

**NATIONAL
ESSENTIAL DRUGS LIST
OF PAKISTAN**

**Ministry of Health
Government of Pakistan
Islamabad
2003**

**NATIONAL
ESSENTIAL DRUGS
LIST**

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PREFACE

After the second World War the development and emergence of miracle drugs like antibiotics brought a revolution in the medical care. The obvious effectiveness of these new pharmaceuticals and intensive marketing efforts combined to catalyze wide spread use of modern medicine. A rapidly growing and profitable industry, together with an enthusiastic but largely uninformed audience and an unregulated market, resulted in excess of promotion and consumption alongwith inflated level of expenditure. However, by 1970s it had become clear that least advantageous nations were not even meeting the basic needs of their people for essential life saving and health promoting drugs. As a result gradually a number of countries started concentrating on the development of a basic list of reliable drugs to meet the most vital basic needs of their people.

A World Health Organization (WHO) Committee of Experts met in 1977 to determine the number of drugs, which were actually needed to ensure a reasonable level of health care for as many people as possible. Consequently, the first Model List of Essential Drugs was finalized in the same year. This list is being updated regularly by the WHO and is intended to be used as a guideline and provide basis for member countries to identify their own priorities and make their own selection. Through 1970s and 1980s the WHO started promotion of the concept of Essential Drugs Program in order to redress this imbalance. The program aimed at reduction in the number of drugs purchased/used by the hospitals/institutions to a minimum possible level in order to make best use of limited public funds.

Essential drugs as defined by WHO are those that satisfy the health care needs of majority of the population. They should therefore be available at all times in adequate amounts and in the appropriate dosage forms.

The National Essential Drugs List (NEDL) of Pakistan was first prepared in 1994 in consultation with relevant experts. The list was previously reviewed in 1995 and 2000. The present list is the third revision containing 452 drugs of different pharmacological classes.

The health sector in general and public health sector in particular is expected to seriously consider adopting this list. The provincial health departments can play a pivotal role to encourage the hospitals/institutions for making bulk purchases from within this list. We hope that this list will find more acceptance among health care professionals.

Maj. Gen. ® Mohammad Aslam HI (M)
Director General Health

EXPLANATORY NOTES

Letters in parentheses following drug names indicate: (P) for Primary, (S) for Secondary and (T) for Tertiary.

I. Classification of drugs for use at various levels of Health

Services is as follows:

- (P) **PRIMARY:** For use at the Primary Health Care Level including Basic Health Units and Rural Health Centers.
- (S) **SECONDARY:** For use at the Secondary Health Center Level i.e; hospitals.
- (T) **TERTIARY:** For use at the specialized and sub-specialized levels for specific expertise diagnostic precision or special equipment required for proper use.

II. Drugs subject to international controls under :

- (1) Single Convention on Narcotic drugs 1961:
- (2) Convention on Psychotropic Substances 1971; and
- (3) Convention on Illicit Traffic in Narcotic Drugs and Psychotropic Substances 1988.

III. Special considerations ;

- (4) In renal insufficiency, contraindicated or dosage adjustments necessary;
- (5) To improve compliance;
- (6) Special pharmacokinetic properties;
- (7) Adverse effects diminish benefit/risk ratio;
- (8) Limited indications or narrow spectrum of activity;
- (9) For epidural anaesthesia;

- (10) Specific expertise, diagnostic precision, individualization of dosage or special equipment required for proper use;
 - (11) Monitoring of therapeutic concentrations in plasma can improve safety and efficacy;
 - (12) **COMPLEMENTARY DRUGS:** Choice to be made on the basis of cost effectiveness.
- IV. When the strength of a drug is specified in terms of a selected salt or ester, this is mentioned in brackets; when it refers to the active moiety, the name of the salt or ester in brackets is preceded by the word 'as'.

ANAESTHETICS

1.1 General Anaesthetics and Oxygen

diazepam (P), (S), (T), (2)	10mg/2ml inj.
ether, anaesthetic (P), (S), (T), (3,10)	liquid for inhalation
halothane (T) (10)	liquid for inhalation
ketamine (S), (T), (10)	50 mg/ml inj.(as hydrochloride)
nitrous oxide (T), (10)	Gas for inhalation
(*propofol	10 mg/ml inj)
thiopental (T), (10)	500 mg powder for inj. (as sodium salt)

(*only in exceptional cases on the basis of cost effectiveness).

1.2 Local Anaesthetics

bupivacaine (T),(9), (10)	0.25% & .5% (as hydrochloride) inj.
ephedrine hydrochloride (S), (T), (3)	50 mg/ml Inj.
lignocaine (S), (T)	1% & 2% inj. (as hydrochloride)
	5% (as hydrochloride) inj. for spinal anaesthesia
	2% & 4% (hydrochloride) topical solution
lignocaine + epinephrine (S), (T)	2% (hydrochloride) gel.
	1% (hydrochloride) + epinephrine
	1:100 000 inj.
	2% (hydrochloride) + epinephrine
	1:200 000 inj.
	2% (hydrochloride) + epinephrine
	1:80 000 dental cartridge

1.3 Neuromuscular Blocking Agents.

atracurium (T)	25&50 mg inj. (as besylate)
pancuronium (T)	4 mg inj. (as bromide)
suxamethonium (T), (10)	100 mg inj. (as chloride)

1.4 Miscellaneous

atropine (P), (S), (T)	1mg inj. (as sulfate)
oxygen (P), (S), (T)	gas for inhalation.

2: ANALGESICS, ANTI TIPYRETICS, NON-STEROIDAL ANTI-INFLAMMATORY DRUGS AND DRUGS USED TO TREAT GOUT.

2.1 Opioid Analgesics

morphine (P), (S), (T), (1)	10mg & 30mg slow release tab. 10mg/ml inj. (as sulfate or hydrochloride).
pethidine (P), (S), (T), (1,4)	50 mg/ml inj. (as hydrochloride)

2.2 Non-Opioid Analgesics and NSAIDS

acetylsalicylic acid (P), (S), (T)	300 mg tab.
diclofenac (T)	75 mg / 3 ml inj. (as sodium)
ibuprofen (P),(S),(T)	200,400 and 600 mg tab.
indomethacin (P),(S),(T)	25 mg cap or tab.
paracetamol (P),(S), (T)	500 mg tab.

2.3 Local Analgesics

choline salicylate (P), (S), (T)	8.7% gel for local use.
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2.4 Drugs used to treat Gout

allopurinol (S), (T), (7)	100 & 300 mg tablet
colchicine (S), (T), (4)	0.5 mg tab

3: ANTIALLERGICS AND DRUGS USED IN

ANAPHYLAXIS

adrenaline (P), (S), (T)	1mg inj. (as hydrochloride)
chlorpheniramine (P), (S), (T)	4mg tablet (as maleate), 2mg/5ml syrup (as maleate)
dexamethasone (P), (S), (T)	0.5mg tab 4&20mg inj.(as sodium phosphate)
hydrocortisone (P),(S),(T)	100 mg inj.(as sodium succinate)
prednisolone (P), (S), (T)	5 mg tablet
promethazine (P), (S), (T)	10 & 25mg tab. (as hydrochloride) 5mg/5ml elixir or syrup (as hydrochloride) 25mg inj. (as hydrochloride)

4: ANTI-EPILEPTICS

carbamazepine (P), (S), (T) (11)	200 mg tab. Syp.
diazepam (P), (S), (T) (2)	10 mg/2ml injection.
ethosuximide (T)	250 mg capsule/tab. 250 mg/5ml syrup.
phenobarbitone (P), (S), (T), (2,11)	30 mg tab. 200 mg/ml inj.
phenytoin (P), (S), (T), (7,11)	100mg tab./capsule (as sodium)
phenytoin sodium (S), (T), (7,11)	30mg/5ml syrup (as sodium)
valproate sodium (T),(7,11)	200 mg tab. 200 mg/5ml syrup.

valproic acid (T), (7,11) 125 mg, 250 mg & 500 mg tab
250 mg/5ml syrup).

5: ANTI-INFECTIVE DRUGS.

5.1 Anthelmintics

albendazole (P), (S), (T) 200 mg tab. 100 mg/5ml susp.
levamisole (T), (8) 40 mg tablet (as hydrochloride)
40 mg/5ml syrup.
mebendazole (P), (S), (T) 100 mg tab. 100 mg/5ml susp.
niclosamide(P), (S), (T) 500 mg tab.
pyrantel (P), (S), (T) 250 mg tab. (as pamoate)
250 mg/5ml susp.(as pamoate).

5.2 Antibacterials

amoxicillin (P), (S), (T), (4) 250 & 500 mg capsule/tablet (as
trihydrate).
125 & 250 mg/5ml syrup (as
trihydrate)
ampicillin (P), (S), (T), (4) 250 & 500mg tab/cap (as
anhydrous/trihydrate)
125 mg/5ml syrup (as
anhydrous/trihydrate)
500mg inj.(as sodium salt).
amikacin (T) 250 & 500 mg inj. (as sulphate)
benzylpenicillin (P), (S), (T) 100.44 gm inj. (benzathine)
600 mg (1 million IU) inj.
(sodium/potassium)
cefazolin (T) 250,500mg & 1gm inj.(as sodium
salt)
cefatazidime (T) 500 mg & 1 gm inj.

ceftriaxone (T)	250,500&1gm inj(as sodium salt)
ceftizoxime (T)	250, 500mg & 1gm inj.(as sodium salt).
cefixin (T)	100 mg cap.
cefuroxime (T)	125,250 mg tab. (as axetil) 250 and 750 mg inj. (as sodium)
cephalexin (T)	250 & 500 mg cap. 125 mg/5ml & 250mg/5ml syrup.
cephradine (T)	250 & 500 mg cap. 125 mg/5ml & 250 mg / 5ml syrup 250, 500 mg & 1 gm inj.
chloramphenicol (P), (S), (T), (7)	250 mg capsule 125mg/5ml syrup (as palmitate) 1 gm inj. (as sodium succinate)
ciprofloxacin (P), (S),(T)	250 mg tab.(as hydrochloride)
clindamycin (T), (8)	300 & 600 mg inj. (as hydrochloride)
cloxacillin (T)	250 mg cap. (as sodium) 125 mg/5ml syrup (as sodium), 250 mg inj. (as sodium)
co-trimoxazole (P), (S), (T)	400mg+80mg & 800mg+160mg tab.
(sulphamethoxazole+ trimethoprim), (4)	200 mg+40 mg/5ml suspension 800mg+160mg/3 ml injection.
doxycycline (T), (5,6)	100 mg cap / tablets (as hyclate/hydrochloride)
erythromycin (P), (S), (T)	250 & 500mg tablet (as stearate) 200mg/5ml suspension (as ethyl succinate) 500mg inj. (as lactobionate).
gentamicin (P), (S.), (T.), (4,7,10,11)	40 & 80 mg inj. (as sulfate)

metronidazole (P), (S), (T), (8)	200, 400 mg tab. 200 mg/5ml suspension (as benzoate) 500 mg/100ml vial.
nalidixic acid (P), (S), (T)	500 mg tablet 300 mg / 5ml syrup. 5000,000 IU tab 100,000 IU/ml drops 100,000 IU pessaries
nitrofurantoin (P), (4,8)	100 mg
nystatin (S), (T)	200 mg tab. (as hydrochloride)
pefloxacin (T)	400 mg/5ml inj.
phenoxymethylpenicillin (P), (S), (T)	250 & 500mg tab. (as potassium salt) 125 mg/5ml syrup.
procaine benzylpenicillin (P), (S), (T)	1 & 3 million IU inj.
sulphasalazine (S), (T)	500 mg tab.
tinidazole (S), (T)	300 & 500 mg tab.
trimethoprim (S), (T), (8)	300 mg tab.

5.3 Anti-Tuberculosis Drugs

ethambutol (P), (S), (T), (4)	400mg tab.(hydrochloride)
isoniazid (P), (S), (T)	50, 100 & 300 mg tab. Syrup.
isoniazid + ethambutol (P),(S),(T),(5)	150 mg +400 mg
pyrazinamide (P), (S), (T)	500 mg tab.
rifampicin (P), (S), (T)	150, 300, 450 & 600 mg tab/cap syrup.
rifampicin + isoniazid (P),(S),(T)	150 mg + 100 mg tab./cap.

	300 mg + 150 mg tab./cap.
	450 mg + 300 mg tab./cap.
rifampicin + isoniazid + pyrazinamide (P),(S),(T), (5)	150 mg + 75 mg + 400 mg
rifampicin + isoniazid + pyrazinamide + ethambutol (P),(S),(T)	150 mg + 75 mg + 400 mg + 275 mg
streptomycin (P), (4)	1g inj. (as sulphate).
thioacetazone (P), (S), (T)	50mg tab.
thioacetazone + isoniazid (P), (S), (T), (7)	(50 mg + 100 mg) tab. (150 mg + 300 mg) tab
5.4 Anti-Fungal Drugs	
amphotericin B (T), (4)	50 & 100 mg tab.
griseofulvin (T), (7,8)	125 & 500 mg tab.
ketoconazole (T)	200 mg tab. 100 mg/5ml oral suspension
nystatin (P), (S), (T)	500 000 IU tablets 100 000 IU/ml oral drops 100 000 IU pessary
5.5 Anti-Amoebic Drugs	
chloroquine (P), (S), (T)	150mg tab (as sulphate or phosphate) 50 mg/5ml syrup, 200 mg inj.

diloxanide (P), (S), (T)

500 mg tablet (as furoate).

metronidazole (P), (S), (T)

200 & 400 mg tab.

200 mg (as benzoate)/5ml
suspension.

5.6 Antiviral Drugs	
acyclovir (T), (8)	200 mg tab 250mg inj. (as sodium)
5.7 Antimalarial Drugs and Prophylactics	
chloroquine (P), (S), (T)	150mg tab (as sulphate orphosphate) 50mg/5ml syrup&200 mg inj.
primaquine (P), (S), (T)	7.5 mg tab.
quinine (P), (S), (T)	200 mg tab. (as sulphate) 300 mg tab. (as bisulphate)
quinine dihydrochloride (S),(T)	600mg inj
sulphadoxine + pyrimethamine (P), (S), (T)	500 mg + 25 mg tab.
5.8 Antileishmanial Drugs	
sodium stibogluconate (S)	100 mg inj.
6: ANTIMIGRAINE DRUGS	
ergotamine (P), (S), (T), (7)	1mg tab. (as tartarate) 0.5mg inj.
7: ANTIPARKINSONISM DRUGS	
biperiden (P), (S), (T)	2 & 5 mg inj. (as lactate)
carbidopa+levodopa (T),(5,6)	25 mg + 250 mg tab.
procyclidine (S), (T)	5 mg. tab.
selegiline (T)	5 mg tab.

8: DRUGS AFFECTING BLOOD**8.1 Antianaemic Drugs**

ferrous salt (P), (S), (T)	eq.to 60 mg iron tab. eq.to 25mg iron/ml syrup (as sulfate).
folic acid (P), (S), (T), (10)	1 & 5mg tab.
iron dextran (P), (S), (T), (5)	eq. to 50mg iron/ml inj.

8.2 Drugs Affecting Coagulation

heparin (S), (T)	1000, 5000 & 20,000 IU inj. (as sodium)
phytomenadione (S), (T)	10 mg inj. 10mg tab.
tranexamic acid (S),(T)	250mg cap. 250 mg inj.
warfarin (S),(T), (6,10)	1 & 5 mg tab. (as sodium)

9: BLOOD PRODUCTS AND PLASMA SUBSTITUTES

albumin (human) (T)	5% & 25% solution for inj.
dextran 40 (P), (S),(T)	40% w/w for infusion.
factor VIII concentrate (T), (8,10)	inj.
factor IX complex	inj.
conc. USP (T)	
immune human serum (T)	inj.
platelets human (T)	inj.
polygeline (T)	35% inj.

10: CARDIOVASCULAR DRUGS

acetylsalicylic acid(P), (S), (T)	150 mg, 300 mg tab.
amiodarone (T)	200 mg tab.
amlodipine (S), (T)	5 mg tab.
atenolol (S), (T)	50 & 100 mg tab.

captopril (T)	25 & 50 mg tab.
digoxin (P), (S), (T), (4)	500 mcg inj. 250 mcg tab. 50 mcg/ml oral solution.
diltiazem (T)	30, 60, 90 & 180 mg tab. (as hydrochloride) 10 & 50 mg inj.
dobutamine (T)	250 mg inj.
dopamine (S), (T)	200 & 800 mg inj. (as hydrochloride)
(enalapril (S), (T)	5 & 10 mg tab), 100 mg inj).
esmolol (T)	100 mg inj.
gemfibrozil (T)	300 mg cap.
hydralazine (T)	25 mg tab. 20 mg inj.
isoprenaline (S), (T)	30 mg tab. 1mg inj.
isosorbide dinitrate (P), (S), (T)	5mg tab (sublingual). 10mg tab.
labetolol (T)	100 & 200 mg tab. (as hydrochloride) 5mg/ml inj. (as hydrochloride).
lignocaine (P), (S), (T)	1% & 2% inj. (as hydrochloride).
(lisinopril	5, 10 & 20 mg tab)
losartan (S), (T)	25 mg tab.
methyl dopa (P), (S), (T), (7)	250 & 500 mg tab. 250 mg inj.
nicotinic acid (S), (T)	50mg tab.
(nitroglycerin (P), (S), (T)	500 mcg tablet (sublingual) 2.6 & 6.4 mg tab. 5&10 mg patches) 1mg/ml I.V. infusion (T)
phenytoin (S), (T)	30 mg/5ml susp. 25 mg cap. (sodium)

	250 mg inj.
prazosin (P), (S), (T)	1 & 2 mg tab.
procainamide (T)	250 mg tab. 100 mg inj.
propranolol (P), (S), (T)	10, 40, 80 & 160 mg tab.
	1mg inj.
quinidine (T)	200 mg tab. (as sulphate)
sodium nitroprusside (T), (8,10)	50 mg inj.
verapamil (S), (T), (8,10)	40, 80 & 240 mg tab. 5mg inj. (T)

11: DERMATOLOGICAL DRUGS (TOPICAL)

benzoic acid + salicylic acid (P), (S), (T)	6% + 3% ointment or cream
benzoyl peroxide (T)	5% & 10% gel
benzyl benzoate (P), (S), (T)	25% lotion
betamethosone (S), (T)	0.1% oint/cream/lotion
betamethosone + neomycin (S), (T)	0.1+0.5% oint/cream/lotion
benzophenones (T)	cream/lotion/gel
calamine powder (P), (S), (T)	for 15% calamine lotion
clotrimazole (P), (S), (T)	1% cream/oint/solution
coal tar liquid (P), (S), (T)	for 7.5% lotion.
gammabenzene hexachloride (S), (T)	1% cream
gentian violet (P), (S), (T)	0.5% aq. solution
hydrocortisone (P), (S), (T)	1% cream/oint (as acetate)
hydrocolloid methoxsalen (S), (T)	dressings
	10 mg tab.
	0.75% oint./cream/lotion.
neomycin+bacitracin (P), (S), (T)	5mg neomycin sulfate +500 IU bacitracin zinc/g

neomycin (P), (S), (T)	0.5% oint/cream
nystatin (P), (S), (T)	100,000 iu/gm oint/cream
polymyxin + zinc bacitracin (P), (S), (T)	ointment.
permethrin (T)	1% & 5% cream
salicylic acid (P), (S), (T)	5% topical solution/ lotion/gel.
silver sulphadiazine (P), (S), (T)	1% cream
sodium thiosulfate (P), (S), (T)	15% solution
zinc oxide (P), (S), (T)	25% cream/ointment

12: DIURETICS

amiloride (S),(T), (4,7,8)	5 mg tab. (hydrochloride)
furosemide (P), (S), (T)	20 & 40 mg tab. 10mg inj.
hydrochlorothiazide (S), (T)	50 mg tab.
mannitol (T)	10% & 20% inj.
spironolactone (S), (T), (8)	25 & 100 mg tab.

13: GASTROINTESTINAL DRUGS

aluminium hydroxide (P), (S), (T)	500mg tablet
	320 mg/5ml oral suspension
aluminium hydroxide + magnesium hydroxide (P), (S), (T)	400 + 400 mg tab.
atropine sulphate (P), (S), (T)	200 + 200 mg/5ml susp.
bisacodyl (P), (S), (T)	1 mg tab. & 0.5mg inj.
cimetidine (P), (S), (T)	5mg tab
cimetidine (P), (S), (T)	200 & 400mg tab. 200mg inj
cyclizine (P), (S), (T)	50mg tab. 12.5 mg/5ml syrup. 50mg inj.
hyoscine butylbromide (P), (S), (T)	10 mg tab & 20 mg inj.

ispaghulla husk (P), (S), (T)	for solution
lactulose (T)	50% syrup
magnesium hydroxide (P), (S), (T)	550 mg/10ml susp. 400 mg tab.
metoclopramide (P), (S), (T)	10 mg tab. 10mg inj. 5mg / 5 ml syrup
omeprazole (P), (S), (T)	20 mg cap.
oral rehydration salt (P), (S), (T)	components to reconstitute 1 litre glucose/electrolyte solution: sodium chloride 3.5g, trisodium citrate dihydrate 2.9g, potassium chloride 1.5g, glucose 20g.
potassium chloride (P), (S), (T)	7.4% inj
prochlorperazine (S), (T)	5 mg tab. 12.5 mg inj.
promethazine (P), (S), (T)	10 & 25mg tablet. 1 mg/ml elixir. 25 mg/ml inj.
sulphasalazine (S), (T)	500 mg tab.

**14: HORMONES, OTHER ENDOCRINE DRUGS AND
CONTRACEPTIVES**

bromocriptine (T)	2.5 mg tab.
carbimazole	5mg tab.
clomifene (T,8)	50 mg tablet
condoms with or without spermicide (nonoxinol) (P), (S), (T)	
conjugated estrogen (S), (T)	0.625 mg / gm cream
dexamethasone (P), (S), (T)	0.5mg tab. 4 & 20 mg inj.
diaphragms with spermicide (nonoxinol) (P), (S), (T)	
ethynylestradiol + levonorgestrol	0.03 mg + 0.15 mg tab.

(S), (T)	
ethynylestradiol + norethisterone (P), (S)	(0.05 mg + 0.5 mg), (35 mcg + 1mg) tab.
glibenclamide (P), (S), (T)	5 mg tab.
human chorionic gonadotrophic hormone (T)	1000 & 5000 iu inj.
hydrocortisone (S), (T)	100 & 250 mg inj.
17-hydroxyprogesterone caproate (S), (T)	250 & 500 mg inj.
insulin comp.	S100 IU/inj.
zinc or isophane (P), (S), (T)	
insulin Regular (P), (S), (T)	100 IU.
intrauterine device copper T (P), (S), (T)	
levonorgesterol (P), (S)	0.75 mg tab.
metformin (P), (S), (T)	500 mg tab. (as hydrochloride)
norethisterone (S), (T)	5 mg tab. 200 mg inj. (as enanthate)
oxytocin (S), (T)	10 units /ml; 1ml ampoule
potassium iodide (P), (S), (T)	60 mg tablet
prednisolone (S), (T)	5mg tablet
propylthiouracil (T)	50 & 100 mg tab.
thyroxine (T)	50mcg tab. (as sodium anhydrous)
vasopressin/ADH (T)	20 IU/ inj.

15: IMMUNOLOGICALS

15.1 Diagnostics

tuberculin PPD (T)	inj.
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15.2 Sera and Immunologicals

anti-D immunoglobulin (T)	inj.
antiscorpion sera (P), (S), (T)	inj.
antivenom sera (P), (S), (T)	inj.
diphtheria antitoxin inj. (P), (S), (T)	inj.
hepatitis B immunoglobulin (T)	inj.
tetanus antitoxin (P), (S), (T)	inj.
tetanus toxoid (P), (S), (T)	inj.

15.3 Vaccine for Universal Immunization

BCG (dried) vaccine (P), (S), (T)	inj.
diphtheria-pertussis tetanus vaccine (P), (S), (T)	inj.
diphtheria-tetanus vaccine (P), (S), (T)	inj.
measles-mumps-rubella vaccine (P), (S), (T)	inj.
measles vaccine (P), (S), (T)	inj.
poliomyelitis vaccine (live attenuated) P), (S), (T)	oral solution
tetanus vaccine (P), (S), (T)	inj.

15.4 Vaccines for Specific Use.

hepatitis B vaccine (T)	inj.
meningococcal vaccine (T)	inj.
rabies vaccine (P), (S), (T)	inj.
rubella vaccine (T)	inj.
yellow fever vaccine (T)	inj.

15.5 Immunosuppressants.

cyclosporin (T), (10)	50 mg/ml inj. 25 & 100 mg cap
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16: MUSCLE RELAXANTS (PERIPHERALLY ACTING) AND CHOLINESTERASE INHIBITORS

pyridostigmine (S), (T), (8,10)	60 mg tab.
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17: OPHTHALMOLOGICAL PREPARATIONS**17.1 Anti-Infective Agents**

acyclovir (T)	3% eye oint.
chloramphenicol (P), (S), (T)	1% eye oint. 0.5% drops
gentamicin (S), (T)	0.3% eye drops/eye oint.
ketoconazole (T)	2 mg/ml eye drops
polymixin B sulphate + bacitracin	10,000 IU + 500 IU/gm oint.
zinc (S),(T)	
sulfacetamide (P), (S), (T)	10%, 20% & 30% eye drops, 10% eye oint.
tetracycline (P), (S), (T)	ointment.

17.2 Miotics and Antiglaucoma Drugs.

dipivefrin (T)	0.1% eye drops
(levobunolol	0.5% eye drops)
pilocarpine (S)	1%, 2% & 4% eye drops.

17.3 Mydriatics and Cycloplegics Drugs

atropine (S), (T)	1% & 2% eye drops
homatropine (S), (T)	2% eye drops
phenylephrine (T)	0.12% eye drops
tropicamide (S), (T)	1% eye drops

17.4 Corticosteroids

prednisolone (T) 0.2% eye drops

17.5 Non-steroidal Antiallergic/Decongestants

antazoline (S), (T) eye drops
(naphazoline (S), (T) eye drops)
pheniramine maleate (S), (T) eye drops
zinc sulphate + boric acid (P), (S), (T) 0.46% + 1.6% eye drops

17.6 Topical Anaesthetics

oxybuprocaine (S), (T) 0.4% eye drops
proparacaine (S), (T) eye drops

17.7 Others

artificial tears (T) eye drops
flourescine sodium (S), (T) eye drops

18: OXYTOCICS AND ANTIOXYTOCICS

ergometrine (P), (S), (T), (7) 0.25mg tab. (hydrogen maleate) 200
mg inj.

19: PERITONEAL DIALYSIS SOLUTION

intraperitoneal dialysis parental
solution
(of appropriate composition) (T)

20: PSYCHOTHERAPEUTIC DRUGS

amitriptyline (S), (T)	10, 25 & 50 mg tab.
chloral hydrate(S), (T)	1 g / 5ml syrup
chlorpromazine(S), (T)	10, 25, 50 &100 mg tab. 25 mg/5ml syrup. 50 mg inj.
clomipramine (T)	10 & 25 mg cap.(as hydrochloride)
diazepam (P,2), (S), (T)	2, 5 & 10 mg tab. 10mg inj
fluoxetine (S), (T)	20 mg cap.
fluphenazine (S), (T)	25 mg inj (as decanoate)
haloperidol (P), (S), (T)	0.25, 1.25 & 5 mg tab 5mg inj. 2mg/ml oral drops
imipramine (S)	25 mg tab.
lithium carbonate (T)	400 mg tab.
resperidone (S), (T)	1 mg, 2 mg, 3 mg tab.
trifluoperazine (P), (S), (T)	5 mg tab.

21: DRUGS ACTING ON THE RESPIRATORY TRACT

aminophylline (P), (S), (T), (10)	100 & 200 mg tab. 250 mg inj.
baclomethasone (S), (T)	250 mcg aerosol(as dipropionate)
cromoglycate (T)	1mg/dose aerosol (as disodium) 20 mg cap. (as disodium)
dextromethorphan compound (P), (S), (T)	Syrup
epinephrine (P), (S), (T)	1 mg inj.
salbutamol (P), (S), (T), (10)	2 & 4 mg tab. 2mg/5ml syrup,100 mcg/dose aerosol(T), 50mcg/5ml inj. 5mg (as sulfate)/ml respirator solution for use in nebulizers,
theophylline (P), (S), (T), (11)	180 & 270 mg tab. 350 mg tab. (S.R) 120 mg/5ml syrup.

22: SOLUTIONS CORRECTING WATER,**ELECTROLYTE AND ACID BASE DISTURBANCES**

dextrose + saline (P), (S), (T)	10% + 0.9% IV solution, 5% + 0.45% IV solution, 4.3% + 0.18% IV solution, 3% + 0.3% IV solution
dextran 40 (P), (S), (T)	IV solution
dextrose (P), (S), (T)	5%, 10% & 25% IV solution
normal saline (P), (S), (T)	0.9% & 0.45% IV solution
potassium chloride (P), (S), (T)	500 mg tab. 7.4% IV solution
ringer's lactate (P), (S), (T)	IV solution
sodium bicarbonate (P), (S), (T)	0.7% IV solution
water for inj. (P), (S), (T)	

23: VITAMINS AND MINERALS

ascorbic acid (P), (S), (T)	100 mg tab.
calcium gluconate (P), (S), (T)	100 mg/ml inj.
calcium lactate (P), (S), (T)	10 mg tab.
D - 3 (S), (T)	300000 & 600000 Units
ergocalciferol (P), (S), (T)	1.25 mg (50 000 IU) capsule/tablet, 250 ug/ml (10 000 IU/ml) oral solution
hexavitamin USP (P), (S), (T)	tab. each tab. contains not less than: Vitamin A 5000IU, Vitamin D 400IU Ascorbic Acid 75mg, Thiamine Hydrochloride 2mg, Riboflavin 3mg, Nicotinamide 20 mg.
nicotinamide (P), (S), (T)	50 mg tab.
pyridoxin (P), (S), (T)	25 mg tab. (as hydrochloride)

retinol (P), (S), (T)	10000 IU tab. 100,000 IU inj.
thiamine (P), (S), (T)	100mg/ml inj. (as hydrochloride) 100mg tab. (as hydrochloride)

24: E.N.T. PREPARATIONS

boroglycerine (P), (S), (T)	40%
clotrimazole (T)	1% topical solution
ephedrine nasal drops (P), (S), (T)	0.5%
gentamycin + hydrocortisone (T)	3% + 0.1%
gentian violet (P), (S), (T)	0.5%
ichthamol glycerin BPC (P), (S), (T)	
polymyxin B sulphate + lignocaine hydrochloride (P), (S), (T)	10,000 IU + 50mg/ml ear drops
prednisolone (T)	nasal drops. 5mg tab.
prochlorperazine (P), (S), (T)	5 mg tab.
promethazine (P), (S), (T)	10 & 25 mg tab. 1mg/ml elixir. 25mg inj.
pseudoephedrine compound (S),(3)	tab/syrup
soda glycerine BPC (P), (S), (T)	
xylocaine (P), (S), (T)	2% inj. 4% topical solution, 2% topical gel
xylocaine + adrenaline (T)	2% + 1:80,000, 2% + 1:200,000
xylometazoline (P), (S), (T)	0.1% nasal drops

25: ANTISEPTICS AND DIS-INFECTANTS

25.1 Antiseptics

chlorhexidine gluconate (P), (S), (T)	1.5% solution
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chloroxylenol (P), (S), (T)	4.8% solution
glutaraldehyde (T)	10% solution
glutoral	2% solution)
hydrogen peroxide BP.(P), (S), (T)	solution
povidone iodine (P), (S), (T)	7.5% solution
tincture benzoin co. BP (P), (S), (T)	
tincture iodine (P), (S), (T)	

25.2 Disinfectants

calcium hypochlorite (T)	powder for solution
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26: DENTAL PREPARATIONS (T)

acidulated phosphate fluoride gel
calcium hydroxide paste
camphorated monochlorophenol.
eugenol, also with fillers
formocresol (formaldehyde 19% cresol 35% and glycerol 15%)
iodoform compound paint
mercury
silver alloys
sodium flouride drop/rinse/tab
tannic acid powder
triamcinolone acetonide paste
zinc oxide + magnesium oxide in polyacrylic 40% cement.

27: DISPENSARY ITEMS: (P), (S), (T)

coal tar
cresol

emulsifying wax
formaldehyde
gentian violet
glucose
glycerin
hexylresorcinol throat paint
hydrogen peroxide
iodine
kaolin
linolic acid
liquid paraffin
magnesium sulphate
methylated spirit
paraffin, hard
paraffin, yellow
pectin
peppermint oil
potassium chloride
potassium permanganate
salicylic acid
sodium acid citrate
sodium bicarbonate
soft paraffin wax
sulfer sublime
tannic acid
tragacanth
trisodium citrate dehydrate
turpentine oil
wool fat

zinc oxide powder
zinc undecionate

28: DRUGS FOR LOCAL PURCHASE

Drugs in the following groups are required occasionally. Therefore drugs in these groups can be made available through local purchase by hospitals. Some of the illustrative drugs in these groups are mentioned below:-

28.1 ANTIDOTES AND OTHER SUBSTANCES USED IN POISONING

atropine (P), (S), (T)	2mg/ml inj. (as sulfate)
charcoal, activated (P), (S), (T)	powder
desferrioxamine (S), (T)	500mg inj. (as mesylate)
dimercaprol (S), (T)	100 mg inj.
flumazenil (P), (S), (T)	500 mcg inj.
magnesium sulphate (S,T)	50% inj.
methionine (S), (T)	250 mg tab. (as racemate)
naloxone (P), (S), (T)	0.04 & 0.4 mg inj. (as hydrochloride)
neostigmine (T)	15 mg tab. (as bromide) 0.5mg inj. (methyl sulphate)
obidoxime (T)	250 mg inj. (as chloride)
penicillamine (T)	125 & 250 mg capsule or tablet,
physostigmine (T)	1 mg inj. (salicylate)
pralidoxime (T)	200 mg/ml Inj.
protamine (T)	10 mg inj. (as sulphate)
prussian blue (T)	powder for topical use
sodium calcium edetate (T)	1 gm inj.
sodium nitrite (T)	300 mg inj.
sodium thiosulfate (T)	500mg/ml inj. in 50 ml ampoule.

28.2 Antileprosy Drugs

clofazimine (T)	100 mg cap.
dapsone (T)	50 mg tab.

28.3 ANTI-NEOPLASTICS, IMMUNOSUPPRESSIVES AND DRUGS USED

IN PALLIATIVE CARE

28.3.1 Immunosuppressive Drugs

asparaginase (T), (10)	10,000 iu inj.
aminogluthemide	tab.
anastrozole(T)	1 mg tab.
azathioprine (S), (T), (10)	50 mg tablet
	100 mg inj. (as sodium salt)
bleomycin (T), (10)	15 mg inj. (as sulphate).
busulphan (T)	0.5mg tab.
calcium folinate (T), (10)	15 mg tablet, 30 mg inj.
carboplatin (T)	150 mg & 450 mg inj.
chlorambucil (S), (T), (10)	2 mg tab.
chlormethine (T), (10)	10 mg inj. (as hydrochloride)
cisplatin (T), (10)	10, 25 & 50 mg inj.
cyclophosphamide (T), (10)	50 mg tablet 200, 500 mg & 1 gm inj.
cyproterone acetate (T)	50 mg tab.
cytarabine (T), (10)	100 mg inj.
dacarbazine (T), (10)	200 mg inj.
dactinomycin (T), (10)	0.5mg inj
di-ethylstilboestrol diphosphate sodium (S),(T)	1mg tab.
doxorubicin (T), (10)	10 & 50 mg inj.
etoposide (T)	100mg cap.
	100mg inj.

flutamide (S), (T), (10)	250 mg tab
5-fluorouracil (T)	250 mg inj.
hydroxyurea (S), (T)	500 mg cap.
ifosfamide (T)	inj.
lomustine (T)	cap.
medroxyprogesterone (T)	100 mg tab. 150 mg inj.
megesterol acetate	2mg tab.
mesna (T)	400 mg inj.
melphalan (T)	100 mg inj.
mercaptopurine (T), (10)	50mg tablet
methotrexate (T), (10)	2.5, 5 & 10 mg tab. 5, 50 & 500 mg inj.
mitomycin (T)	inj
mitozantrone (T)	inj
procarbazine (T)	50mg cap. (as hydrochloride)
tamoxifen (S), (T)	10 & 20 mg tab
6 thioguanine (T)	40 mg tab.
vincristine (T), (10)	1 & 5 mg inj. (as sulfate)
vinblastine (T), (10)	inj
vinorelbine (T)	10 & 50 mg inj.

28.4 DIAGNOSTIC AGENTS

barium sulphate (S), (T)	powder for oral use
iodinated poppy	
iodipamide (T)	50% inj.
iohexol (T)	180 & 300 mg/ml inj
iophendylate (T)	30.5% inj.
iothalamate (T)	60% aqueous solution
meglumine diatrizoate BP/USP (T)	inj.
meglumine diatrizoate+	66% + 10% inj

sodium diatrizoate (T)	
meglumine iotroxenate (T)	0.105% & 1.26% solution for inj.
meglumine ioxagalate +sodium ioxagalate (T)	39% + 19.65% inj.
propylidone (T)	10 gm inj
seed oil (T)	inj.
sodium acetrizoate (T)	40% inj
sodium ipodate (T)	500 mg cap.

29: DRUGS FOR SPECIALIZED CENTERS

29.1 Antiretroviral drugs

didanosine (DDI), (T)	buffered chewable, dispersible tablets 25mg, 50mg, 100mg, 150mg, 200mg, buffered powder for oral solution 100mg, 167mg, 250mg packets, unbuffered enteric coated capsule 125mg, 200mg, 250mg, 400mg.
efavirenz (T)	capsule 50mg, 100mg, 200mg, oral solution 150mg/5ml
indinavir (T)	capsule 200mg, 333mg, 400mg, (as sulfate)
lamivudine (3TC), (T)	tablet 150mg, oral solution 50mg/5ml
nelfinavir (T)	tablet 250mg (as mesilate)
nevirapine (T)	tablets 200mg, oral suspension 50mg/5ml
ritonavir (T)	capsule 100mg, oral solution

saquinavir (T)	400mg/5ml capsule 200mg
stavudine (D4T), (T)	capsule 15mg, 20mg, 30mg, 40mg, powder for oral solution 5mg/5ml
zalcitabine (DDC), (T)	tablets 0.375mg, 0.75mg
zidovudine (ZDV), (T)	tablet 300 mg, capsule 100mg, oral solution or syp. 50mg/5ml solution, for IV infusion injection 10mg/ml in 20ml vial.

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zinc sulphate + boric acid	17