

VEN CLASSIFICATION

of

The 3rd Pharmaceuticals Procurement List



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ACKNOWLEDGEMENT

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FORWARD

Pharmaceutical products are an indispensable component of effective modern health systems, and managing access is crucial for ensuring that people have the affordable, quality health care they need for healthy lives. Increased global access to essential medicines and other health products has saved, and improved the quality of, millions of lives (Center for Global Development, 2019).

The Ethiopian Pharmaceuticals Supply Service (EPSS) is a public institute entrusted with the responsibility of ensuring a continuous supply of quality-assured essential pharmaceuticals at affordable prices to all public health facilities in Ethiopia.

EPSS has developed and implemented the Pharmaceuticals Procurement List (PPL) since 2018 and recently released the 3rd edition of the PPL. Upon implementation, the PPL is expected to significantly improve the availability of pharmaceuticals at service delivery points. As a significant step in implementing the PPL, EPSS has been deploying the VEN product classification system for a rationalized decision-making tool when prioritization is a must.

A rational VEN classification process requires a serious consideration of the public health impact of each product and the engagement of all relevant stakeholders and expertise in the process. Hence during this round of VEN Classification exercise EPSS effectively collaborated with its partners to make sure relevant stakeholders and experts are well mapped and actively involved, accordingly various professional associations, senior practicing clinicians, pharmacists, and nurses were participated and contributed in the VEN classification of the 3rd edition PPL.

With such an inclusive and comprehensive process, EPSS is highly delighted to present the VEN classification of the third edition of the Pharmaceuticals Procurement List.

EPSS is committed for applying this VEN classification in all its logistics and supply chain management processes for possible optimization of our operations.

We call upon all stakeholders to provide necessary support for the effective implementation of the VEN classification and to continue offering their assistance in updating it by providing comments and suggestions through the EPSS website (www.epss.gov.et) or via mail (P.O. Box 21904, Addis Ababa).

Signature _____

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INTRODUCTION

The Ethiopian Pharmaceuticals Supply Service (EPSS) is a governmental pharmaceuticals procurement and supply Service established with a mission to supply quality assured pharmaceuticals to public health facilities at an affordable price in a sustainable manner.

Medicines are expensive and rate limiting components for health care delivery. And as resources are always limited, prioritization decisions must always be made to effectively utilize limited resources for the right purpose.

However, these decisions need always to be made based on rational and effective methodologies. The VEN system is a Proven managerial tool for such a time in medicines management process.

The VEN System was developed in Sri Lanka, where it was first applied to importations by the state pharmaceuticals corporation. All Pharmaceuticals procured by the corporation were reviewed by a clinical pharmacologists and assigned to one of the three categories. Since the first edition of the book in 1981, the VEN approach has been adapted and used in other countries around the world.

The VEN System is a system of setting priorities for selection, procurement, and use, in which medicines are divided according to their health impact into vital, essential, and nonessential categories.

- › **V- Vital Medicines** are potentially lifesaving and crucial for providing basic health services. Have significant withdrawal side effect (Making regular supply mandatory) Should be available at all times.
- › **E- Essential Medicines** are effective against less severe but nevertheless significant forms of illness but are not absolutely vital to providing basic health care
- › **N- Nonessential Medicines** are used for minor illnesses are of questionable efficacy or have a comparatively high cost for a marginal therapeutic advantage.

However, considering all pharmaceuticals listed in the PPL are already essential medicines, classifying items in non-essential category (N) is not found necessary and hence excluded.

The VEN Classification is not a one-time activity. As the PPL is updated and as public health priorities change the VEN classification should be also reviewed and updated. Any new drug added to the list should be categorized appropriately and category assignments for older medicines should be reviewed and changed if needed.

Because of its broad implications for procurement and use, VEN classification is best done by a designated expert committee. The classification should be determined primarily based on the public health impact of individual medicines. Unit price should be an important but secondary consideration. Popularity of medications should have minimal influence in the process. VEN Classification can be done at national, sub-national or HF level.

This VEN classification of the 3rd PPL will be used at national level, therefore, subnational level users and health facilities can adapt it with reasonable consideration of their peculiar contexts.

NB: This VEN Classification covers only RDF Pharmaceuticals.

Application of the VEN classification

The VEN Classification has many important applications and mentioned below are some of them that will be given a due attention in EPSS operations.

- › **Selection:** Vital medicines should be given priority in selection when funds are short.
- › **Order monitoring:** Orders for vital Pharmaceuticals should be monitored closely as shortage in these items require expensive air shipment.
- › **Safety stock:** Safety stocks should be higher for vital items.
- › **Order quantities:** If funds are short, the VEN system should be used to ensure that enough quantities of vital pharmaceuticals are bought first.
- › **Stock control:** Special attention should be paid to stock levels of vital items to avoid stock outs.
- › **Supplier selection:** Only reliable suppliers should be used for vital Pharmaceuticals. Quality and service for new and unknown suppliers can be tested by awarding them contracts for non – vital items.
- › **Use:** Review of usage by VEN categories may suggest under use of vital or overuse of essential items. VEN category can be compared with ABC analysis to monitor how well actual use compares with priorities.
- › **Assignment of staff:** Inventory control staff that is more experienced or more skilled should be assigned to keep track of vital items.

In the VEN Classification of the 3rd edition PPL we have adopted the following Guideline for VEN categorization.

Characteristic of medicine or target condition	Vital	Essential	Nonessential
Occurrence of target condition			
Persons affected (percent of population)	Over 5	1–5	Less than 1
Persons treated (number per day at average health center)	Over 5	1–5	Less than 1
Severity of target condition			
Life-threatening	Yes	Occasionally	Rarely
Disabling	Yes	Occasionally	Rarely
Therapeutic effect of medicine			
Prevents serious disease	Yes	No	No
Cures serious disease	Yes	Yes	No
Treats minor, self-limited symptoms and conditions	No	Possibly	Yes
Has proven efficacy	Always	Usually	May or may not
Has unproven efficacy	Never	Rarely	May or may not

Key Process of the VEN Classification of the 3rd PPL

The VEN Classification of the 3rd edition Pharmaceuticals Procurement list (PPL) was undertaken by a national lead taskforce led by the Quantification and Market Shaping Directorate (QMSD) of the Ethiopian Pharmaceuticals Supply Service (EPSS). The members of the lead taskforce are comprised from MoH, WHO, CHAI and RTSL.

The first workshop was organized on Tuesday, January 30, 2024 where the lead task force members, professional association delegates and Senior Practicing clinicians attended and undertake the VEN classification per the principles and guidelines of VEN Categorization and giving a special consideration for disease management protocols and clinical importance of the pharmaceuticals.

The second workshop was held consecutively from 31st of January to February 05, 2024 where participants from the lead task force, EPSS HO and branches, Ethiopian Food and Drug Authority (EFDA), Ethiopian Health Insurance Service (EHIS) were attended and perform the VEN classification based on per the principles and guidelines of VEN Categorization where special emphasis was given for the market, logistics and supply chain management aspects.

There was a variation on results of the two workshops as different perspectives was considered and therefore, the lead taskforce organized a reconciliation workshop and produce the final VEN Classification of the 3rd Pharmaceuticals Procurement List.

The VEN Classification of the 3rd PPL - Summary

S/N	Category	# of items categorized as Vital (V)	# of items categorized as Essential (E)	Total
1. REGULAR MEDICINES				
1.1. ANTI-INFECTIVES				
1.1.1	Antibacterial Medicines	10	19	29
1.1.2	Antifungal Medicines	0	5	5
1.1.3	Anthelmintic Medicines	0	4	4
1.1.4	Antiprotozoal Medicines	1	3	4
1.1.5	Antivirals, And Anti Hepatitis Medicines	0	3	3
1.2. CARDIOVASCULAR MEDICINES				
1.2.1	Antiplatelet, Antiarrhythmic, Antihypertensive, Angina, and Antilipidemic Agents	10	8	18
1.2.2	Medicines Used for Vascular Shock, Heart Failure, and Diuretics	8	5	13
1.3. CENTRAL NERVOUS SYSTEM MEDICINES				
1.3.1	Analgesics, Pain Management and Palliative Care Medicines	4	7	11
1.3.2	Anticonvulsants, Mood Stabilizers	7	8	15
1.3.3	Anti-Depressant, and Anti Parkinson Medicines	4	5	9
1.3.4	Antipsychotic, Hypnotics and Anxiolytic Medicines	10	12	22
1.4. MEDICINES USED IN ENDOCRINE DISORDER AND CONTRACEPTIVES				
1.4.1	Medicines Used for Blood Sugar Management/Ant diabetic	4	3	7
1.4.2	Corticosteroids Preparation/Medicines Used in Allergic Emergencies	2	3	5
1.4.3	Thyroid Hormone and Anti-Thyroid Agents, And Female Sex Hormone Preparations	2	4	6
1.5. MEDICINES USED IN ANESTHESIA				
1.5.1	General and Local Anesthetics	8	1	9

1.5.2	Anesthetics Adjuncts and Adjuvants, And Neuromuscular Blockers	4	0	4
1.6. GASTROINTESTINAL MEDICINES				
1.6.1	Gastrointestinal Medicines	3	11	14
1.7. RESPIRATORY MEDICINES				
1.7.1	Respiratory Medicines	3	3	6
1.8. ANTIHISTAMIN MEDICINES				
1.8.1	Antihistamine Medicines	0	5	5
1.9. CORRECTING FLUID, ELCTROLYTE & ACID BASE BALANCE				
1.9.1	Parenteral, and Oral Electrolyte	6	3	9
1.10. CORRECTING FLUID, ELCTROLYTE & ACID BASE BALANCE				
1.10.1	Anticoagulants, and Antianemic	3	1	4
1.11. MEDICINES USED IN MUSKULOSKELETAL AND JOINT DISEASE				
1.11.1	Antirheumatics, Antigout	0	7	7
1.12. OPHTHALMIC AGENTS, EAR, NOSE AND THROAT PREPARATION				
1.12.1	Ophthalmic agent, ENT Preparations	5	13	18
1.13. DERMATOLOGICAL AGENTS				
1.13.1	Dermatological Agents	1	13	14
1.14. VITAMIN AND MULTIVITAMIN PREPARATIONS				
1.14.1	Vitamin and Multivitamin Preparations	1	4	5
1.15. SERA AND IMMUNOGLOBULIN				
1.15.1	Sera and immunoglobulin	4	0	4
1.16. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONING				
1.16.1	Antidotes and other substances used in poisoning	2	0	2
1.17. MISCELLANEOUS				
1.17.1	Miscellaneous	1	1	2
<u>Medicines Totals</u>		<u>103</u>	<u>151</u>	<u>254</u>

Note:

There are 54 Anticancer medicines and among them 48 are categorized as Vital (V) and 6 of them are essential (E).

2. REGULAR LABORATORY COMMODITIES

2.1. CHEMICALS AND STAINS				
2.1.1.	Gram Stain Reagents	4	0	4
2.1.2.	Blood Film and Morphology Stains	1	5	6
2.2. SEROLOGY AND IMMUNOASSAY				
2.2.	Serology and Immunoassay	9	11	20
2.3. IMAGING CHEMICALS AND SUPPLIES				
2.3.	Imaging chemicals and supplies	3	1	4
2.4. LABORATORY SUPPLIES				

2.4.	Laboratory supplies	12	10	22
2.5. MISCELLANEOUS CHEMICALS				
2.5.	Miscellaneous chemicals	3	6	9
Lab Commodities Totals		<u>32</u>	<u>33</u>	<u>65</u>
3. REGULAR SUPPLIES				
3.1. Dressing Supplies				
3.1.	Dressing Supplies	2	5	7
3.2. Injection Supplies				
3.2.	Injection Supplies	8	7	15
3.3. Protective Supplies				
3.3.	Protective supplies	4	1	5
3.4. Surgical Sutures				
3.4.	Surgical Supplies	14	18	32
3.5. Tubes and Drains				
3.5.	Tubes and Drains	24	27	51
3.6. Miscellaneous				
3.6	Miscellaneous	5	9	14
Supplies Totals		<u>67</u>	<u>67</u>	<u>124</u>
4. ROUTINE MEDICAL DEVICE				
4.	Routine Medical devices	31	31	62
Supplies Totals		<u>31</u>	<u>31</u>	<u>62</u>

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S. N	Item Description	Unit	VEN
1. REGULAR MEDICINES			
1.1.ANTI-INFECTIVES			
1.1.1. Antibacterial Medicines			
1	Amoxicillin - 250mg/5ml - Oral Suspension	100ml	E
2	Amoxicillin - 500mg – Capsule	50X10	E
3	Amoxicillin + Clavulanic Acid - (200mg + 28.5mg)/5ml - Oral suspension	100ml	E
4	Amoxicillin + Clavulanic Acid - (400mg + 57mg)/5ml - Oral Suspension	100ml	E
5	Amoxicillin + Clavulanic Acid - (500mg + 125mg) - Tablet (Film Coated)	5x3	V
6	Ampicillin Sodium - 500mg in Vial - Injection	50	V
7	Azithromycin - 200mg/5ml - Oral Suspension	15ml	V
8	Azithromycin - 500mg – Tablet	10x3	V
9	Cefepime - 1gm in Vial - Powder for Intravenous and Intramuscular Injection with Diluent	Each	E
10	Cefixime - 400mg - Tablet	7x2	E
11	Ceftazidime - 1g in vial - Powder for Intravenous and Intramuscular Injection with Diluent	Each	V
12	Ceftriaxone - 0.5g in Vial - Powder for Intravenous and Intramuscular Injection with 5ml Diluent	Each	E
13	Ceftriaxone - 1g in vial - Powder for Intravenous and Intramuscular with 10ml Diluent	Each	V
14	Cephalexin - 250mg/5ml - Oral Suspension	100ml	E
15	Cephalexin - 500mg – Capsule	10x10	E
16	Ciprofloxacin - 2mg/ml - Intravenous Infusion (as lactate)	100ml	V
17	Ciprofloxacin - 500mg – Tablet	10x10	V
18	Clarithromycin - 500mg – Tablet	10x10	E
19	Cloxacillin - 500mg - Powder for injection	50	E
20	Cloxacillin Sodium - 250mg/5ml - Oral Suspension	100ml	E
21	Cloxacillin Sodium - 500 mg – Capsule	50X10	E
22	Doxycycline - 100mg – Capsule	20x10	E
23	Gentamycin - 40mg/ml in 2ml - Intravenous and Intramuscular Injection	10x10	E

24	Meropenem - 1gm in vial - powder for intravenous injection with 10ml diluent	Each	V
25	Penicillin G, Benzathine - 2.4 MIU - Injection	100	E
26	Penicillin G, Sodium Crystalline - 1 MIU - Injection	100	E
27	Sulphamethoxazole + Trimethoprim - (200mg + 40mg)/5ml – Suspension	100ml	E
28	Sulphamethoxazole + Trimethoprim - (400mg + 80mg) – Tablet	100x10	E
29	Vancomycin - 1gm – Intravenous powder for injection with diluent	Each	V
1.1.2. Antifungal Medicines			
30	Clotrimazole - 100mg - Tablet (Vaginal)	6	E
31	Fluconazole - 200mg – Tablet	10x10	E
32	Griseofulvin - 250mg – Tablet	10x10	E
33	Miconazole - 2% - Oral Gel	40gm	E
34	Miconazole Nitrate - 200mg - Tablet (Vaginal)	6	E
1.1.3. Anthelmintic Medicines			
35	Albendazole - 100mg/5ml - Oral Suspension	20ml	E
36	Albendazole - 400mg – Tablet	50x2	E
37	Mebendazole - 100mg – Tablet	40x6	E
38	Praziquantel - 600mg – Tablet	10x10	E
1.1.4. Antiprotozoal Medicines			
39	Metronidazole - 125mg/5ml - Oral Suspension	100ml	E
40	Metronidazole - 250mg – Capsule	100x10	E
41	Metronidazole - 5mg/ml - Intravenous Infusion	100ml	V
42	Tinidazole - 500 mg – Tablet	60x4	E
1.1.5. Antivirals, And Anti Hepatitis Medicines			
43	Acyclovir - 200mg – Capsule	10x10	E
44	Acyclovir - 500mg - Powder for injection with Diluent	Each	E
45	Tenofovir disoproxil fumarate (TDF) - 300mg – Tablet	30	E
1.2. CARDIOVASCULAR MEDICINES			
1.2.1. Antiplatelet, Antiarrhythmic, Antihypertensive, Angina, and antilipidemic Agents			
46	Acetylsalicylic Acid - 81mg - Tablet (Enteric Coated)	20x10	V
47	Amiodarone - 50mg/ml in 5ml - Intravenous injection	5	V
48	Amlodipine - 10mg – Tablet	10x10	V
49	Amlodipine - 5mg – Tablet	10x10	V
50	Atenolol - 50mg – Tablet	10x10	E
51	Atorvastatin - 20mg – Tablet	10x10	V
52	Atorvastatin - 40mg – Tablet	10x10	E

53	Atropine Sulfate - 1mg/ml in 1ml ampoule - Injection	10x10	V
54	Carvedilol - 12.5mg - Tablet	10x10	E
55	Carvedilol - 25mg – Tablet	10x10	E
56	Clopidogrel -75mg - Tablet	10x10	E
57	Enalapril Maleate - 10mg - Tablet	10x10	E
58	Enalapril Maleate - 5mg – Tablet	10x10	V
59	Hydralazine - 20mg/ml in 1ml ampoule - Injection	5	V
60	Lisinopril -10mg - Tablet	10x10	V
61	Methyldopa - 250mg – Tablet	100x10	E
62	Metoprolol Tartrate - 1mg/mL in 1mL - Intravenous injection	Each	V
63	Nifedipine - 20mg – Tablet	10x10	E
1.2.2. Medicines Used for Vascular Shock, Heart Failure, and Diuretics			
64	Adrenaline (Epinephrine) - 0.1% in 1ml ampoule – Intravenous Injection	10	V
65	Captopril - 25mg – Tablet	10x10	E
66	Digoxin - 0.25mg – Tablet	10x10	E
67	Dopamine Hydrochloride - 40mg/ml in 5ml Ampoule – Injection	5	V
68	Furosemide - 10mg/ml in 2ml ampoule - Intravenous and Intramuscular Injection	10	V
69	Furosemide - 40mg – Tablet	10x10	E
70	Glyceryl Trinitrate (Nitroglycerine) - 0.4mg - Tablet (Sublingual)	10x10	V
71	Hydrochlorothiazide - 25mg – Tablet	10x10	V
72	Mannitol - 20% in 500ml - Intravenous Infusion	500ml	V
73	Metoprolol succinate - 25mg – Tablet	10 x10	V
74	Metoprolol succinate - 50mg – Tablet	10 x10	E
75	Noradrenaline - 4mg/2ml in 2ml - Intravenous injection	5	V
76	Spironolactone - 25mg – Tablet	10x10	E
1.3. CENTRAL NERVOUS SYSTEM MEDICINES			
1.3.1. Analgesics, Pain Management and Palliative Care Medicines			
77	Gabapentin - 150 mg - Tablet	10x3	E
78	Morphine Sulfate - 10mg/ml – Intravenous and intramuscular Injection	10	V
79	Morphine Sulfate - 20mg/5ml – Syrup	125ml	E
80	Morphine Sulfate - 30mg – Tablet	10x10	E
81	Paracetamol - 120mg/5ml – Syrup	60ml	E
82	Paracetamol - 125mg - Suppository	10x10	E
83	Paracetamol 500 mg tablet	100x10	E

84	Pethidine HCL - 50mg/ml in 1ml Ampoule - Intravenous and intramuscular Injection	10	V
85	Sumatriptan -50mg – Tablet	10	V
86	Tramadol HCl - 50mg – Capsule	10x10	E
87	Tramadol HCl - 50mg/ml in 2ml ampoule -Intravenous and intramuscular powder for injection	10	V
1.3.2. Anticonvulsants, Mood Stabilizers			
88	Carbamazepine - 100mg/5ml – Syrup	100ml	E
89	Carbamazepine - 200mg – Tablet	10x10	V
90	Clonazepam - 0.5mg – Tablet	10x3	V
91	Clonazepam - 2mg – Tablet	10x3	E
92	Ethiosuxamide - 250mg/5ml - Oral syrup	300ml	E
93	Lamotrigine - 50mg- Tablet	10x10	E
94	Lithium Carbonate - 300mg – Tablet	10x10	E
95	Phenobarbitone (Phenobarbital) - 100mg - Tablet	100x10	V
96	Phenobarbitone (Phenobarbital) - 30mg - Tablet	100x10	E
97	Phenytoin (Diphenhydantoin) Sodium - 100mg - Tablet	100	V
98	Phenytoin (Diphenylhydantoin) Sodium - 250mg/5ml - Intravenous and intramuscular powder for injection with diluent	Each	V
99	Phenytoin (Diphenylhydantoin) Sodium - 50mg - Tablet	200	E
100	Sodium Valproate - 200mg - Tablet (enteric coated)	10x10	V
101	Sodium Valproate - 200mg/5ml – Syrup	300ml	V
102	Sodium Valproate - 500mg – Tablet (enteric coated)	10x10	E
1.3.3. Anti-Depressant, and Anti Parkinson Medicines			
103	Amitriptyline - 25mg – Tablet	25x10	V
104	Benzhexol (Trihexyphenidyl HCL) - 2mg - Tablet	10x10	V
105	Benzhexol (Trihexyphenidyl HCL) - 5mg - Tablet	10x10	E
106	Bupropion - 75mg - Tablet (sustained-release)	10x10	E
107	Clomipramine HCL - 25mg – Tablet	25x10	E
108	Fluoxetine - 20mg – Capsule	10x2	V
109	Imipramine - 25mg – Tablet	10x10	E
110	Levodopa + Carbidopa - (250 mg + 25 mg) - Tablet	10x3	V
111	Sertraline HCL - 50mg – Tablet	10x10	E
1.3.4. Antipsychotic, Hypnotics and Anxiolytic Medicines			
112	Bromazepam - 3mg – Tablet	10x10	V
113	Chlorpromazine Hydrochloride - 100mg - Tablet	100x10	V
114	Chlorpromazine Hydrochloride - 25mg - Tablet	100x10	E
115	Chlorpromazine Hydrochloride - 25mg/2ml in 2ml Ampoule – Injection	10	E

116	Clozapine - 100mg – Tablet	10x5	V
117	Diazepam - 5 mg/ml in 2ml ampoule - Intravenous and intramuscular injection	10	V
118	Diazepam - 5mg – Tablet	10x10	E
119	Fluphenazine Decanoate - 25 mg/ml in 2ml Ampoule - Injection (Depot, oily)	10	V
120	Haloperidol - 1.5mg – Tablet	10x10	E
121	Haloperidol - 5mg – Tablet	10x10	E
122	Haloperidol - 5mg/ml in 1ml Ampule - Injection	10	V
123	Lorazepam - 1mg – Tablet	10x10	E
124	Lorazepam - 1mg/ml - Intravenous and intramuscular injection	Each	E
125	Methadone Hydrochloride - 10mg -Tablet	10x10	E
126	Methylphenidate - 5mg - Tablet	10x10	V
127	Olanzapine - 5mg – Tablet	10x10	V
128	Quetiapine - 200mg – Tablet	10x10	E
129	Risperidone - 2mg – Tablet	10x10	V
130	Risperidone - 4mg – Tablet	10x10	E
131	Risperidone -50mg/2ml in 2ml - intramuscular injection with diluent (Depot)	Vial	V
132	Trifluoperazine HCL - 1mg – Tablet	10x10	E
133	Trifluoperazine HCL - 5mg – Tablet	10x10	E
1.4. MEDICINES USED IN ENDOCRINE DISORDER AND ONTRACEPTIVES			
1.4.1. Medicines Used for Blood Sugar Management/Ant diabetics			
134	Glibenclamide - 5mg – Tablet	10x10	V
135	Glimepiride -2mg – Tablet	10x10	E
136	Insulin Isophane Biphasic (Soluble/Isophane Mixture) - (30 + 70)IU/ml in 10ml Vial - Injection (Suspension)	Each	E
137	Insulin Isophane Human - 100IU/ml in 10ml Vial - Injection (Suspension)	Each	V
138	Insulin Soluble Human - 100IU/ml in 10ml Vial - Injection	Each	V
139	Metformin - 500mg – Tablet	10x10	V
140	Metformin - 850mg – Tablet	10x10	E
1.4.2. Corticosteroids Preparation/Medicines Used in Allergic Emergencies			
141	Dexamethasone - 4mg – Tablet	10x10	E
142	Dexamethasone - 4mg/ml in 2ml Ampoule - Injection	5	V
143	Hydrocortisone Sodium Succinate - 50mg/ml in 2ml ampoule - Intravenous and intramuscular Injection with diluent	Each	V

144	Methyl Prednisolone - 40mg/ml in 1ml ampoule - Intramuscular injection	Each	E
145	Prednisolone - 5 mg – Tablet	100x10	E
1.4.3. Thyroid Hormone and Anti-Thyroid Agents AND Female Sex Hormone Preparations			
146	Carbimazole - 5mg – Tablet	10x10	E
147	Clomiphene Citrate - 50mg – Tablet	10x3	E
148	Norethindrone (Norethisterone) - 5mg - Tablet	10x3	E
149	Propylthiouracil - 100mg - Tablet (Scored)	100	V
150	Thyroxin Sodium - 0.05mg – Tablet	10x10	E
151	Thyroxin Sodium - 0.1mg – Tablet	10x10	V
1.5. MEDICINES USED IN ANESTHESIA			
1.5.1. General and Local Anesthetics			
152	Bupivacaine hydrochloride - 0.5% in 4ml ampoule - Spinal injection	5	V
153	Fentanyl - 50 mcg/ml in 2ml ampule - Injection	5	V
154	Halothane – Inhalation	250ml	V
155	Isoflurane inhalation	250ml	V
156	Ketamine HCL - 50 mg/ml in 10ml Ampoule Injection – Injection	Each	V
157	Propofol - 10mg/ml in 20ml - Intravenous injection	5	V
158	Thiopental Sodium - 500mg in vial - Powder for intravenous injection	50	V
159	Lidocaine HCL - 2% in 50ml – Injection without preservative	25	V
160	Lidocaine HCL + Adrenaline - (2%+1:200000IU) in 20ml Vial – Injection	25	E
1.5.2. Anesthetics Adjuncts and Adjuvants, And Neuromuscular Blockers			
161	Neostigmine - 2.5mg/ml in 1ml Ampoule - Intravenous and intramuscular injection	10	V
162	Soda Lime, Carbon Dioxide Adsorbent - Aerosol	4.5kg	V
163	Suxamethonium Chloride (Succinylcholine) - 50 mg/ ml in 10ml Vial - Intravenous and intramuscular powder for injection	25	V
164	Vecuronium Bromide - 10 mg in vial - Powder for intravenous injection with diluent	Each	V
1.6. GASTROINTESTINAL MEDICINES			
165	Aluminium Hydroxide + Magnesium Hydroxide + Simethicone + Sodium Alginate- (125mg + 150mg + 50mg + 100mg)/5ml – Oral Suspension	200ml	E

166	Anti-haemorrhoidal (Betamethasone Valerate + Phenylephrine HCl + Lidocaine HCl) - (0.5mg+1mg+25mg) – Ointment	20gm	E
167	Anti-haemorrhoidal (Hydrocortisone + Framycetin + Cinchocaine + Esculoside) - (5mg + 10mg + 5mg 10mg) - Suppository	10	E
168	Bisacodyl - 5mg – Tablet	10x10	E
169	Cimetidine - 200mg/ml in 2ml ampoule - Intravenous Injection	10	V
170	Glycerin - 1 gm – suppository	5	E
171	Hyoscine (Scopolamine) Butyl bromide - 10mg - Tablet	10x10	E
172	Metoclopramide - 0.2mg/drop - Oral Drop	15ml	E
173	Metoclopramide - 10mg - Tablet	10x10	E
174	Metoclopramide - 5mg/5ml – Syrup	60ml	E
175	Metoclopramide - 5mg/ml in 2ml ampoule - Injection	10	V
176	Omeprazole - 20 mg - Capsule (Enclosing Enteric Coated Granules)	10x10	E
177	Omeprazole - 4mg/ml in 10ml – Intravenous injection with diluent	Each	V
178	Pantoprazole 40mg enteric coated Tablet	10x10	E
1.7. RESPIRATORY MEDICINES			
179	Aminophylline - 250mg/10ml in 10ml Ampoule - Injection	5	V
180	Beclomethasone dipropionate - 100mcg/dose - Aerosol (Oral Inhalation)	200Meterdose	V
181	Dextromethorphan Hydrobromide - 15mg/5ml - Syrup	125ml	E
182	Salbutamol - 0.1mg/dose - Aerosol (Oral Inhalation)	200metered doses	V
183	Salbutamol- 2mg/5ml - Syrup	100ml	E
184	Salbutamol- 4mg – Tablet	10x10	E
1.8. ANTHISTAMINE MEDICINES			
185	Chlorpheniramine Maleate - 2mg/5ml - Syrup	100ml	E
186	Chlorpheniramine Maleate - 4mg - Tablet	10x10	E
187	Diphenhydramine Hydrochloride - 12.5mg/5ml - Elixir	125ml	E
188	Loratadine - 10mg - Tablet	10x10	E
189	Loratadine - 5mg/5ml – Syrup	100ml	E
1.9. CORRECTING FLUID, ELCTROLYTE & ACID BASE BALANCE			
1.9.1. Parenteral, And Oral Electrolyte			
190	Dextrose - 40% in 20ml - Intravenous Infusion	50	V
191	Dextrose in Normal Saline - (5% + 0.9%) - Intravenous Infusion with Giving Set	1000ml	E

192	Dextrose in Water - 5% - Intravenous Infusion with Giving Set	1000ml	E
193	Oral Rehydration Salt - 20.5gm (sodium chloride 2.6gm + Trisodium citrate Dihydrate 2.9gm + Potassium Chloride 1.5gm + Glucose 13.5gm) for 1 Litre Preparation –Powder	Sachet	V
194	Potassium Chloride - 150mg/ml in 10ml ampoule - intravenous injection	10	V
195	Potassium Chloride - 600mg – Tablet	500	E
196	Ringer's Solution - K ⁺ 4mEq + Na ⁺ 130mEq + Ca ⁺ 3mEq + Cl ⁻ 110mEq + Lactate 28mEq - Intravenous Infusion with Giving Set	1000ml	V
197	Sodium Bicarbonate - 8.4% in 25ml ampoule - Intravenous injection	Each	V
198	Sodium Chloride (Normal Saline) - 0.9% - Intravenous Infusion with Giving Set	1000ml	V
1.10. BLOOD PRODUCTS AND MEDICINES AFFECTING THE BLOOD			
1.10.1. Anticoagulants, and Antianemic			
199	Enoxaparin - 60mg/0.6ml - injection	Each	V
200	Ferrous Sulfate - 325mg – Tablet	10x10	E
201	Heparin Sodium - 5000IU/ml in 5ml - Injection	25	V
202	Warfarin Sodium - 5mg – Tablet	10x10	V
1.11. MEDICINES USED IN MUSKULOSKELETAL AND JOINT DISEASE			
1.11.1. Antirheumatics, Antigout			
203	Allopurinol - 100mg – Tablet	10x5	E
204	Diclofenac Sodium - 100mg - Suppository	10	E
205	Diclofenac Sodium - 25mg/ml in 3ml ampoule - Injection	10x10	E
206	Diclofenac Sodium - 50mg – Tablet	10x10	E
207	Ibuprofen - 100mg/5ml- Oral suspension	100ml	E
208	Ibuprofen - 400mg – Tablet	10x10	E
209	Indomethacin - 100mg - Suppository	10	E
1.12. OPHTHALMIC AGENTS, EAR, NOSE AND THROAT PREPARATION			
210	Acetazolamide - 250mg - Tablet	10x10	V
211	Acyclovir - 3% - Eye Ointment	4.5gm	E
212	Artificial Tear (Carboxyl methylcellulose + Hydroxypropyl Methyl Cellulose)	10ml	V
213	Atropine Sulfate - 1% - Eye Drop	15ml	E
214	Chloramphenicol - 0.5% + Dexamethasone 0.1% - Eye Drop	10ml	E
215	Ciprofloxacin +Dexamethasone- 0.3% +0.1% eye drop	10ml	V
216	Ciprofloxacin - 0.3% - Eye/Ear drop	10ml	E
217	Dexamethasone - 0.1% - Eye/Ear drop Suspension	10ml	E

218	Dorzolamide + Timolol Maleate- (2 % + 0.5%) - Eye Drop	5ml	V
219	Dorzolamide 2% eye drop	5ml	E
220	Flurbiprofen - 0.03% - eye drop	5ml	E
221	Latanoprost - 0.005% - eye drop	5ml	E
222	Oxytetracycline HCL + Hydrocortisone Acetate+ Polymixin B - (5mg+15mg+ 10.000 Units)/ml - Eye/Ear drop	5ml	E
223	Sodium Cromoglycate - 2% - Eye Drop	10ml	E
224	Tetracycline - 1% - Eye Ointment	4gm	E
225	Timolol Maleate - 0.5% - Eye Drop	10ml	V
226	Tropicamide - 1% - Eye drop	10ml	E
227	Xylometazoline HCL - 0.1% - Nasal Drops	10ml	E
1.13. DERMATOLOGICAL AGENTS			
228	Betamethasone Dipropionate - 0.05% - Topical Ointment	20gm	E
229	Betamethasone Valerate - 0.1% - Topical Cream	20gm	E
230	Clobetasone - 0.05% - Topical Cream	20gm	E
231	Clotrimazole - 1% - Cream	20gm	E
232	Fusidic Acid - 2% - Topical Cream	15gm	E
233	Hydrocortisone - 1% - Topical Cream	15gm	E
234	Hydrocortisone Acetate - 1% - Topical Ointment	15gm	E
235	Ketoconazole - 2% - Cream	20gm	E
236	Mometasone furoate - 0.1% - Cream	30gm	E
237	Nitrofurazone - 0.2% - soluble dressing- Ointment	30gm	V
238	Permethrin - 0.05 – Topical Cream	30gm	E
239	Sulphur - 10% - Ointment	50gm	E
240	Tetracycline - 3% - Skin Ointment	15gm	E
241	Tretinoin (Retinoic acid) 0.05% Cream	20 gm	E
1.14. VITAMIN AND MULTIVITAMIN PREPARATIONS			
242	Folic Acid - 5mg – Tablet	10x10	V
243	Multivitamin - Syrup	120ml	E
244	Vitamin B Complex Preparations - 2ml - Intravenous and intramuscular Injection	10x10	E
245	Vitamin B1 + Vitamin B6 + Vitamin B12 - (100mg + 100mg +1000mcg) – Injection	3	E
246	Vitamin B1 + Vitamin B6 + Vitamin B12 - (100mg + 200mg + 1000mcg) – Tablet	10x10	E
1.15. SERA AND IMMUNOGLOBULIN			
247	Anti-Rho (D) Immune Globulin - 300mcg in 2ml Vial – Injection	Each	V
248	Human Anti-Rabies - 2.5IU/ml- Intramuscular injection	5	V

249	Snake Venom Antiserum Polyvalent - intravenous injection with Diluent	10ml	V
250	Tetanus Antitoxin (TAT), Equine - 1,500 IU/ml in 1ml Ampoule – Injection	20	V
1.16. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONING			
251	Calcium gluconate - 10% in 10ml Ampoule - Injection	10	V
252	Naloxone HCL - 0.02mg/ml in 2ml ampoule - Intravenous and intramuscular injection	Each	V
1.17. MEDICINES USED FOR BENIGN PROSTATE HYPERPLASIA			
253	Tamsulosin -0.4mg – Tablet	10x10	V
1.18. MISCELLANEOUS			
254	Lubricating Jelly (Glycerin + Methylparaben + Propyl paraben) - (11.25% w/w + 0.1% w/w + 0.04% w/w) – Sterilized	82gm	V
255	Water For Injection - 10ml – Injection	100	E
1.19. ANTI CANCER MEDICINES			
256	Actinomycin-D (Dactinomycin) - 0.5mg in Vial - Powder for Injection	Each	V
257	All Trans Retinoic Acid (ATRA) - 10mg - Tablet	30	V
258	Anastrozole - 1mg - Tablet (Film Coated)	30	V
259	Aprepitant 80mg capsule	1x3	E
260	Arsenic Trioxide (ATO) - 1mg/1ml in 10ml Ampoule– Injection	Each	V
261	Azacitidine - 100mg in Vial - Powder for Injection (Lyophilized)	Each	V
262	Bendamustine Hydrochloride - 100mg in Vial - Powder for Injection (Lyophilized)	Each	V
263	Bleomycin sulfate - 15IU in Vial - Powder for Injection (Lyophilized)	Each	V
264	Bortezomib - 3.5mg in Vial - Powder for Injection (Lyophilized)	Each	V
265	Capecitabine - 500mg – Tablet	10x3	V
266	Carboplatin - 450mg/45ml in Vial – Injection	Each	V
267	Chlorambucil - 2mg – Tablet	25	V
268	Cisplatin - 50mg/50ml - Intravenous Infusion	Each	V
269	Cyclophosphamide - 1gm - in Vial - Injection	Each	V
270	Cyclophosphamide - 200mg - in Vial - Injection	Each	V
271	Cyclophosphamide 50 mg capsule	Each	E
272	Cytarabine - 1000mg/5ml in 5ml Vial – Injection	Each	V
273	Cytarabine - 100mg/5ml in 5ml Vial – Injection	Each	V
274	Dacarbazine - 500mg in Vial - Powder for Injection	Each	V

275	Docetaxel 40mg /ml injection	Each	E
276	Doxorubicin Hydrochloride - 50mg in Vial - Powder for Injection	Each	V
277	Etoposide-50mg Capsule	10x10	E
278	Etoposide - 50mg/2ml in 2ml Ampoule – Injection	Each	V
279	Filgrastim - 300mcg/0.5ml in 0.5ml Ampoule – Injection	5	V
280	Fluorouracil - 50mg/10ml in 10ml Ampoule – Injection	Each	V
281	Folinic Acid - 15mg – Tablet	10x10	E
282	Folinic Acid - 50mg/5ml in 5ml Ampoule – Injection	Each	V
283	Gemcitabine - 1gm in Vial - Powder for Injection	Each	V
284	Goserelin Acetate - 10.8mg – Implant	Each	V
285	Hydroxyurea (Hydroxycarbamide)-500mg-Tablet	100	V
286	Ifosfamide - 1g in Vial - Powder for Injection	Each	V
287	Intrathecal Methotrexate - 50mg - Powder for Injection	Each	V
288	Intrathecal Cytarabine -50mg-injection	Each	V
289	Intrathecal Hydrocortisone - 50mg – Injection	Each	V
290	Irinotecan HCl - 100 mg/5ml in Vial – Injection	Each	V
291	L-Asparaginase - 5,000 IU – Injection	Each	V
292	Lenalidomide - 10mg - Capsule	10x3	V
293	Mercaptopurine - 50mg – Tablet	10x10	V
294	Mesna (Uremitecan) 100mg/ml in 4ml injection	Each	V
295	Methotrexate - 500mg/20ml - Powder for Injection	Each	V
296	Methotrexate - 5mg – Tablet	50	V
297	Nilotinib - 200mg – Capsule	7x4	V
298	Ondansetron - 2mg/ml in 4ml intravenous Injection	Each	V
299	Ondansetron - 8mg – Tablet	10x3	V
300	Oxaliplatin - 50mg/10ml - Powder for Injection	Each	V
301	Paclitaxel - 100mg/16.7ml – Injection	Each	E
302	Paclitaxel - 300mg/50ml – Injection	Each	V
303	Rituximab - 100mg/10ml – Injection	Each	V
304	Rituximab - 500mg/50ml – Injection	Each	V
305	Tamoxifen Citrate - 20mg – Tablet	10x3	V
306	Tranexamic acid - 500 mg – Tablet	10x10	V
307	Vinblastine Sulfate - 1mg/ml in 10ml Vial - Powder for Injection	Each	V
308	Vincristine Sulfate - 2mg - Powder for Injection	Each	V
309	Zoledronic acid - 4mg/5ml in 5ml Ampoule – Injection	Each	V
2. REGULATORY LABORATORY COMMODITIES			
2.1. CHEMICALS AND STAINS			
2.1.1. Gram Stain Reagents			

1	Chemical - Gentian Violet - 1% - Solution	500ml	V
2	Chemical - Acetone Alcohol - 50% - Solution	500ml	V
3	Chemical - Safranin - 0.25% - Solution	500ml	V
4	Chemical - Gram's Iodine - 0.33% - Solution	500ml	V
2.1.2. Blood Film and Morphology Stains			
5	Chemical - Giemsa Stain - 0.76% - Solution	500ml	E
6	Chemical - Methanol Absolute Acetone Free - 99% - Solution	1L	E
7	Chemical - Wright Stain - Powder	25gm	E
8	Chemical - Buffer - PH 7.0 - Tablet	20tab	E
9	Chemical - Immersion Oil - Refractive Index of 1.515 - Viscosity 1250 cSt at 37 °C	100ml	V
10	Chemical - Potassium Hydroxide - 10% - Solution	1L	E
2.2. SEROLOGY AND IMMUNOASSAY			
11	Urine Dipstick 10 Parameters (Blood, Bilirubin, Urobilinogen, Ketone, Protein, Nitrite, Glucose, PH, Specific Gravity, Leucocytes)	100tests	V
12	Serology - Anti Nucleic Antibody (ANA) Immunochromatographic Rapid Test Cassette - Individually Packed	50tests	E
13	Serology - Pregnancy Rapid Test Strip (HCG)- Urine - Individually Packed	50tests	V
14	Serology - Cardiac Troponin Immunochromatographic Rapid Test Cassette - Individually Packed	20tests	E
15	Serology - Alpha Feto Protein (AFP) Immunochromatographic Rapid Test Cassette - Individually Packed	40tests	E
16	Serology - Anti-Human Globulin-AGT (Coombs') IgG and IgM Test Reagent	10ml	E
17	Serology - Anti-Streptolysin O Antibody (ASO) Rapid Test Cassette - Individually Packed	50tests	E
18	Serology - C-Reactive Protein (CRP) Immunochromatographic Rapid Test Cassette - Individually Packed	50tests	E
19	Serology - Anti-A, Anti-B, Anti-D Monoclonal Antibody Test Reagent	3x10ml	V
20	Serology - Cryptococcal Antigen Lateral Flow Reagent Test Strip - Individually Packed	50tests	E

21	Serology - Helicobacter Pylori (H. Pylori) Antigen Immunochromatographic Rapid Test Cassette - Individually Packed -Faeces	50tests	V
22	Serology - Hepatitis BsAg Immunochromatographic Rapid Test Cassette - Individually Packed	30tests	V
23	Serology - Hepatitis C Antibody Immunochromatographic Rapid Test Cassette - Individually Packed	40tests	V
24	Serology - Occult Blood Immunochromatographic Rapid Test Cassette - Individually Packed	50tests	E
25	Serology - Prostate Specific Antigen Immunochromatographic Rapid Test Cassette - Individually Packed	25tests	E
26	Serology - Proteus OX-19 (Weil-felix) Antigen Test Reagent	5ml	V
27	Serology - Syphilis Immunochromatographic Rapid Test Cassette - Individually Packed	40tests	V
28	Serology - Rheumatoid Factor (RF) Immunochromatographic Rapid Test Cassette - Individually Packed	50tests	E
29	Serology - Salmonella Typhi "H" + "O" Antigen Immunochromatographic Rapid Test Cassette - Individually Packed - Faeces	25tests	V
30	Serology - Treponema Pallidum Haem-Agglutination (TPHA) Rapid Test Cassette - Individually Packed	50tests	E
2.3. IMAGING CHEMICALS AND SUPPLIES			
31	Chemical - Gadolinium Chelate with a concentration of 0.5mmol/ml of 15ml Vial or 1mmol/ml of 7.5ml Vial Solution for Injection	15ml/7.5ml	V
32	Chemical - Low Osmolar Iodinated Contrast Media - 350_370mg/ml of 50 ml Vial	10	V
33	Chemical - Ultrasound gel 5 Liter - Plastic Holder	Bag	V
34	Chemical - Ultrasound Print Paper	Roll	E
2.4. LABORATORY SUPPLIES			
35	Laboratory Supplies - Microscope Lens Cleaning Tissue Paper Lint Free: 4x6 inch W (10.1x15.2 cm) Sheets Per Book	100	E
36	Laboratory Supplies - Microscope Lens Cleaning Solution - Non-Flammable: 2 oz	100ml	E
37	Laboratory Supplies - Applicator Stick Wooden 15cm Long Thickness 2.5mm Without Cotton	100	E
38	Laboratory Supplies - Contact Activated Blood Lancet - Disposable Sterile - Retractable - Automatic 2mm	100	V

39	Laboratory Supplies - Capillary Tube Sealer of 2mm Thickness	2x5mm	E
40	Laboratory Supplies - Cover Slides - Rectangular - Size 22x22 mm - Thickness 0.13 mm	100	V
41	Laboratory Supplies - Conical Test Tube - Graduated 10 ml – Plastic	50	V
42	Laboratory Supplies - EDTA Hematocrit Capillary Tube Length 75mm - ID 1.1-1.2mm, OD 1.5-1.6mm - 50µl	100	V
43	Laboratory Supplies - Disposable Plastic Citrated ESR Graduated Pipette Tube -Total length of 200mm and Graduation from 0 to 150mm, Increment of 1mm	100	V
44	Laboratory Supplies - Filter Paper Qualitative Whatman Grade1 Diameter 150 mm	100	E
45	Laboratory Supplies - Micropipette Tips 10-200 µl	1000	V
46	Laboratory Supplies - Micropipette Tips 200-1000 µl	1000	V
47	Laboratory Supplies - Cryogenic Vial - Self Standing - Round Bottom - 2ml	100	E
48	Laboratory Supplies - Microscope Slides - Size 25-27x75 mm - Thickness 1.2mm - Frosted end - with Tissue Paper between each Slide	50	V
49	Laboratory Supplies - Pasteur Pipette - Non - Sterile 3ml – Plastic	500	E
50	Laboratory Supplies - Stool Specimen Container Disposable - Polypropylene with Cover	500	V
51	Laboratory Supplies - Urine Cup Plastic of 40ml	500	V
52	Laboratory Supplies - Vacutainer Blood Collector Tube with EDTA anti-coagulant - Purple Top 4ml - Plastic	100	V
53	Laboratory Supplies - Vacutainer Blood Collector Tube with Tri-sodium citrate anti-coagulant - Blue Top 4ml – Plastic	100	E
54	Laboratory Supplies - Vacutainer Needle Holder	100	E
55	Laboratory Supplies - Vacutainer Needle 21G	100	E
56	Laboratory Supplies - Vacutainer Serum Separator (SS) Tube - Yellow Top 5ml - Plastic	100	V

2.5. MISCELLANEOUS CHEMICALS

57	Chemical - Denatured Alcohol 70% - Solution	Litter	V
58	Chemical - Chlorhexidine Gluconate +Cetrimide 1.5%+15% w/v –Solution	Litter	E
59	Chemical - Iodine Tincture - 2% - Solution	500ml	E
60	Chemical - Lugol's Iodine for Medical Use - 5% - Solution	500ml	V
61	Chemical - Povidone Iodine - 10% - Solution	130ml	E

62	Chemical - Barium Chloride – Powder	500gm	E
63	Chemical - Formalin 37% - Solution	Liter	V
64	Chemical - Glycerin Pure - 98%	1L	E
65	Chemical - Hydrogen Peroxide - 30% - Solution	1L	E
3. REGULAR MEDICAL SUPPLIES			
3.1. Dressing Supplies			
1	Bandage Elastic - 8cmx5m	Each	E
2	Cotton Absorbent Wool - 100gm	Each	E
3	Gauze Bandage - 12.5cmx5m	Dozen	E
4	Gauze Paraffin Sterile with Case - 10cm x 10cm	10	E
5	Gauze Surgical -90cmx100m mesh size 19x15	Roll	V
6	Plaster Of Paris (P.O.P) - 10cmx3m	Dozen	E
7	Plaster Of Paris (P.O.P) - 15cmx3m	Dozen	V
3.2. Injection Supplies			
8	Cannula Intravenous Set - 18G	100	V
9	Cannula Intravenous Set - 20G	100	E
10	Cannula Intravenous Set - 22G	100	E
11	Cannula Intravenous Set - 24G	100	V
12	Spinal Needle 8cm-22G	Each	E
13	Spinal Needle 8cm-23G	Each	V
14	Spinal Needle 8cm-24G	Each	V
15	Spinal Needle 8cm-25G with Guider needle (Trochay)	Each	V
16	Syringe (Disposable) - 10ml with needle 21G	100	V
17	Syringe (Disposable) - 20ml with Needle 21G	50	E
18	Syringe (Disposable) - 3ml with Needle 21G	100	E
19	Syringe (Disposable) - 50ml with Needle 21G	25	E
20	Syringe (Disposable) - 5ml with needle 21G	100	V
21	Syringe Insulin (Disposable) - 1ml on 4mm with Fixed Needle 32G	100	E
22	Syringe Insulin (Disposable) - 1ml on 6mm with Fixed Needle 30G	100	V
3.3. Protective Supplies			
23	Apron Plastic Protection Against Most Chemicals - 80x120cm	Each	E
24	Glove Examination Latex Non-Powdered – Medium	100	V
25	Glove Surgical Latex Powder -Free Sterile -No.7.5	50 pairs	V
26	Oxygen Face Mask for Adult	Each	V
27	Oxygen Face Mask for Pediatrics	Each	V
3.4. Surgical Sutures			

28	Cat Gut Chromic - Gauge 2.0(4/0) 75cm on 15mm 1/2 Circle Cutting Needle	Dozen	E
29	Cat Gut Chromic - Gauge 2.0(4/0) 75cm on 15mm 1/2 Circle Round Bodied Needle	Dozen	V
30	Cat Gut Chromic - Gauge 3.0(3/0) 75cm on 25 mm 1/2 Circle Reverse Cutting Needle	Dozen	E
31	Cat Gut Chromic - Gauge 3.0(3/0) 75cm on 25 mm 1/2 Circle Round Bodied Needle	Dozen	V
32	Cat Gut Chromic -Gauge 3.5(2/0) 75cm on 38mm mm 1/2 Circle Round Bodied Needle	Dozen	V
33	Cat Gut Chromic - Gauge 4.0(0) 75cm on 30 mm 1/2 Circle Round Bodied Needle	Dozen	E
34	Cat Gut Chromic -Gauge 5.0(1) 75cm on 48 mm 1/2 Circle Round Bodied Needle	Dozen	V
35	Cat Gut Chromic -Gauge 6.0(2) 75cm on 35 mm 1/2 Circle Round Bodied Needle	Dozen	E
36	Mersilk Braided Black -Gauge 2.0 (3/0) 75cm on 26 mm 1/2 Circle Cutting Needle	Dozen	V
37	Mersilk Braided Black -Gauge 2.0(3/0) 75cm on 26 mm 1/2 Circle Round Bodied Needle	Dozen	E
38	Mersilk Braided Black -Gauge 3.5(0) 75cm on 32 mm 1/2 Circle Cuting Tapper Needle	Dozen	E
39	Mersilk Braided Black -Gauge 3.5(0) 75cm on 32 mm 1/2 Circle Round Bodied Needle	Dozen	V
40	Mersilk Braided Black -Gauge 4.0(1) 75cm on 30 mm 1/2 Circle Reverse Cutting Needle	Dozen	E
41	Mersilk Braided Black -Gauge 4.0(1) 75cm on 30 mm 1/2 Circle Round Bodied Needle	Dozen	E
42	Mersilk Braided Black -Gauge 3.0(2/0) 75cm on 33 mm 1/2 Circle Cutting Needle	Dozen	E
43	Mersilk Braided Black Gauge 3.0(2/0) 75cm on 33 mm 1/2 Circle Round Bodied Needle	Dozen	V
44	Mersilk Braided Black -Gauge 5.0(2) 75cm on 38 mm 1/2 Circle Cutting Needle	Dozen	V
45	Mersilk Braided Black -Gauge 2.0(4/0) 75cm on 26 mm 1/2 Circle Round Bodied Needle	Dozen	E
46	Polyamide Monofilament - Gauge 0.2(10/0) 38cm on 6mm 3/8 Circle Spatula Single Armed Needle	Dozen	E
47	Polyamide Monofilament - Gauge 0.3(9/0) 30cm on 6.5mm 3/8 Circle Spatula Single Armed Needle	Dozen	E

48	Polyglycolic Acid Absorbable Braided Violet - Gauge 0.4(8/0) 45cm on 8mm 1/2 Circle Round Bodied Needle	Dozen	E
49	Polyglycolic Acid Absorbable Braided Violet - Gauge 2.0(3/0) 75cm on 26mm 1/2 Circle Cutting Needle	Dozen	E
50	Polyglycolic Acid Absorbable Braided Violet - Gauge 2.0(3/0) 75cm on 26mm 1/2 Circle Round Bodied Needle	Dozen	V
51	Polyglycolic Acid Absorbable Braided Violet -Gauge 0.7(6/0) 30 cm on 12 mm ½ Circle Round Bodied Needle	Dozen	V
52	Polyglycolic Acid Absorbable Braided Violet -Gauge 1.0(5/0) 45 cm on 13 mm ½ Circle Round Bodied Needle	Dozen	E
53	Polyglycolic Acid Absorbable Braided Violet -Gauge 3.0(2/0) 75 cm on 27 mm ½ Circle Round Bodied Needle	Dozen	V
54	Polyglycolic Acid Absorbable Braided Violet -Gauge 3.0(2/0) 75 cm on 27 mm 1/2 Circle Cutting Needle	Dozen	V
55	Polyglycolic Acid Absorbable Braided Violet -Gauge 3.5(0) 75 cm on 48 mm 1/2 Circle Round Bodied Needle	Dozen	E
56	Polyglycolic Acid Absorbable Braided Violet -Gauge 4.0(1) 75 cm on 45 mm ½ Circle Cutting Taper Heavy Needle	Dozen	E
57	Polyglycolic Acid Absorbable Braided Violet -Gauge 4.0(1) 75 cm on 45 mm ½ Circle Round Bodied Needle	Dozen	V
58	Polyglycolic Acid Absorbable Braided Violet -Gauge 5.0(2) 75cm on 40mm ½ Circle Round Bodied Needle	Dozen	E
59	Polyglycolic Acid Absorbable Braided Violet - Gauge 2.0(4/0) 75cm on 26mm 1/2 Circle Round Bodied Needle	Dozen	V
3.5. Tubes and Drains			
60	Oxygen Nasal cannula (Prongs) – Adult	Each	V
61	Oxygen Nasal Cannula (Prong) -Neonatal	Each	V
62	Oxygen Nasal Cannula (Prongs) - Pediatric	Each	V
63	Catheter Condom Latex Medium - 28mm	Each	E
64	Catheter Foley Siliconized Latex Three Ways - 30-50ml Balloon 18CH	Each	V
65	Catheter Foley Siliconized Latex Three Ways- 30-50ml Balloon 20CH	Each	E
66	Catheter Foley Siliconized Latex Three Ways - 30-50ml Balloon 22CH	Each	E
67	Catheter Foley Siliconized Latex Three Ways - 30-50ml Balloon 24CH	Each	V
68	Catheter Foley Siliconized Latex Two Ways- 5-15ml Balloon 12CH	Each	V

69	Catheter Foley Siliconized Latex Three Ways -5-15ml Balloon 14CH	Each	E
70	Catheter Foley Siliconized Latex Two Ways- 5-15ml Balloon 8CH	Each	E
71	Catheter Foley Siliconized Latex Two Ways- 30-50ml Balloon 16CH	Each	V
72	Catheter Suction - 14CH	100	V
73	Catheter Suction - 16CH	100	E
74	Catheter Suction - 8CH	100	E
75	Colostomy Bag Adhesive Regulator Closed - 25cmx14cm 30mm Opening Pediatric	Each	V
76	Colostomy Bag Adhesive Regulator Closed - 25cmx14cm 30mm Opening Adult Opec Medium	Each	V
77	Drainage Chest Tube -10FG	Each	E
78	Drainage Chest Tube -18FG	Each	E
79	Drainage Chest Tube -28FG	Each	V
80	Drainage Chest Tube -32FG	Each	V
81	Endotracheal Tube Cuffed- 3CH	Each	E
82	Endotracheal Tube Cuffed- 3.5CH	Each	E
83	Endotracheal Tube Cuffed- 4CH	Each	V
84	Endotracheal Tube Cuffed- 4.5CH	Each	E
85	Endotracheal Tube Cuffed- 5CH	Each	E
86	Endotracheal Tube Cuffed- 5.5CH	Each	E
87	Endotracheal Tube Cuffed- 6CH	Each	V
88	Endotracheal Tube Cuffed- 6.5CH	Each	E
89	Endotracheal Tube Cuffed- 7CH	Each	V
90	Endotracheal Tubes without Cuffs with ID -2.5CH	Each	E
91	Naso Gastric Tube Sterile Adult - 16CH	Each	V
92	Naso Gastric Tube Sterile Adult - 18CH	Each	V
93	Naso Gastric Tube Sterile Infant - 12CH	Each	E
94	Naso Gastric Tube Sterile Infant - 4CH	Each	V
95	Naso Gastric Tube Sterile Infant - 6CH	Each	E
96	Naso Gastric Tube Sterile Infant - 8CH	Each	V
97	Oropharyngeal Airway (Guedel) Sterile - 120mm	Each	E
98	Oropharyngeal Airway (Guedel) Sterile - 60mm	Each	E
99	Oropharyngeal Airway (Guedel) Sterile - 90mm	Each	V
100	Rectal Tube Rubber with Terminal Size - 18CH	Each	E
101	Rectal Tube Rubber with Terminal Size - 28CH	Each	E
102	Rectal Tube Rubber with Terminal Size - 30CH	Each	E

103	Tracheostomy Tube 2.0 mm with 90 curvature armored with low Pressure Cuff Universal inflation funnel and pilot balloon	Each	E
104	Tracheostomy Tube 3.0 mm with 90 curvature armored with low Pressure Cuff Universal inflation funnel and pilot balloon	Each	V
105	Tracheostomy Tube 4.5 mm with 90 curvature armored with low Pressure Cuff Universal inflation funnel and pilot balloon	Each	V
106	Tracheostomy Tube 6.0 mm with 90 curvature armored with low Pressure Cuff Universal inflation funnel and pilot balloon	Each	E
107	Tracheostomy Tube 6.5 mm with 90 curvature armored with low Pressure Cuff Universal inflation funnel and pilot balloon	Each	E
108	Tracheostomy Tube 7.0 mm with 90 curvature armored with low Pressure Cuff Universal inflation funnel and pilot balloon	Each	E
109	Tracheostomy Tube 7.5 mm with 90 curvature armored with low Pressure Cuff Universal inflation funnel and pilot balloon	Each	V
110	Urine Collecting Bag PVC Latex Product - 1000ml	Each	V
3.6. Miscellaneous			
111	Adhesive Plaster Zinc Oxide - 7.5cmx10m	Each	V
112	Applicator Stick Wooden with Cotton Tip - 15cmx2.2mm	100	E
113	Autoclave Indicator Tape - 1.9cmx50m	Each	E
114	Collar-Cervical, Hard Medium	Each	E
115	Hernia mesh 15cm x 15cm	Each	V
116	Hernia mesh 11cm x 6cm	Each	V
117	Pump Breast Manual Plastic -30ml	Each	E
118	Surgical Scalpel Blade - No.10	100	E
119	Surgical Scalpel Blade - No.11	100	E
120	Surgical Scalpel Blade - No.15	100	V
121	Surgical Scalpel Blade - No.22	100	E
122	Surgical Scalpel Blade - No.24	100	V
123	Tongue Depressor (Spatula) Wooden	50	E
124	Umbilical Clamp Sterile - 5.3cm	Each	E
4. ROUTINE MEDICAL DEVICE			
1	Bed - Patient, Fowler, Adult	Each	V
2	Defibrillator With Monitor	Each	V
3	Electro Surgical Unit	Each	E
4	ECG Machine - 12 Channel	Each	E
5	Ultrasound - Ob/Gyn	Each	V
6	Wheelchair – Adult	Each	E
7	Sphygmomanometer - Aneroid,		
	a. Sphygmomanometer - Aneroid, Adult	Each	V

	b. Sphygmomanometer - Aneroid, pediatric	Each	V
8	Sphygmomanometer - Digital		
	a. Sphygmomanometer - Digital, Adult	Each	V
	b. Sphygmomanometer - Digital pediatric	Each	V
9	Stethoscope		
	a. Stethoscope – Adult	Each	V
	b. Stethoscope - Pediatric	Each	V
10	Sterilizer		
	a. Sterilizer - Steam, 40 L	Each	E
	b. Sterilizer - Steam, 80 L	Each	V
	c. Sterilizer - Hot Air, 30L/50L	Each	E
11	Suction Machine - Surgical, Electrical	Each	E
12	Couch		
	Couch - Examination, Gynecological	Each	E
	Couch - Delivery	Each	V
13	Ultrasound - Doppler, Fetal	Each	V
14	Vacuum Extractor - Electrical	Each	E
15	Centrifuge		
	a. Centrifuge - General Purpose, Electrical	Each	V
	b. Centrifuge - Hematocrit, Electrical	Each	E
16	Forceps - Pick Up, With Jar	Each	E
17	Glucometer	Each	V
18	Hemoglobinometer	Each	V
19	Microscope - Binocular, LED	Each	V
20	Shaker - Rotary, Clinical Testing	Each	E
21	Mixer – Vortex	Each	E
22	Pump – Infusion	Each	E
23	Phototherapy Unit	Each	E
24	Monitor – Patient	Each	V
25	Oxygen Concentrator	Each	V
26	Cylinder – Oxygen		
	a. Cylinder - Oxygen, 50 L, With regulator (Humidifier and Flow Meter)	Each	V
	b. Cylinder - Oxygen, 20 L with regulator (With Humidifier and Flowmeter)	Each	E
27	Resuscitator – Manual		
	a. Resuscitator - Manual, Adult	Each	V
	b. Resuscitator - Manual, pediatric	Each	V
	c. Resuscitator - Manual, Infant	Each	V

28	Thermometer - Clinical, Digital	Each	V
29	Light - Examination, Mobile	Each	V
30	Pulse Oximeter - Hand Held	Each	V
31	Scale – Weight		
	a. Scale - Weight, Digital, Adult, With Height	Each	E
	b. Scale - Weight, Digital, Baby, With Height	Each	E
32	Drum – Sterilizer		
	a. Drum - Sterilizer, 240mmx240mm	Each	E
	b. Drum - Sterilizer, 240mmx290 mm	Each	V
	c. Drum - Sterilizer, 240mmx340mm	Each	E
33	Knife - Humby, with Blade	Each	E
34	Light - Operating, Mobile	Each	V
35	Set - Diagnostic, EENT	Set	E
36	Set – Laryngoscope	Set	E
37	Set - Instrument, Examination, Gynecology	Set	V
38	Set - Biopsy		
	a.Set - Biopsy, Incision	Set	E
	b.Set - Biopsy, Punch	Set	E
39	Set - Cholecystectomy	Set	E
40	Set - Cusco Vaginal Speculum	Set	E
41	Set - Episiotomy/Perineal/Vaginal Cervical	Set	V
42	Set - Foreign Body Removal	Set	E
43	Set - Hysterectomy	Set	E
44	Set - Instrument, Caesarean Section	Set	V
45	Set - Instrument, Surgery, Minor	Set	E
46	Set - Instrument, Surgery, Major	Set	V
47	Set - Laparotomy, Adult	Set	E
48	Set - Laparotomy, Infant	Set	E

Annexes

Annex – I List of participants in the 1st Workshop

S/N	Full Name	Sex	Profession	Institution
1	Dr Mohammed Ibrahim Adem	M	MD	SPHMMC
2	Sofi Seid	F	Psychiatry (MSC)	MoH
3	Dr Ali Dawed	M	Cardiologist	ESCP
4	Dr Kefelgen Dejene	M	Cardiologist	ESCP
5	Bisrat Fantaye	M	MPH	MoH
6	Dr Yemiserach Haile	F	MD, MPH	Menkilk II hospital
7	Dr Adughna Fikadu	M	MD	TASH
8	Dr Sonia Worku	F	MD	TASH
9	Abyneh Landu	M	Pharmacists	EPSS
10	Belaineh Girma	M	Pharmacists	EPSS
11	Dr Hilina Dangnachew	F	Nurologest	EN
12	Dr Hana Demissie	F	Nurologest	AAU/EN
13	Dr Ameha Gebremedhin	M	MD	AAU
14	Dr Getahun Tarekegn	M	MD	EDA
15	Dr Hikma Fikadu	F	MD	TASH
16	Dr Blen W/Giorgis	F	MD	SPSH
17	Zegeye Yohannes	M	MSC/Psychatry	EMHA
18	Atalay Mulu	M	Pharmacist	AAU
19	Dr Edom Seife	F	MD	AAU
20	Haileyesus Wossen	M	Pharmacist	WHO
21	Teferi Guji	M	Pharmacist	CHAI
22	Dr. Yared Tilahun	M	MD, MPH	CHAI
23	Dr. Beza Yoseph	F	MD	CHAI

Annex – II List of participants of the 2nd Workshop

S/N	Participants Name	Position	Institution
1	Abayineh Landu	T/leader	EPSS - HO
2	Abduljelil Chali	Officer	EPSS - Jimma
3	Addisalem Wossenu	T/leader	EPSS - N/borena
4	Ammanuel Beyene	Lab. Officer	EPSS
5	Ammanuel Molla	Officer	EPSS - HO
6	Asahil Yigzaw	T/leader	EPSS - Mekelle
7	Ayeru Fekadu	T/leader	EPSS - HO
8	Belayineh Girma	T/leader	EPSS - HO
9	Belete Zenebe	Officer	EPSS - HO
10	Biniyam Hailu	Lab. Officer	EPSS-HO
11	Biruk Wondimu	Officer	EPSS - HO
12	Bisrat Fantaye	NCD/Focal	MOH
13	Biyansa Negera	Officer	EPSS - HO
14	Damtew Negash	T/leader	EPSS - HO
15	Daniel Sintayehu	T/leader	EPSS - K/Dar
16	Debalke Fantaw	T/leader	EFDA
17	Dr. Beza Yoseph	Technical Advisor	CHAI
18	Ebrahim Kassaw	Officer	EPSS - Semera
19	Efa Deresa	T/leader	EPSS - HO
20	Endalkachew Taye	Officer	EPSS - D/Dawa
21	Fekede Shiferaw	T/leader	EPSS - HO
22	Gebrie Admasu	Officer	EPSS - HO
23	Gifti Berhanu	Officer	EPSS - Assossa
24	Girma Dessie	Program Manager	RTSL
25	Haftu Berhe	QMSD Director	EPSS -HO
26	Haile Yirga	T/leader	EPSS - Dessie
27	Haileyesus Wossen	National Professional Officer	WHO
28	Haimanot Assefa	T/leader	EPSS- B/Dar
29	Hassen Mohammed	T/leader	EPSS -Hawassa
30	Hermela Sisay	Officer	EHIS
31	Israel Zeme	T/leader	EPSS - A/minch
32	Kassahun Endalew	T/leader	EPSS -HO
33	Kefale Merera	Officer	EPSS - HO
34	Korene Beshir	T/leader	EPSS - Jigjiga
35	Ksate Nikedimos	T/leader	EPSS - Shire
36	Lidiya Abera	Officer	EPSS-HO

37	Mahader Abreham	Officer	MOH
38	Mehari T/haimanot	T/leader	EPSS - Gonder
39	Melese Jorge	T/leader	EPSS -HO
40	Mesfin Berhe	T/leader	EPSS - HO
41	Mohammed Aman Jemal	T/leader	MOH
42	Rahel Abay	Officer	EPSS-HO
43	Rawda Kedir	T/leader	EPSS - AA1
44	Solomon Abdellah	T/leader	MOH
45	Solomon Emiru	T/leader	EPSS - AA2
46	Solomon Nugussie	EPSS Deputy Director	EPSS - HO
47	Tadesse Yadete	Officer	EPSS - HO
48	Teferi Guji	Project Coordinator	CHAI
49	Teferi Olana	Officer	EPSS - HO
50	Tesfahun Abre	T/leader	EPSS - HO
51	Tewdrose Asmare	T/leader	EPSS - Adama
52	Yohannes Kebede	T/leader	EPSS - Gambella
53	Zerihun Fekade	Lab. Officer	EPSS-HO