**NATIONAL ESSENTIAL DRUGS LIST THIRD REVISION**

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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 alowgwith 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.  
1.        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 |
|  | 2% (hydrochloride) gel. |
| lignocaine + epinephrine (S), (T) | 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.  
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   A**ntibacterials**

|  |  |
| --- | --- |
| 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. |
| methyldopa (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 |
| betamathosone (S), (T) | | 0.1% oint/cream/lotion |
| betamathosone + 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 |
| coaltar 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 methoxasalen (S), (T) | | dressings |
|  | | 10 mg tab. |
|  | | 0.75% oint./cream/lotion. |
| neomycin+bacitracin (P), (S), (T) | | 5mg neomycin sulfate |
|  | | +500 IU bactitracin 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 |
| 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. |
| hydrochlorthiazide (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 + | 400 + 400 mg tab. |
| magenesium hydroxide (P), (S), (T) | 200 + 200 mg/5ml susp. |
| atropine sulphate (P), (S), (T) | 1 mg tab. & 0.5mg inj. |
| bisacodyl (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 (S), (T) | 0.03 mg + 0.15 mg tab. |
| ethynylestradiol + norethisterone (P), (S) | (0.05 mg + 0.5 mg), (35 mcg + 1mg) tab. |
| glibenclamide (P), (S), (T) | 5 mg tab. |
| human chorionic | 1000 & 5000 iu inj. |
| gonadotrophic hormone (T) |  |
| 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. |

15.2 **Sera and Immunologicals**

|  |  |
| --- | --- |
| anti-D immunoglobulin (T) | inj. |
| antiscorpian 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 toxid (P), (S), (T) | inj |

15.3 **Vaccine for Universal Immunization**

|  |  |
| --- | --- |
| BCG (dried) vaccine (P), (S), (T) | inj |
| diptheria-pertussis tetanus vaccine (P), (S), (T) | inj. |
| dipatheria-tetanus vaccine (P), (S), (T) | inj. |
| measles-mumps-rubella |  |
| vaccine (P), (S), (T) | inj. |
| measles vaccine (P), (S), (T) | inj. |
| poliomyelitis vaccine | oral solution |
| (live attenuated) P), (S), (T) |  |
| 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 **Immunosuppressents.**

|  |  |
| --- | --- |
| cyclosporin (T), (10) | 50 mg/ml inj. |
|  | 25 & 100 mg cap |

**16:   MUSCLE RELAXANTS (PERIPHERALLY ACTING) AND CHOLINESTERASE INHIBITORS**

|  |  |
| --- | --- |
| pyridostigmine (S), (T), (8,10) | 60 mg tab. |

**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 zinc (S),(T) | 10,000 IU + 500 IU/gm oint. |
| 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 |
| (levobunalol | 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 |
| phenylepherine (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**

|  |  |
| --- | --- |
| artficial 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**

|  |  |
| --- | --- |
| intraperitonial dialysis parental solution |  |
| (of appropriate composition) (T) |  |

**20:  PSYCHOTHERAPEUTIC DRUGS**

|  |  |
| --- | --- |
| amitryptyline (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. |

|  |  |
| --- | --- |
| trifluperazine (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 |
| erogocalciferol (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 + | 10,000 IU + 50mg/ml ear drops |
| lignocaine hydrochloride (P), (S), (T) |  |
| 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 | tab/syrup |
| compound (S),(3) |  |
| soda glycrine 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 |
| 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 |

**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 undeconate |

**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. |
| anastrazole(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 | 39% + 19.65% inj. |
| +sodium ioxagalate (T) |  |
| propyliodone (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 400mg/5ml |
| saquinavir (T) | 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. |