
Marta Kassaye(w/t)	FMHACA	Pharmacist
Meleku Hambisa (Ato)	Ethiopian Druggists Association	Druggist
Mesele Derese (Ato)	Labora pharmaceutical	Pharmacist
Natinael Taye (Dr.)	Addis Cardiac Hospital	Internist
Nitsuh Kossye (Dr.)	AMH	Medical Doctor/GP
S/R Habtamnesh Engdaw	Yekatit 12 hospital	Pharmacist
Seble Shambel (W/O)	FMHACA	Pharmacologist
Walellegn w/Senbet	St. Paulos Millinium medical college	Pharmacist
Yisalemush Mulatu (Dr.)	Africa Higher Clinic	Medical doctor/GP

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