

DRUG OF CHOICE

INFUSIONMEDZ.COM

NEUROLOGY

Condition	Drug of Choice
Status Epilepticus	Lorazepam (IV)
Migraine (Acute Attack)	Sumatriptan
Migraine (Prophylaxis)	Propranolol
Absence Seizures	Ethosuximide
Generalized Tonic-Clonic Seizures	Valproate
Focal Seizures	Carbamazepine
Parkinson's Disease	Levodopa + Carbidopa
Multiple Sclerosis (Acute Exacerbation)	Methylprednisolone
Myasthenia Gravis	Pyridostigmine
Alzheimer's Disease	Donepezil
Trigeminal Neuralgia	Carbamazepine
Cluster Headache (Acute)	100% Oxygen
Tension-Type Headache	Aspirin
Acute Ischemic Stroke	Alteplase (tPA)
Subarachnoid Hemorrhage (Vasospasm)	Nimodipine
Restless Legs Syndrome	Pramipexole
Guillain-Barré Syndrome	Intravenous Immunoglobulin
Wilson's Disease (Neurological Symptoms)	Penicillamine
Essential Tremor	Propranolol
Huntington's Disease (Chorea)	Tetrabenazine
Duchenne Muscular Dystrophy	Prednisone
Idiopathic Intracranial Hypertension	Acetazolamide
Amyotrophic Lateral Sclerosis (ALS)	Riluzole
Neuropathic Pain	Gabapentin
Bell's Palsy	Prednisolone
Tourette's Syndrome	Haloperidol
Febrile Seizures (Prophylaxis)	Diazepam
Tuberous Sclerosis (Seizures)	Vigabatrin
Lennox-Gastaut Syndrome	Clobazam
Narcolepsy (Excessive Daytime Sleepiness)	Modafinil
Acute Spinal Cord Injury	Methylprednisolone
Hemifacial Spasm	Botulinum Toxin
Postherpetic Neuralgia	Gabapentin

Condition	Drug of Choice
Cerebral Edema	Mannitol
Central Pontine Myelinolysis	Slow Correction of Hyponatremia
Vasovagal Syncope	Fludrocortisone
Neuromyelitis Optica (Acute Attack)	Plasma Exchange
Cluster Headache (Prophylaxis)	Verapamil
Progressive Multifocal Leukoencephalopathy	Antiretroviral Therapy
Spinal Muscular Atrophy	Nusinersen
Dystonia (Generalized)	Trihexyphenidyl
Infantile Spasms	Adrenocorticotrophic Hormone
Tetanus	Metronidazole
Neurosyphilis	Penicillin G
Myoclonic Seizures	Valproate
Acute Intermittent Porphyrria	Hemin
Creutzfeldt-Jakob Disease	Symptomatic Management
Temporal Arteritis (Giant Cell Arteritis)	Prednisolone
Lambert-Eaton Myasthenic Syndrome	3,4-Diaminopyridine
Wernicke's Encephalopathy	Thiamine (IV)

ENDOCRINE DISORDERS

Condition	Drug of Choice
Diabetes Mellitus Type 1	Insulin
Diabetes Mellitus Type 2	Metformin
Diabetic Ketoacidosis	Insulin (IV)
Hyperosmolar Hyperglycemic State	Insulin (IV)
Hypoglycemia	Dextrose (IV)
Graves' Disease (Hyperthyroidism)	Methimazole
Thyroid Storm	Propranolol
Hashimoto's Thyroiditis (Hypothyroidism)	Levothyroxine
Subacute Thyroiditis	Aspirin
Thyrotoxicosis in Pregnancy	Propylthiouracil (PTU)
Congenital Hypothyroidism (Cretinism)	Levothyroxine
Acromegaly	Octreotide
Gigantism	Octreotide
Cushing's Syndrome	Ketoconazole
Addison's Disease	Hydrocortisone
Adrenal Crisis	Hydrocortisone (IV)
Pheochromocytoma	Phenoxybenzamine
Hyperaldosteronism (Conn's Syndrome)	Spirolactone
Syndrome of Inappropriate ADH Secretion (SIADH)	Tolvaptan

Condition	Drug of Choice
Diabetes Insipidus (Central)	Desmopressin
Diabetes Insipidus (Nephrogenic)	Thiazide Diuretics
Hypercalcemia of Malignancy	Zoledronic Acid
Hypocalcemia	Calcium Gluconate (IV)
Primary Hyperparathyroidism	Parathyroidectomy
Hypoparathyroidism	Calcium + Vitamin D
Paget's Disease of Bone	Zoledronic Acid
Osteoporosis	Bisphosphonates
Postmenopausal Osteoporosis	Alendronate
Hyperprolactinemia	Cabergoline
Prolactinoma	Cabergoline
Turner Syndrome (Short Stature)	Growth Hormone
Klinefelter Syndrome (Hypogonadism)	Testosterone Replacement
Androgen Insensitivity Syndrome	Estrogen Replacement
Polycystic Ovary Syndrome (PCOS)	Oral Contraceptive Pills
Hirsutism in PCOS	Spirolactone
Premature Ovarian Failure	Estrogen Replacement Therapy
Hypertriglyceridemia	Fenofibrate
Familial Hypercholesterolemia	Atorvastatin
Metabolic Syndrome	Metformin
Hyperthyroidism due to Toxic Adenoma	Radioactive Iodine
Medullary Thyroid Carcinoma	Surgical Resection
Papillary Thyroid Carcinoma	Thyroidectomy
Multiple Endocrine Neoplasia Type 1 (MEN 1)	Surgical Resection of Tumors
Multiple Endocrine Neoplasia Type 2 (MEN 2)	Surgical Resection
Hyperuricemia (Gout)	Allopurinol
Adrenal Insufficiency in Sepsis	Hydrocortisone (IV)
Hirsutism in Non-PCOS Causes	Eflornithine
Congenital Adrenal Hyperplasia (21-Hydroxylase Def)	Hydrocortisone
Hypergonadotropic Hypogonadism	Testosterone Replacement
Hypogonadotropic Hypogonadism	Gonadotropin Therapy

Cardiac Disorders

Condition	Drug of Choice
Acute Coronary Syndrome (ACS)	Aspirin
STEMI (ST-Elevation Myocardial Infarction)	Alteplase (Thrombolysis)
NSTEMI (Non-ST-Elevation Myocardial Infarction)	Enoxaparin (LMWH)
Stable Angina	Nitroglycerin
Unstable Angina	Aspirin

Condition	Drug of Choice
Hypertension	ACE Inhibitors (e.g., Enalapril)
Hypertensive Emergency	Sodium Nitroprusside
Chronic Heart Failure	ACE Inhibitors
Acute Heart Failure	Furosemide
Cardiogenic Shock	Dobutamine
Atrial Fibrillation (Rate Control)	Metoprolol
Atrial Fibrillation (Rhythm Control)	Amiodarone
Atrial Flutter	Amiodarone
Supraventricular Tachycardia (SVT)	Adenosine
Ventricular Tachycardia	Amiodarone
Ventricular Fibrillation	Amiodarone
Torsades de Pointes	Magnesium Sulfate
Bradycardia	Atropine
Heart Block (Complete)	Temporary Pacemaker
Dilated Cardiomyopathy	ACE Inhibitors
Hypertrophic Cardiomyopathy	Beta Blockers
Restrictive Cardiomyopathy	Diuretics
Pulmonary Edema	Furosemide
Pericarditis	NSAIDs (e.g., Ibuprofen)
Cardiac Tamponade	Pericardiocentesis
Myocarditis	Supportive Care
Rheumatic Fever (Prophylaxis)	Penicillin
Infective Endocarditis	Vancomycin
Mitral Stenosis	Diuretics
Aortic Stenosis	Surgical Valve Replacement
Mitral Regurgitation	Diuretics
Aortic Regurgitation	ACE Inhibitors
Pulmonary Hypertension	Sildenafil
Deep Vein Thrombosis (DVT)	Enoxaparin (LMWH)
Pulmonary Embolism	Heparin
Long QT Syndrome	Beta Blockers
Acute Aortic Dissection	Esmolol
Hypercholesterolemia	Atorvastatin
Hypertriglyceridemia	Fenofibrate
Chronic Stable Angina	Beta Blockers
Prinzmetal's (Variant) Angina	Calcium Channel Blockers (e.g., Amlodipine)
Wolff-Parkinson-White (WPW) Syndrome	Procainamide
Eisenmenger Syndrome	Sildenafil
Post-MI Prophylaxis	Beta Blockers
Thromboembolism in Atrial Fibrillation	Warfarin

Condition	Drug of Choice
Peripheral Artery Disease	Aspirin
Stable Atherosclerotic Cardiovascular Disease	Atorvastatin
Congenital Long QT Syndrome	Beta Blockers
Kawasaki Disease (Cardiac Complications)	IV Immunoglobulin + Aspirin
Coarctation of the Aorta	Surgical Repair
Marfan Syndrome (Cardiac Manifestations)	Beta Blockers

Condition	Drug of Choice
Acute Rheumatic Fever (Carditis)	Aspirin
Hypertensive Urgency	Captopril
Secondary Prevention of Myocardial Infarction	Aspirin
Cardiomyopathy due to Alcohol	Abstinence and Beta Blockers
Patent Ductus Arteriosus (PDA) in Preterm Infants	Indomethacin
Coarctation of the Aorta (Infants with Heart Failure)	Prostaglandin E1
Cor Pulmonale (Right Heart Failure due to Lung Disease)	Diuretics
Atrial Septal Defect (Large)	Surgical Closure
Ventricular Septal Defect (Large)	Surgical Repair
Tetralogy of Fallot (Acute Hypercyanotic Spell)	Propranolol
Eisenmenger Syndrome (Heart Failure)	Oxygen Therapy
Familial Hyperlipidemia	Statins (e.g., Atorvastatin)
Takotsubo Cardiomyopathy (Stress Cardiomyopathy)	Beta Blockers
Hypertrophic Obstructive Cardiomyopathy (HOCM)	Beta Blockers
Atrial Fibrillation in Thyrotoxicosis	Propranolol
Chronic Stable Angina in Diabetics	ACE Inhibitors
Arrhythmias due to Digitalis Toxicity	Digoxin-Specific Antibody (Digibind)
Acute Pericarditis with Large Effusion	NSAIDs
Cardiomyopathy due to Chemotherapy (e.g., Doxorubicin)	Dexrazoxane
Aortic Aneurysm (Marfan Syndrome)	Beta Blockers
Acute Limb Ischemia	Heparin
Chronic Limb Ischemia	Cilostazol
Buerger's Disease (Thromboangiitis Obliterans)	Smoking Cessation
Carcinoid Heart Disease	Octreotide
Peripartum Cardiomyopathy	Bromocriptine
Hyperthyroidism-Induced Atrial Fibrillation	Propranolol
Acute Coronary Syndrome in Cocaine Users	Benzodiazepines
Catecholaminergic Polymorphic Ventricular Tachycardia	Beta Blockers
Left Ventricular Hypertrophy due to Hypertension	ACE Inhibitors
Hypertensive Encephalopathy	Labetalol
Bradycardia in Acute Inferior MI	Atropine
Hyperkalemia-Induced Cardiac Arrest	Calcium Gluconate

Condition	Drug of Choice
Acute Coronary Syndrome (Anticoagulation)	Enoxaparin (LMWH)
Post-Cardiac Arrest (Neuroprotection)	Therapeutic Hypothermia
Cardiac Amyloidosis	Tafamidis
Tricuspid Regurgitation	Diuretics
Mitral Valve Prolapse	Beta Blockers
Cardioversion for Atrial Fibrillation	Amiodarone
Drug-Induced Long QT Syndrome	Magnesium Sulfate
Post-MI Ventricular Septal Rupture	Surgical Repair
Cardiac Sarcoidosis	Corticosteroids
Malignant Hypertension	Sodium Nitroprusside
Prosthetic Valve Thrombosis	Thrombolytics (Alteplase)
Post-CABG Atrial Fibrillation	Beta Blockers
Post-Heart Transplant Rejection	Corticosteroids
Hyperaldosteronism-Induced Hypertension	Spirolactone
Cardiomyopathy due to Hypertension	ACE Inhibitors
Rheumatic Mitral Stenosis	Diuretics
Aortic Regurgitation due to Rheumatic Fever	Vasodilators (ACE Inhibitors)

PULMONARY DISORDERS

Condition	Drug of Choice
Asthma (Acute Exacerbation)	Salbutamol (Inhaled)
Asthma (Chronic Management)	Inhaled Corticosteroids (e.g., Budesonide)
COPD (Chronic Obstructive Pulmonary Disease)	Tiotropium (Long-acting anticholinergic)
Acute Exacerbation of COPD	Prednisolone
Pneumonia (Community-Acquired)	Amoxicillin
Pneumonia (Hospital-Acquired)	Piperacillin-Tazobactam
Tuberculosis (Pulmonary)	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol
Latent Tuberculosis	Isoniazid
Pleural Effusion (Infectious)	Antibiotics (based on culture)
Pulmonary Embolism (Acute)	Heparin
Pulmonary Embolism (Chronic Management)	Warfarin
Sarcoidosis (Pulmonary Involvement)	Prednisolone
Pneumocystis jiroveci Pneumonia (PCP)	Trimethoprim-Sulfamethoxazole (TMP-SMX)
Cystic Fibrosis (Pulmonary Manifestations)	Ivacaftor
Pulmonary Hypertension	Sildenafil
Acute Respiratory Distress Syndrome (ARDS)	Low Tidal Volume Ventilation (Supportive)
Pulmonary Fibrosis (Idiopathic)	Pirfenidone
Hypersensitivity Pneumonitis	Corticosteroids
Acute Bronchitis	Symptomatic Treatment (Supportive)

Condition	Drug of Choice
Chronic Bronchitis	Inhaled Corticosteroids
Influenza (Seasonal)	Oseltamivir
COVID-19 (Severe)	Dexamethasone
Croup (Laryngotracheobronchitis)	Dexamethasone
Respiratory Syncytial Virus (RSV) Infection	Ribavirin
Aspiration Pneumonia	Clindamycin
Acute Pulmonary Edema	Furosemide
Lung Abscess	Clindamycin
Bronchiectasis	Azithromycin
Alpha-1 Antitrypsin Deficiency (Pulmonary Manifestations)	Alpha-1 Antitrypsin Replacement Therapy
Allergic Bronchopulmonary Aspergillosis (ABPA)	Prednisolone
Pneumothorax	Needle Aspiration
Tension Pneumothorax	Immediate Needle Decompression
Massive Hemoptysis	Bronchial Artery Embolization
Sleep Apnea (Obstructive)	Continuous Positive Airway Pressure (CPAP)
Pulmonary Nocardiosis	Trimethoprim-Sulfamethoxazole (TMP-SMX)
Bronchiolitis Obliterans	Corticosteroids
Silicosis	Corticosteroids (For symptomatic relief)
Asbestosis	Supportive (No specific treatment)
Goodpasture Syndrome (Pulmonary-Renal Syndrome)	Plasmapheresis + Corticosteroids
Wegener's Granulomatosis (Granulomatosis with Polyangiitis)	Cyclophosphamide + Corticosteroids
Acute Epiglottitis	Ceftriaxone
Legionnaire's Disease	Levofloxacin
Mycoplasma Pneumonia	Azithromycin
Pulmonary Hypertension (due to Left Heart Disease)	Diuretics
Pulmonary Embolism Prophylaxis (Post-Surgery)	Enoxaparin (LMWH)
Chronic Thromboembolic Pulmonary Hypertension (CTEPH)	Riociguat
Allergic Rhinitis	Intranasal Corticosteroids
Inhalation Anthrax	Ciprofloxacin
Bronchospasm (Exercise-Induced)	Salbutamol (Inhaled)
Occupational Asthma	Inhaled Corticosteroids

Condition	Drug of Choice
Pneumonia (Aspiration)	Clindamycin
Legionella Pneumonia	Levofloxacin
Pulmonary Edema (Cardiogenic)	Furosemide
Pulmonary Edema (Non-cardiogenic)	Supportive (Oxygen, Mechanical Ventilation)
Eosinophilic Pneumonia	Corticosteroids
Cryptogenic Organizing Pneumonia (COP)	Prednisolone
Pulmonary Embolism in Pregnancy	Low Molecular Weight Heparin (LMWH)

Condition	Drug of Choice
Neonatal Respiratory Distress Syndrome (RDS)	Surfactant Replacement Therapy
Bacterial Tracheitis	Ceftriaxone + Vancomycin
Pulmonary Alveolar Proteinosis	Whole Lung Lavage
Diffuse Alveolar Hemorrhage	Corticosteroids
Primary Spontaneous Pneumothorax	Needle Aspiration
Secondary Spontaneous Pneumothorax	Chest Tube Insertion
Postoperative Pulmonary Complications (Prevention)	Incentive Spirometry
Pulmonary Hypertension (Group 1 - Idiopathic)	Bosentan
Drug-Induced Pulmonary Fibrosis	Discontinue Offending Drug
High Altitude Pulmonary Edema (HAPE)	Nifedipine
Pulmonary Tuberculosis in HIV Patients	Rifabutin (instead of Rifampicin)
Aspiration of Foreign Body (Children)	Bronchoscopy
Pulmonary Arterial Hypertension (PAH)	Epoprostenol
Allergic Rhinitis (Moderate-Severe)	Intranasal Corticosteroids
Post-Intubation Tracheal Stenosis	Dilation or Laser Therapy
Pulmonary Arterial Hypertension in Newborns	Inhaled Nitric Oxide
Churg-Strauss Syndrome (Eosinophilic Granulomatosis with Polyangiitis)	Corticosteroids
Pulmonary Blastomycosis	Itraconazole
Histoplasmosis (Pulmonary)	Itraconazole
Pulmonary Coccidioidomycosis	Fluconazole
Acute Lung Injury (Non-ARDS)	Supportive Care
Bronchiolitis (Acute Viral)	Supportive Care (Oxygen)
Pertussis (Whooping Cough)	Azithromycin
Chronic Cough (Due to ACE Inhibitors)	Discontinue ACE Inhibitor
Pulmonary Vasculitis	Cyclophosphamide + Corticosteroids
Tropical Pulmonary Eosinophilia	Diethylcarbamazine (DEC)
Emphysema (COPD-related)	Tiotropium
Acute Mountain Sickness	Acetazolamide
Silicosis (Severe)	Corticosteroids
Asbestos-Related Pleural Disease	Supportive
Severe Asthma (Non-responding to initial treatment)	Magnesium Sulfate (IV)
Pulmonary Histoplasmosis (Disseminated)	Amphotericin B
Pulmonary Lymphangiomyomatosis (LAM)	Sirolimus
Chylothorax	Ocreotide
Goodpasture Syndrome (Pulmonary Hemorrhage)	Plasmapheresis + Corticosteroids
Parapneumonic Effusion (Complicated)	Intrapleural Fibrinolytics (e.g., Streptokinase)
Hantavirus Pulmonary Syndrome	Supportive Care (Ventilatory Support)
Pulmonary Aspergilloma	Surgical Resection
Recurrent Pulmonary Embolism	Warfarin
Loffler's Syndrome	Corticosteroids

Condition	Drug of Choice
Caplan's Syndrome (Rheumatoid Pneumoconiosis)	Corticosteroids
Bronchogenic Carcinoma (Small Cell)	Cisplatin + Etoposide

BACTERIAL INFECTIONS

Condition	Drug of Choice
Streptococcal Pharyngitis	Penicillin V
Bacterial Meningitis (Adult)	Ceftriaxone + Vancomycin
Bacterial Meningitis (Neonates)	Ampicillin + Gentamicin
Pneumococcal Pneumonia	Amoxicillin
Staphylococcus Aureus Infection (MSSA)	Nafcillin
Methicillin-Resistant Staphylococcus Aureus (MRSA)	Vancomycin
Gonorrhoea	Ceftriaxone
Syphilis	Penicillin G
Chlamydia	Azithromycin
Diphtheria	Diphtheria Antitoxin + Erythromycin
Tetanus	Metronidazole
Pertussis (Whooping Cough)	Azithromycin
Tuberculosis	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol
Leprosy (Multibacillary)	Rifampicin + Dapsone + Clofazimine
Leprosy (Paucibacillary)	Rifampicin + Dapsone
Anthrax	Ciprofloxacin
Cholera	Doxycycline
Typhoid Fever	Ceftriaxone
Lyme Disease	Doxycycline
Rocky Mountain Spotted Fever	Doxycycline
Brucellosis	Doxycycline + Rifampicin
Legionnaire's Disease	Levofloxacin
Haemophilus influenzae (Type B) Infection	Ceftriaxone
Listeriosis	Ampicillin
Neisseria meningitidis (Meningococcal) Infection	Ceftriaxone
Clostridium difficile Infection (CDI)	Oral Vancomycin
Pseudomonas aeruginosa Infection	Piperacillin-Tazobactam
Klebsiella Pneumonia	Carbapenems
Enterococcus faecalis (Non-VRE)	Ampicillin
Vancomycin-Resistant Enterococcus (VRE)	Linezolid
Bacillus cereus Food Poisoning	Supportive Care
Campylobacter jejuni Gastroenteritis	Azithromycin
Helicobacter pylori Infection	Clarithromycin + Amoxicillin + PPI
Clostridium perfringens (Gas Gangrene)	Penicillin G

Condition	Drug of Choice
Actinomycosis	Penicillin G
Cat Scratch Disease (<i>Bartonella henselae</i>)	Azithromycin
Erysipelas	Penicillin G
Bacterial Endocarditis (Native Valve)	Ceftriaxone + Vancomycin
Bacterial Endocarditis (Prosthetic Valve)	Vancomycin + Gentamicin + Rifampicin
Necrotizing Fasciitis	Piperacillin-Tazobactam + Clindamycin
Osteomyelitis (Hematogenous)	Nafcillin (If MSSA)
Septic Arthritis (Adults)	Ceftriaxone
Pyelonephritis (Complicated)	Ciprofloxacin
Urinary Tract Infection (Uncomplicated)	Nitrofurantoin
Prostatitis (Acute)	Ciprofloxacin
Gonococcal Conjunctivitis (Adults)	Ceftriaxone
Trachoma (<i>Chlamydia trachomatis</i>)	Azithromycin
Leptospirosis	Doxycycline
Plague (<i>Yersinia pestis</i>)	Streptomycin
Tularemia	Streptomycin
<i>Haemophilus ducreyi</i> (Chancroid)	Azithromycin
Shigellosis	Ciprofloxacin

Condition	Drug of Choice
Bacterial Vaginosis	Metronidazole
Bacterial Conjunctivitis	Ciprofloxacin Eye Drops
Ludwig's Angina	Ampicillin-Sulbactam
<i>Bordetella pertussis</i> Infection	Azithromycin
Nocardiosis	Trimethoprim-Sulfamethoxazole (TMP-SMX)
<i>Pasteurella multocida</i> (Animal Bite)	Amoxicillin-Clavulanate
<i>Bacteroides fragilis</i> (Anaerobic Infection)	Metronidazole
<i>Pseudomonas aeruginosa</i> (UTI)	Ciprofloxacin
<i>Vibrio vulnificus</i> Infection	Doxycycline
<i>Eikenella corrodens</i> (Human Bite Wound)	Amoxicillin-Clavulanate
Rat-Bite Fever (<i>Streptobacillus moniliformis</i>)	Penicillin G
<i>Serratia marcescens</i> Infection	Cefepime
<i>Yersinia enterocolitica</i> Gastroenteritis	Ciprofloxacin
<i>Haemophilus influenzae</i> (Non-Typeable Otitis Media)	Amoxicillin-Clavulanate
<i>Francisella tularensis</i> (Tularemia)	Streptomycin
<i>Bartonella Quintana</i> (Trench Fever)	Doxycycline
<i>Vibrio cholerae</i> (Severe Cholera)	Doxycycline
<i>Burkholderia pseudomallei</i> (Meloidosis)	Ceftazidime
<i>Corynebacterium diphtheriae</i> (Cutaneous Diphtheria)	Erythromycin
<i>Aeromonas hydrophila</i> (Necrotizing Soft Tissue Infection)	Doxycycline

Condition	Drug of Choice
Bordetella bronchiseptica (Canine Cough)	Doxycycline
Leptospirosis (Weil's Disease)	Penicillin G
Erysipelothrix rhusiopathiae (Erysipeloid)	Penicillin G
Clostridium tetani (Tetanus)	Metronidazole
Propionibacterium acnes (Acne)	Doxycycline
Vibrio parahaemolyticus (Gastroenteritis)	Supportive Care
Haemophilus ducreyi (Chancroid)	Azithromycin
Lactobacillus Infection	Penicillin G
Listeria monocytogenes (Listeriosis)	Ampicillin
Rickettsia rickettsii (Rocky Mountain Spotted Fever)	Doxycycline
Streptococcus agalactiae (Neonatal Sepsis)	Penicillin G
Treponema pallidum (Syphilis)	Penicillin G
Streptococcus bovis (Endocarditis)	Penicillin G
Salmonella typhi (Typhoid Fever)	Ceftriaxone
Shigella dysenteriae (Bacillary Dysentery)	Ciprofloxacin
Lymphogranuloma venereum (Chlamydia trachomatis)	Doxycycline
Treponema pallidum (Congenital Syphilis)	Penicillin G
Cutaneous Anthrax	Ciprofloxacin
Enterococcal Endocarditis	Ampicillin + Gentamicin
Escherichia coli (Neonatal Meningitis)	Ceftriaxone
Group A Streptococcal Pharyngitis	Penicillin V
Haemophilus influenzae (Epiglottitis)	Ceftriaxone
Vibrio vulnificus (Wound Infection)	Doxycycline
Listeria monocytogenes (Meningitis in Immunocompromised)	Ampicillin
Methicillin-Sensitive Staphylococcus aureus (MSSA)	Nafcillin
Actinobacillus actinomycetemcomitans (Endocarditis)	Ceftriaxone
Bacillus anthracis (Inhalational Anthrax)	Ciprofloxacin
Haemophilus influenzae (Septic Arthritis)	Ceftriaxone
Neisseria gonorrhoeae (Disseminated Gonococcal Infection)	Ceftriaxone

VIRAL INFECTIONS

Condition	Drug of Choice
Influenza (Seasonal)	Oseltamivir
Herpes Simplex Virus (HSV) – Oral/Genital	Acyclovir
Herpes Zoster (Shingles)	Acyclovir
Varicella (Chickenpox)	Acyclovir
Cytomegalovirus (CMV) Retinitis	Ganciclovir
Epstein-Barr Virus (Infectious Mononucleosis)	Supportive Care
HIV (Human Immunodeficiency Virus)	Tenofovir + Emtricitabine + Efavirenz
HIV Prophylaxis (Post-Exposure)	Tenofovir + Emtricitabine

Condition	Drug of Choice
Hepatitis B (Chronic)	Entecavir
Hepatitis C (Chronic, Genotype 1)	Sofosbuvir + Ledipasvir
Rabies (Post-Exposure Prophylaxis)	Rabies Immunoglobulin + Vaccine
Measles	Vitamin A + Supportive Care
Mumps	Supportive Care
Rubella (German Measles)	Supportive Care
Human Papillomavirus (HPV, Genital Warts)	Imiquimod
Respiratory Syncytial Virus (RSV) – Severe Cases	Ribavirin
Coronavirus Disease 2019 (COVID-19)	Dexamethasone
Dengue (Severe)	Supportive Care (Fluids, Monitoring)
Zika Virus	Supportive Care
Ebola Virus Disease	Supportive Care
Hantavirus Pulmonary Syndrome	Supportive Care
Lassa Fever	Ribavirin
Yellow Fever	Supportive Care
Smallpox (Variola)	Cidofovir
Human Parainfluenza Virus	Supportive Care
Hepatitis A	Supportive Care
Hepatitis E	Supportive Care
Rotavirus (Severe Dehydration)	Oral Rehydration Therapy (ORT)
Norovirus	Supportive Care
Human T-cell Leukemia Virus (HTLV-1)	Supportive Care
Molluscum Contagiosum	Supportive Care
Adenovirus (Pharyngoconjunctival Fever)	Supportive Care
Enterovirus (Hand, Foot, and Mouth Disease)	Supportive Care
Polio (Acute Flaccid Paralysis)	Supportive Care (Prevent with Vaccine)
Rabies (Pre-Exposure Prophylaxis)	Rabies Vaccine
Hepatitis D (Coinfection with Hepatitis B)	Interferon-alpha
Human Metapneumovirus (hMPV) Infection	Supportive Care
Herpes Simplex Encephalitis	Acyclovir
Japanese Encephalitis	Supportive Care
West Nile Virus (Severe)	Supportive Care
Rift Valley Fever	Ribavirin
Crimean-Congo Hemorrhagic Fever	Ribavirin
Marburg Virus Disease	Supportive Care
Severe Acute Respiratory Syndrome (SARS)	Supportive Care
Middle East Respiratory Syndrome (MERS)	Supportive Care
Human Immunodeficiency Virus (HIV, Vertical Transmission)	Zidovudine
Herpes Zoster Ophthalmicus	Acyclovir
Hepatitis C (Genotype 3)	Sofosbuvir + Daclatasvir

Condition	Drug of Choice
Progressive Multifocal Leukoencephalopathy (JC Virus)	Supportive Care (HAART in HIV patients)
Roseola (HHV-6)	Supportive Care
Kaposi's Sarcoma (HHV-8)	HAART (Highly Active Antiretroviral Therapy)

FUNGAL INFECTIONS

Condition	Drug of Choice
Candidiasis (Oropharyngeal/Esophageal)	Fluconazole
Candidiasis (Vaginal)	Fluconazole
Invasive Candidiasis	Echinocandins (e.g., Caspofungin)
Cryptococcal Meningitis	Amphotericin B + Flucytosine
Aspergillosis (Invasive)	Voriconazole
Allergic Bronchopulmonary Aspergillosis (ABPA)	Prednisolone
Mucormycosis (Zygomycosis)	Amphotericin B
Histoplasmosis	Itraconazole
Blastomycosis	Itraconazole
Coccidioidomycosis (Valley Fever)	Fluconazole
Sporotrichosis (Lymphocutaneous)	Itraconazole
Tinea Capitis (Scalp Ringworm)	Griseofulvin
Tinea Corporis (Ringworm of Body)	Terbinafine
Tinea Pedis (Athlete's Foot)	Terbinafine
Onychomycosis (Fungal Nail Infection)	Terbinafine
Pityriasis Versicolor (Tinea Versicolor)	Ketoconazole (Topical)
Chromoblastomycosis	Itraconazole
Paracoccidioidomycosis	Itraconazole
Penicilliosis (Talaromycosis)	Amphotericin B
White Piedra	Topical Azoles
Black Piedra	Terbinafine (Oral)
Fusariosis	Voriconazole
Dermatophytosis (Extensive)	Terbinafine
Mycetoma (Eumycetoma)	Itraconazole
Tinea Cruris (Jock Itch)	Terbinafine
Pneumocystis jiroveci Pneumonia (PCP)	Trimethoprim-Sulfamethoxazole (TMP-SMX)
Dermatophytosis (Localized)	Topical Azoles
Cryptococcosis (Non-CNS Infection)	Fluconazole
Exophiala Infections (Dematiaceous Fungi)	Itraconazole
Candida Endocarditis	Amphotericin B + Valve Surgery
Fusarium Keratitis	Voriconazole
Scedosporium Infections	Voriconazole

PARASITIC INFECTIONS

Condition	Drug of Choice
Malaria (Plasmodium falciparum, Uncomplicated)	Artemether-Lumefantrine
Malaria (Severe)	Artesunate (IV)
Malaria (Plasmodium vivax)	Chloroquine + Primaquine
Toxoplasmosis (CNS Infection)	Pyrimethamine + Sulfadiazine
Leishmaniasis (Visceral, Kala-Azar)	Liposomal Amphotericin B
Leishmaniasis (Cutaneous)	Sodium Stibogluconate
African Trypanosomiasis (T.b. gambiense - 1st stage)	Pentamidine
African Trypanosomiasis (T.b. gambiense - 2nd stage)	Eflornithine
African Trypanosomiasis (T.b. rhodesiense - 1st stage)	Suramin
African Trypanosomiasis (T.b. rhodesiense - 2nd stage)	Melarsoprol
American Trypanosomiasis (Chagas Disease)	Benznidazole
Amebiasis (Intestinal)	Metronidazole
Amebic Liver Abscess	Metronidazole
Giardiasis	Metronidazole
Trichomoniasis	Metronidazole
Cryptosporidiosis	Nitazoxanide
Ascariasis	Albendazole
Enterobiasis (Pinworm)	Albendazole
Strongyloidiasis	Ivermectin
Hookworm Infection	Albendazole
Taeniasis (Tapeworm)	Praziquantel
Cysticercosis (Neurocysticercosis)	Albendazole + Dexamethasone
Schistosomiasis	Praziquantel
Echinococcosis (Hydatid Disease)	Albendazole
Filariasis (Lymphatic)	Diethylcarbamazine (DEC)
Loiasis (Loa loa)	Diethylcarbamazine (DEC)
Onchocerciasis (River Blindness)	Ivermectin
Toxocariasis	Albendazole
Dracunculiasis (Guinea Worm Disease)	Mechanical Extraction (No drug)
Babesiosis	Atovaquone + Azithromycin
Trichinosis	Albendazole
Fascioliasis (Liver Fluke)	Triclabendazole
Clonorchiasis (Chinese Liver Fluke)	Praziquantel
Paragonimiasis (Lung Fluke)	Praziquantel
Diphyllobothriasis (Fish Tapeworm)	Praziquantel
Balantidiasis	Tetracycline
Blastocystis Infection	Metronidazole
Toxoplasmosis (Prophylaxis in HIV patients)	TMP-SMX
Leishmaniasis (Mucocutaneous)	Amphotericin B

HIV INFECTION

Condition	Drug of Choice
HIV Initial Treatment (ART)	Tenofovir + Emtricitabine + Efavirenz
HIV Post-Exposure Prophylaxis (PEP)	Tenofovir + Emtricitabine + Raltegravir
HIV Pre-Exposure Prophylaxis (PrEP)	Tenofovir + Emtricitabine
HIV Prophylaxis for Vertical Transmission (Pregnant Women)	Zidovudine + Nevirapine + Lamivudine
HIV Postpartum Prophylaxis (Infant)	Zidovudine
Pneumocystis jiroveci Pneumonia (PCP) Prophylaxis	Trimethoprim-Sulfamethoxazole (TMP-SMX)
Toxoplasmosis Prophylaxis (CD4 <100 cells/mm ³)	Trimethoprim-Sulfamethoxazole (TMP-SMX)
Mycobacterium avium complex (MAC) Prophylaxis (CD4 <50 cells/mm ³)	Azithromycin
HIV-Associated Cryptococcal Meningitis	Amphotericin B + Flucytosine
HIV-Associated Kaposi's Sarcoma	HAART (Highly Active Antiretroviral Therapy)
HIV-Associated Cytomegalovirus (CMV) Retinitis	Ganciclovir
HIV-Associated Herpes Simplex Virus (HSV)	Acyclovir
HIV-Associated Tuberculosis (Pulmonary TB with HIV)	Rifabutin + Isoniazid + Pyrazinamide + Ethambutol
HIV-Associated Esophageal Candidiasis	Fluconazole
HIV-Associated Progressive Multifocal Leukoencephalopathy (PML)	HAART (Antiretroviral Therapy)
HIV-Associated Wasting Syndrome	Megestrol Acetate
HIV and Hepatitis B Coinfection	Tenofovir + Lamivudine

TUBERCULOSIS (TB)

Condition	Drug of Choice
Active Pulmonary TB (Drug-Sensitive)	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol (First 2 months) followed by Isoniazid + Rifampicin (Next 4 months)
Latent TB Infection (LTBI)	Isoniazid for 6-9 months
Multidrug-Resistant TB (MDR-TB)	Bedaquiline + Linezolid + Levofloxacin + Clofazimine
Extensively Drug-Resistant TB (XDR-TB)	Bedaquiline + Pretomanid + Linezolid
Tuberculous Meningitis	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol + Steroids
Miliary TB	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol
TB Prophylaxis in HIV Patients	Isoniazid for 9 months
TB in Pregnancy	Isoniazid + Rifampicin + Ethambutol + Pyrazinamide (safe in pregnancy)
TB in Children	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol
TB Lymphadenitis	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol
TB Pericarditis	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol + Steroids
Osteoarticular TB	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol
Drug-Resistant TB (Pre-XDR TB)	Bedaquiline + Linezolid + Levofloxacin
Pleural TB	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol
Genitourinary TB	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol
TB in Renal Failure	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol (with dose adjustments)

Condition	Drug of Choice
TB with Hepatic Impairment	Modified regimen based on liver function (e.g., Isoniazid + Ethambutol)
TB Prophylaxis in Children (Household Contact of Active TB)	Isoniazid for 6-9 months
TB in Patients on Dialysis	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol (with dose adjustments)
Spinal TB (Pott's Disease)	Isoniazid + Rifampicin + Pyrazinamide + Ethambutol

GASTROENTEROLOGY DISORDERS

Condition	Drug of Choice
Gastroesophageal Reflux Disease (GERD)	Proton Pump Inhibitors (e.g., Omeprazole)
Peptic Ulcer Disease (H. pylori-related)	Clarithromycin + Amoxicillin + PPI
Peptic Ulcer Disease (Non-H. pylori)	Proton Pump Inhibitors (e.g., Omeprazole)
Acute Gastroenteritis	Oral Rehydration Solution (ORS)
Clostridium difficile Colitis	Oral Vancomycin
Helicobacter pylori Infection	Clarithromycin + Amoxicillin + PPI
Celiac Disease	Gluten-Free Diet
Crohn's Disease (Mild to Moderate)	Mesalamine
Crohn's Disease (Severe)	Infliximab
Ulcerative Colitis (Mild to Moderate)	Mesalamine
Ulcerative Colitis (Severe)	Infliximab
Hepatic Encephalopathy	Lactulose
Non-Alcoholic Fatty Liver Disease (NAFLD)	Lifestyle Modification (Diet & Exercise)
Acute Pancreatitis	Supportive Care (IV fluids, analgesics)
Chronic Pancreatitis	Pancreatic Enzyme Supplementation
Autoimmune Hepatitis	Prednisolone
Primary Biliary Cholangitis	Ursodeoxycholic Acid
Primary Sclerosing Cholangitis	Ursodeoxycholic Acid
Hepatitis B (Chronic)	Tenofovir
Hepatitis C (Chronic, Genotype 1)	Sofosbuvir + Ledipasvir
Hepatitis E (Acute in Pregnancy)	Supportive Care
Ascites Due to Cirrhosis	Spirolactone + Furosemide
Spontaneous Bacterial Peritonitis (SBP)	Cefotaxime
Wilson's Disease	Penicillamine
Hemochromatosis	Phlebotomy
Acute Variceal Bleeding	Octreotide
Variceal Prophylaxis (Prevention of Bleeding)	Propranolol
Esophageal Varices	Endoscopic Band Ligation
Esophageal Achalasia	Pneumatic Dilation or Botulinum Toxin
Barrett's Esophagus	Proton Pump Inhibitors (e.g., Omeprazole)

Condition	Drug of Choice
Irritable Bowel Syndrome (IBS, Diarrhea-Predominant)	Loperamide
Irritable Bowel Syndrome (IBS, Constipation-Predominant)	Linaclotide
Small Intestinal Bacterial Overgrowth (SIBO)	Rifaximin
Biliary Colic	NSAIDs
Gallstone Disease (Symptomatic)	Laparoscopic Cholecystectomy
Acute Cholangitis	Piperacillin-Tazobactam
Acute Hepatitis A	Supportive Care
Acute Hepatitis B	Supportive Care
Hepatorenal Syndrome	Terlipressin + Albumin
Wilson's Disease (Neurological Symptoms)	Penicillamine
Hepatocellular Carcinoma (Non-Surgical)	Sorafenib
Portal Hypertension	Propranolol
Diverticulitis (Mild to Moderate)	Ciprofloxacin + Metronidazole
C. difficile Infection (Recurrent)	Fidaxomicin
Esophageal Candidiasis	Fluconazole
Giardia lamblia Infection	Metronidazole
Amebic Liver Abscess	Metronidazole
Eosinophilic Esophagitis	Fluticasone (Swallowed)
Whipple's Disease	Ceftriaxone
Tropical Sprue	Tetracycline + Folic Acid
Zollinger-Ellison Syndrome	Proton Pump Inhibitors (e.g., Omeprazole)

Condition	Drug of Choice
Acute Mesenteric Ischemia	Surgical Intervention (No specific drug)
Chronic Mesenteric Ischemia	Surgical Revascularization
Celiac Disease (Refractory)	Immunosuppressants (e.g., Azathioprine)
Portal Vein Thrombosis	Anticoagulation (Heparin/Warfarin)
Bile Acid Diarrhea	Cholestyramine
Intestinal Pseudo-Obstruction	Neostigmine
Short Bowel Syndrome	Parenteral Nutrition + Teduglutide
Acute Diverticulitis (Complicated)	Piperacillin-Tazobactam
Carcinoid Syndrome	Octreotide
Esophageal Spasm	Calcium Channel Blockers (e.g., Diltiazem)
Hepatic Adenoma (Asymptomatic)	Observation (No specific drug)
Hepatic Adenoma (Symptomatic)	Surgical Resection
Budd-Chiari Syndrome	Anticoagulation
Splenic Vein Thrombosis	Anticoagulation
Microscopic Colitis	Budesonide
Non-Alcoholic Steatohepatitis (NASH)	Weight Loss + Vitamin E
Ischemic Colitis	Supportive Care (IV fluids)

Condition	Drug of Choice
Hepatic Hydatid Cyst (Echinococcosis)	Albendazole
Tropical Liver Abscess	Metronidazole
Toxic Megacolon (Ulcerative Colitis Complication)	IV Corticosteroids
Pellagra (Niacin Deficiency)	Nicotinic Acid (Vitamin B3)
Hepatitis D (Coinfection with Hepatitis B)	Interferon-alpha
Gastric Varices	Endoscopic Injection Sclerotherapy
Malignant Ascites	Paracentesis (No specific drug)
Acute Liver Failure (Due to Acetaminophen Toxicity)	N-acetylcysteine
Hyperammonemia (Non-Cirrhotic)	Lactulose
Hepatorenal Syndrome (Type I)	Terlipressin + Albumin
Hepatorenal Syndrome (Type II)	Midodrine + Octreotide
Hepatic Sarcoidosis	Prednisolone
Post-Cholecystectomy Syndrome	Ursodeoxycholic Acid
Gastric Adenocarcinoma (Non-Surgical)	Chemotherapy (e.g., 5-FU + Cisplatin)
Wilson's Disease (Maintenance Therapy)	Zinc Acetate
Biliary Atresia	Kasai Procedure (No specific drug)
Drug-Induced Liver Injury (DILI)	Discontinue Offending Drug
Dubin-Johnson Syndrome	Supportive (No specific treatment)
Gilbert Syndrome	No specific treatment (Benign)
Liver Cirrhosis (Alcoholic)	Abstinence + Thiamine
Alpha-1 Antitrypsin Deficiency (Liver Disease)	Liver Transplant (No specific drug)
Sclerosing Cholangitis	Ursodeoxycholic Acid
Rectal Prolapse	Surgical Correction
Anal Fissure	Topical Nitroglycerin
Hemorrhoids (Thrombosed)	Surgical Excision
Hemorrhoids (Symptomatic, Non-thrombosed)	Fiber Supplement + Topical Cream
Lactose Intolerance	Lactase Enzyme Supplements
Abetalipoproteinemia	Vitamin E Supplementation
Gastritis (NSAID-Induced)	Proton Pump Inhibitors (e.g., Omeprazole)
Gastritis (H. pylori-Induced)	Clarithromycin + Amoxicillin + PPI
Diabetic Gastroparesis	Metoclopramide

NEPHROLOGY DISORDERS

Condition	Drug of Choice
Acute Pyelonephritis	Ciprofloxacin
Chronic Pyelonephritis	Treat underlying cause (e.g., VUR)
Nephrotic Syndrome (Minimal Change Disease)	Prednisolone

Condition	Drug of Choice
Focal Segmental Glomerulosclerosis (FSGS)	Prednisolone
Membranous Nephropathy	Prednisolone + Cyclophosphamide
IgA Nephropathy (Berger's Disease)	ACE Inhibitors
Post-Streptococcal Glomerulonephritis	Supportive Care
Rapidly Progressive Glomerulonephritis (RPGN)	High-dose Corticosteroids + Cyclophosphamide
Goodpasture's Syndrome (Anti-GBM Disease)	Plasmapheresis + Corticosteroids
Diabetic Nephropathy	ACE Inhibitors/ARBs
Hypertensive Nephropathy	ACE Inhibitors/ARBs
Lupus Nephritis (Mild)	Hydroxychloroquine
Lupus Nephritis (Severe)	Cyclophosphamide + Prednisolone
Autosomal Dominant Polycystic Kidney Disease (ADPKD)	Tolvaptan

Condition	Drug of Choice
Acute Interstitial Nephritis	Discontinue offending drug
Hyperkalemia	Calcium Gluconate (IV) + Insulin/Glucose
Hypokalemia	Potassium Chloride (Oral or IV)
Acute Kidney Injury (AKI, Prerenal)	IV Fluids
Acute Tubular Necrosis (ATN)	Supportive Care
Chronic Kidney Disease (CKD)	ACE Inhibitors/ARBs
Renal Osteodystrophy	Phosphate Binders + Vitamin D
Hyperphosphatemia in CKD	Sevelamer
Hyperparathyroidism in CKD	Cinacalcet
Hypocalcemia	Calcium Gluconate (IV)
Hypercalcemia	IV Fluids + Bisphosphonates
Renal Cell Carcinoma (Non-surgical)	Sunitinib
Nephrolithiasis (Calcium Stones)	Thiazide Diuretics
Nephrolithiasis (Uric Acid Stones)	Potassium Citrate
Nephrolithiasis (Struvite Stones)	Antibiotics (if infected)
Rhabdomyolysis (Renal Complication)	IV Fluids
Hemolytic Uremic Syndrome (HUS)	Supportive Care (Dialysis if needed)
Renal Vein Thrombosis	Anticoagulation (Heparin/Warfarin)
Hypomagnesemia	Magnesium Sulfate (IV)
Hypermagnesemia	Calcium Gluconate (IV)
Bartter Syndrome	Potassium-Sparing Diuretics (e.g., Spironolactone)
Gitelman Syndrome	Magnesium and Potassium Supplements
Syndrome of Inappropriate ADH Secretion (SIADH)	Tolvaptan
Central Diabetes Insipidus	Desmopressin (DDAVP)
Nephrogenic Diabetes Insipidus	Thiazide Diuretics

Condition	Drug of Choice
Anaphylaxis	Epinephrine (IM)
Angioedema (Hereditary)	C1 Esterase Inhibitor (IV)
Systemic Lupus Erythematosus (SLE, Mild)	Hydroxychloroquine
Systemic Lupus Erythematosus (SLE, Severe)	Prednisolone + Cyclophosphamide
Rheumatoid Arthritis	Methotrexate
Juvenile Idiopathic Arthritis	NSAIDs + Methotrexate
Sjögren's Syndrome	Pilocarpine (for dry mouth)
Antiphospholipid Syndrome (APS)	Warfarin
Ankylosing Spondylitis	NSAIDs
Psoriatic Arthritis	Methotrexate
Reactive Arthritis	NSAIDs
Giant Cell Arteritis	High-dose Prednisolone
Kawasaki Disease	IV Immunoglobulin + Aspirin
Wegener's Granulomatosis (Granulomatosis with Polyangiitis)	Cyclophosphamide + Prednisolone
Microscopic Polyangiitis	Cyclophosphamide + Prednisolone
Eosinophilic Granulomatosis with Polyangiitis (Churg-Strauss Syndrome)	Prednisolone
IgG4-Related Disease	Prednisolone
Scleroderma (Systemic Sclerosis)	Cyclophosphamide
Dermatomyositis	Prednisolone
Polymyositis	Prednisolone
Vasculitis (Small Vessel)	Cyclophosphamide
Urticaria (Chronic)	Antihistamines (H1 Blockers)
Hyper-IgE Syndrome	Prophylactic Antibiotics (e.g., TMP-SMX)
Common Variable Immunodeficiency (CVID)	IV Immunoglobulin
Severe Combined Immunodeficiency (SCID)	Bone Marrow Transplant
Wiskott-Aldrich Syndrome	Bone Marrow Transplant
DiGeorge Syndrome	Calcium Supplement + Thymus Transplant
X-Linked Agammaglobulinemia	IV Immunoglobulin
Hemophagocytic Lymphohistiocytosis (HLH)	Etoposide + Dexamethasone
Hereditary Angioedema (Acute Attack)	Icatibant (Bradykinin Receptor Antagonist)
Cryoglobulinemia (Severe)	Rituximab + Steroids
Allergic Rhinitis	Intranasal Corticosteroids

EMERGENCY AND CRITICAL CARE MEDICINE

Condition	Drug of Choice
Anaphylaxis	Epinephrine (IM)
Acute Myocardial Infarction (STEMI)	Aspirin + Thrombolytic (Alteplase)
Non-ST Elevation Myocardial Infarction (NSTEMI)	Aspirin + Enoxaparin (LMWH)
Pulmonary Embolism (Acute)	Heparin

Condition	Drug of Choice
Deep Vein Thrombosis (DVT)	Heparin
Cardiac Arrest (Ventricular Fibrillation)	Epinephrine + Amiodarone
Cardiac Arrest (Asystole/PEA)	Epinephrine (IV)
Acute Stroke (Ischemic)	Alteplase (tPA)
Acute Hypertensive Emergency	Sodium Nitroprusside
Acute Hypertensive Encephalopathy	Labetalol
Bradycardia (Symptomatic)	Atropine
Tachycardia (Supraventricular)	Adenosine
Ventricular Tachycardia (Stable)	Amiodarone
Ventricular Fibrillation	Amiodarone
Torsades de Pointes	Magnesium Sulfate
Acute Heart Failure with Pulmonary Edema	Furosemide
Cardiogenic Shock	Dobutamine
Septic Shock	Norepinephrine
Hypovolemic Shock	IV Fluids (Crystalloids)
Neurogenic Shock	IV Fluids + Vasopressors (e.g., Norepinephrine)
Acute Asthma Exacerbation	Salbutamol (Nebulized)
Status Asthmaticus	IV Magnesium Sulfate
Acute COPD Exacerbation	Prednisolone
Acute Respiratory Distress Syndrome (ARDS)	Low Tidal Volume Ventilation (Supportive Care)
Tension Pneumothorax	Immediate Needle Decompression
Acute Pulmonary Edema (Non-Cardiogenic)	IV Nitroglycerin
Hyperkalemia (Life-threatening)	Calcium Gluconate (IV)
Hypokalemia	Potassium Chloride (IV)
Diabetic Ketoacidosis (DKA)	IV Insulin + Fluids
Hyperosmolar Hyperglycemic State (HHS)	IV Fluids + Insulin
Hypoglycemia (Severe)	IV Dextrose
Acute Adrenal Crisis	Hydrocortisone (IV)
Status Epilepticus	Lorazepam (IV)
Acute Meningitis (Bacterial)	Ceftriaxone + Vancomycin
Acute Encephalitis (Herpes Simplex Virus)	Acyclovir
Heat Stroke	Rapid Cooling (Ice Packs, IV Fluids)
Hyperthermia (Malignant Hyperthermia)	Dantrolene
Hypothermia	Warm IV Fluids + External Rewarming
Acute Alcohol Intoxication	Thiamine (IV) + Dextrose
Alcohol Withdrawal (Delirium Tremens)	Benzodiazepines (e.g., Diazepam)
Acute Cyanide Poisoning	Hydroxocobalamin
Organophosphate Poisoning	Atropine + Pralidoxime
Opioid Overdose	Naloxone (IV)
Benzodiazepine Overdose	Flumazenil

Condition	Drug of Choice
Beta Blocker Overdose	Glucagon
Calcium Channel Blocker Overdose	Calcium Gluconate
Acute Digoxin Toxicity	Digoxin-Specific Antibodies (Digibind)
Acetaminophen (Paracetamol) Overdose	N-acetylcysteine
Salicylate (Aspirin) Overdose	Sodium Bicarbonate (IV)
Snake Bite (Neurotoxic)	Anti-snake Venom (ASV)
Rattlesnake Bite	CroFab (Crotalidae Polyvalent Immune Fab)

TOXICOLOGY

Condition	Drug of Choice
Paracetamol (Acetaminophen) Overdose	N-acetylcysteine (NAC)
Salicylate (Aspirin) Overdose	Sodium Bicarbonate (IV)
Organophosphate Poisoning	Atropine + Pralidoxime (2-PAM)
Methanol Poisoning	Fomepizole
Ethylene Glycol Poisoning	Fomepizole
Benzodiazepine Overdose	Flumazenil
Opioid Overdose	Naloxone (IV)
Carbon Monoxide Poisoning	100% Oxygen
Cyanide Poisoning	Hydroxocobalamin
Beta-Blocker Overdose	Glucagon
Calcium Channel Blocker Overdose	Calcium Gluconate
Digoxin Toxicity	Digoxin-Specific Antibody (Digibind)
Iron Poisoning	Deferoxamine
Lead Poisoning	Dimercaprol + EDTA
Mercury Poisoning	Dimercaprol
Arsenic Poisoning	Dimercaprol
Copper Poisoning (Wilson's Disease)	Penicillamine
Anticholinergic Toxicity (e.g., Atropine overdose)	Physostigmine
Snake Bite (Hemotoxic)	Anti-snake Venom (ASV)
Snake Bite (Neurotoxic)	Anti-snake Venom (ASV)
Scorpion Sting	Anti-scorpion Venom
Rattlesnake Bite	CroFab (Crotalidae Polyvalent Immune Fab)
Spider Bite (Black Widow)	Antivenin
Heavy Metal Poisoning (Chelation)	Dimercaprol +

Condition	Drug of Choice
Heavy Metal Poisoning (Chelation)	Dimercaprol + EDTA or Penicillamine
Lithium Toxicity	Supportive Care (Hemodialysis if severe)

Condition	Drug of Choice
Tricyclic Antidepressant (TCA) Overdose	Sodium Bicarbonate (IV)
Serotonin Syndrome	Cyproheptadine
Cocaine Overdose	Benzodiazepines
Amphetamine Overdose	Benzodiazepines
Theophylline Toxicity	Activated Charcoal + Beta Blockers
Chlorine Gas Inhalation	Supportive Care + Oxygen
Methemoglobinemia (Drug-Induced)	Methylene Blue
Phenytoin Toxicity	Supportive Care + Activated Charcoal
Warfarin Overdose	Vitamin K + Fresh Frozen Plasma (FFP)
Heparin Overdose	Protamine Sulfate
Sulfonylurea Overdose	Octreotide
Isoniazid Overdose	Pyridoxine (Vitamin B6)
Strychnine Poisoning	Diazepam
Hydrofluoric Acid Exposure	Calcium Gluconate
Anticholinergic Toxicity (e.g., Atropine Overdose)	Physostigmine
Thallium Poisoning	Prussian Blue
Nitroprusside-Induced Cyanide Toxicity	Sodium Thiosulfate
Amanita Mushroom Poisoning	Penicillin G + Silibinin
Barbiturate Overdose	Supportive Care (Activated Charcoal)

ANESTHESIA DISORDERS

Condition	Drug of Choice
Malignant Hyperthermia	Dantrolene
Postoperative Nausea and Vomiting (PONV)	Ondansetron
Local Anesthetic Systemic Toxicity (LAST)	Intralipid (Lipid Emulsion Therapy)
Postoperative Shivering	Meperidine
Anesthesia-Induced Bradycardia	Atropine
Anesthesia-Induced Hypotension	Ephedrine
Anesthesia-Induced Hypertension	Esmolol
Anesthesia-Induced Tachycardia	Beta Blockers (e.g., Esmolol)
Emergence Delirium	Dexmedetomidine
Bronchospasm during Anesthesia	Salbutamol (Inhaled)
Laryngospasm during Anesthesia	Succinylcholine
Acute Pain Management (Postoperative)	Morphine
Chronic Pain Management	Amitriptyline
Epidural Analgesia (Labor)	Bupivacaine + Fentanyl
Conscious Sedation	Midazolam + Fentanyl
Induction of Anesthesia (Rapid Sequence)	Etomidate + Succinylcholine
Induction of Anesthesia (Standard)	Propofol

Condition	Drug of Choice
Maintenance of General Anesthesia	Sevoflurane
Reversal of Neuromuscular Blockade	Neostigmine + Glycopyrrolate
Prevention of Aspiration Pneumonitis	Sodium Citrate + Metoclopramide
Management of Anaphylaxis during Surgery	Epinephrine (IM or IV)
Intracranial Hypertension during Surgery	Mannitol
Preoperative Sedation	Midazolam
Spinal Anesthesia	Bupivacaine
Epidural Anesthesia	Ropivacaine
Post-Dural Puncture Headache (PDPH)	Epidural Blood Patch

ANESTHETIC DRUG OF CHOICE IN VARIOUS CLINICAL CONDITIONS

Condition	Drug of Choice
Rapid Sequence Induction (RSI)	Etomidate + Succinylcholine
Induction of General Anesthesia	Propofol
Maintenance of General Anesthesia	Sevoflurane
Preoperative Sedation	Midazolam
Conscious Sedation (Minor Procedures)	Midazolam + Fentanyl
Monitored Anesthesia Care (MAC)	Propofol + Midazolam
Postoperative Nausea and Vomiting (PONV)	Ondansetron
Postoperative Shivering	Meperidine
Local Anesthetic for Minor Procedures	Lidocaine
Local Anesthesia (Peripheral Nerve Blocks)	Bupivacaine
Epidural Analgesia (Labor)	Bupivacaine + Fentanyl
Spinal Anesthesia	Bupivacaine
Epidural Anesthesia	Ropivacaine
General Anesthesia for Day Surgery	Propofol + Sevoflurane
General Anesthesia for Long Surgeries	Propofol + Isoflurane
Emergency Cesarean Section	Propofol + Succinylcholine
Prevention of Aspiration Pneumonitis	Sodium Citrate + Metoclopramide
Malignant Hyperthermia	Dantrolene
Prevention of Perioperative Bradycardia	Glycopyrrolate
Postoperative Pain Management	Morphine
Chronic Pain Management	Amitriptyline
Neuropathic Pain Management	Pregabalin
Reversal of Neuromuscular Blockade	Neostigmine + Glycopyrrolate
Reversal of Non-Depolarizing Neuromuscular Blockade	Sugammadex
Local Anesthetic Systemic Toxicity (LAST)	Intralipid (Lipid Emulsion Therapy)
Bronchospasm during Anesthesia	Salbutamol (Inhaled)

Condition	Drug of Choice
Laryngospasm during Anesthesia	Succinylcholine
Anesthesia in Patients with Cardiovascular Disease	Etomidate
Anesthesia in Patients with Asthma	Sevoflurane
Anesthesia in Patients with Renal Disease	Etomidate
Anesthesia in Patients with Liver Disease	Propofol
Anesthesia in Obese Patients	Propofol + Succinylcholine
Anesthesia in Patients with Increased Intracranial Pressure	Propofol
Anesthesia in Patients with Myasthenia Gravis	Avoid Succinylcholine, use Atracurium
Anesthesia in Elderly Patients	Propofol
Anesthesia in Patients with Burns	Ketamine
Pediatric Induction of Anesthesia (Inhalational)	Sevoflurane
Pediatric Induction of Anesthesia (IV)	Propofol
Maintenance of Anesthesia in Pediatric Surgery	Sevoflurane
Prevention of Post-Dural Puncture Headache (PDPH)	Epidural Blood Patch
Prevention of Emergence Delirium in Pediatric Patients	Dexmedetomidine
Regional Anesthesia in Orthopedic Surgery	Bupivacaine
Total Intravenous Anesthesia (TIVA)	Propofol
Induction for Cardiac Surgery	Etomidate + Fentanyl
Maintenance for Cardiac Surgery	Isoflurane
Sedation for Mechanically Ventilated ICU Patients	Propofol
Sedation for Endoscopy	Midazolam + Fentanyl
Awake Fiberoptic Intubation	Topical Lidocaine
Airway Management in Difficult Intubation	Succinylcholine

ACLS DRUGS OF CHOICE

Clinical Scenario	Drug of Choice
Cardiac Arrest (Ventricular Fibrillation/ Pulseless Ventricular Tachycardia)	Epinephrine (1 mg IV every 3-5 min) + Amiodarone (300 mg IV for refractory cases)
Cardiac Arrest (Asystole/ Pulseless Electrical Activity)	Epinephrine (1 mg IV every 3-5 min)
Bradycardia (Symptomatic)	Atropine (0.5 mg IV every 3-5 min, max 3 mg)
Bradycardia Unresponsive to Atropine	Dopamine or Epinephrine Infusion
Tachycardia (Stable Supraventricular Tachycardia, SVT)	Adenosine (6 mg rapid IV push, then 12 mg if required)
Tachycardia (Wide Complex, Stable Ventricular Tachycardia)	Amiodarone (150 mg IV over 10 min)
Tachycardia (Unstable Ventricular Tachycardia)	Immediate Synchronized Cardioversion
Torsades de Pointes	Magnesium Sulfate (1-2 g IV over 5-20 min)
Acute Coronary Syndrome (ACS)	Aspirin (160-325 mg) + Nitroglycerin (SL) + Morphine (IV if pain persists)

Clinical Scenario	Drug of Choice
STEMI (Reperfusion Therapy)	Alteplase (tPA) or PCI
Non-ST Elevation Myocardial Infarction (NSTEMI)	Aspirin + Enoxaparin (LMWH)
Acute Pulmonary Embolism	Heparin (IV bolus followed by infusion)
Anaphylaxis	Epinephrine (IM)
Hypovolemic Shock	IV Fluids (Crystalloids)
Septic Shock	IV Fluids + Norepinephrine (Vasopressor)
Cardiogenic Shock	Dobutamine (IV)
Hyperkalemia	Calcium Gluconate (IV) + Insulin/Glucose
Hypokalemia	Potassium Chloride (IV or Oral)
Hypocalcemia	Calcium Gluconate (IV)
Hyperglycemia (DKA/HHS)	Insulin (IV) + IV Fluids
Hypoglycemia	Dextrose (50% IV bolus)
Tension Pneumothorax	Immediate Needle Decompression
Asthma (Severe Exacerbation)	Nebulized Salbutamol + IV Magnesium Sulfate
Acute Respiratory Distress Syndrome (ARDS)	Low Tidal Volume Ventilation (Supportive)
Acute Pulmonary Edema	Furosemide (IV)
Stroke (Ischemic)	Alteplase (tPA within 3-4.5 hours)
Stroke (Hemorrhagic)	Manage BP, Surgery if indicated
Hypertensive Crisis	Sodium Nitroprusside or Labetalol
Acute Aortic Dissection	Esmolol (IV)
Organophosphate Poisoning	Atropine (IV) + Pralidoxime
Beta-Blocker Overdose	Glucagon (IV)
Calcium Channel Blocker Overdose	Calcium Gluconate (IV)
Opioid Overdose	Naloxone (IV or IM)
Benzodiazepine Overdose	Flumazenil (IV)
Seizures (Status Epilepticus)	Lorazepam (IV)
Post-Cardiac Arrest Care	Targeted Temperature Management (TTM)
Massive Pulmonary Embolism	Alteplase (tPA)
Upper Airway Obstruction (Foreign Body)	Back Blows and Chest Thrusts
Severe Allergic Reaction (Anaphylaxis)	Epinephrine (IM)
Opiate-Induced Respiratory Depression	Naloxone (IV)
Myocardial Ischemia (Unstable Angina/ NSTEMI)	Aspirin (160-325 mg) + Nitroglycerin
Acute Heart Failure	Furosemide (IV)
Post-ROSC (Return of Spontaneous Circulation) Hypotension	IV Fluids + Epinephrine or Dopamine
Post-ROSC (Hypoxia)	100% Oxygen (Target SpO2: 94-99%)
Acidosis (Metabolic)	Sodium Bicarbonate (IV)
Hypothermia (Severe)	Active Rewarming (External and Internal)
Hyperthermia (Heat Stroke)	Active Cooling (IV Fluids + Ice Packs)
Cardiac Tamponade	Pericardiocentesis

ANTICANCER DRUGS OF CHOICE

Cancer Type	Drug of Choice
Breast Cancer (Hormone-Receptor Positive)	Tamoxifen (Premenopausal), Aromatase Inhibitors (Postmenopausal)
Breast Cancer (HER2-Positive)	Trastuzumab
Breast Cancer (Triple-Negative)	Chemotherapy (e.g., Doxorubicin + Cyclophosphamide)
Colorectal Cancer	FOLFOX (5-FU + Leucovorin + Oxaliplatin)
Lung Cancer (Non-Small Cell, EGFR Mutation)	Erlotinib
Lung Cancer (Non-Small Cell, ALK Mutation)	Crizotinib
Lung Cancer (Small Cell)	Cisplatin + Etoposide
Prostate Cancer	Leuprolide (GnRH Agonist) + Anti-Androgens (e.g., Flutamide)
Ovarian Cancer	Paclitaxel + Carboplatin
Cervical Cancer	Cisplatin
Testicular Cancer	BEP Regimen (Bleomycin, Etoposide, Cisplatin)
Hodgkin's Lymphoma	ABVD Regimen (Adriamycin, Bleomycin, Vinblastine, Dacarbazine)
Non-Hodgkin's Lymphoma	R-CHOP (Rituximab, Cyclophosphamide, Doxorubicin, Vincristine, Prednisolone)
Chronic Myeloid Leukemia (CML)	Imatinib (Tyrosine Kinase Inhibitor)
Acute Myeloid Leukemia (AML)	Cytarabine + Daunorubicin
Acute Lymphoblastic Leukemia (ALL)	Vincristine + Prednisolone + Daunorubicin + Asparaginase
Chronic Lymphocytic Leukemia (CLL)	Chlorambucil or Fludarabine
Multiple Myeloma	Bortezomib + Dexamethasone
Gastric Cancer	FOLFOX or FOLFIRI Regimen (5-FU + Leucovorin + Oxaliplatin/Irinotecan)
Esophageal Cancer	Cisplatin + 5-FU
Pancreatic Cancer	Gemcitabine
Hepatocellular Carcinoma	Sorafenib
Renal Cell Carcinoma	Sunitinib
Bladder Cancer	Gemcitabine + Cisplatin
Head and Neck Cancer	Cisplatin + 5-FU
Thyroid Cancer (Papillary and Follicular)	Levothyroxine (Post-surgery suppression)
Medullary Thyroid Cancer	Vandetanib
Melanoma	Pembrolizumab
Brain Tumors (Glioblastoma Multiforme)	Temozolomide + Radiation
Osteosarcoma	Methotrexate + Doxorubicin + Cisplatin
Ewing's Sarcoma	Vincristine + Doxorubicin + Cyclophosphamide (VDC)
Rhabdomyosarcoma	VAC Regimen (Vincristine, Actinomycin D, Cyclophosphamide)
Neuroblastoma	Cyclophosphamide + Doxorubicin + Cisplatin + Vincristine
Wilms Tumor (Nephroblastoma)	Vincristine + Actinomycin D
Kaposi's Sarcoma (HIV-related)	HAART (Highly Active Antiretroviral Therapy)

Cancer Type	Drug of Choice
Choriocarcinoma (Gestational Trophoblastic Disease)	Methotrexate
Endometrial Cancer	Paclitaxel + Carboplatin
Germ Cell Tumors (Non-Seminomatous)	BEP Regimen (Bleomycin, Etoposide, Cisplatin)
Seminoma	Radiotherapy (Early) or BEP Regimen (Advanced)
Soft Tissue Sarcomas	Doxorubicin + Ifosfamide
Waldenström's Macroglobulinemia	Rituximab
Retinoblastoma	Carboplatin + Vincristine + Etoposide
Mesothelioma	Pemetrexed + Cisplatin
Anal Cancer	5-FU + Mitomycin
Mantle Cell Lymphoma	R-CHOP (Rituximab, Cyclophosphamide, Doxorubicin, Vincristine, Prednisolone)
Primary Central Nervous System Lymphoma	High-dose Methotrexate
Mycosis Fungoides (Cutaneous T-Cell Lymphoma)	Bexarotene
Burkitt's Lymphoma	R-CHOP + Methotrexate
Hairy Cell Leukemia	Cladribine

COUGH

Condition	Drug of Choice
Dry Cough	Dextromethorphan
Productive (Wet) Cough	Guaifenesin
Postnasal Drip (Allergic Cough)	Antihistamines (e.g., Cetirizine)
Cough due to ACE Inhibitors	Discontinue ACE Inhibitor (Switch to ARB)
Cough due to COPD	Tiotropium (Long-acting anticholinergic)
Cough due to Asthma	Salbutamol (Inhaled)
Cough due to GERD	Proton Pump Inhibitors (e.g., Omeprazole)
Pertussis (Whooping Cough)	Azithromycin
Tuberculous Cough	Anti-TB Therapy (Rifampicin, Isoniazid, etc.)
Psychogenic Cough	Reassurance (No specific drug)

VOMITING

Condition	Drug of Choice
Postoperative Nausea and Vomiting (PONV)	Ondansetron
Motion Sickness	Scopolamine (Transdermal)
Morning Sickness (Pregnancy)	Pyridoxine (Vitamin B6) + Doxylamine
Hyperemesis Gravidarum	Ondansetron + IV Fluids
Chemotherapy-Induced Nausea and Vomiting (CINV)	Ondansetron + Dexamethasone

Condition	Drug of Choice
Radiation-Induced Nausea and Vomiting	Granisetron
Cyclic Vomiting Syndrome	Amitriptyline
Gastroparesis	Metoclopramide
Nausea and Vomiting due to Migraine	Metoclopramide
Vertigo-Induced Vomiting	Meclizine
Vomiting due to Gastroenteritis	Ondansetron (Oral or IV)

DIARRHEA

Condition	Drug of Choice
Acute Watery Diarrhea (Adults)	Oral Rehydration Solution (ORS)
Acute Watery Diarrhea (Children)	Oral Rehydration Solution (ORS)
Traveler's Diarrhea	Ciprofloxacin (If bacterial)
Antibiotic-Associated Diarrhea	Metronidazole (For mild/moderate C. difficile)
Severe C. difficile Infection	Oral Vancomycin
Irritable Bowel Syndrome (Diarrhea-Predominant)	Loperamide
Infectious Diarrhea (Bacterial - e.g., Shigella)	Ciprofloxacin
Infectious Diarrhea (Giardia)	Metronidazole
Cholera	Doxycycline
Traveler's Diarrhea (Pregnancy)	Azithromycin
Lactose Intolerance (Diarrhea Triggered by Dairy)	Lactase Enzyme Supplements
Diarrhea in AIDS (Cryptosporidium)	Nitazoxanide
Secretory Diarrhea	Octreotide
Inflammatory Bowel Disease (Diarrhea)	Mesalamine

OTHER CLINICAL CONDITIONS

Condition	Drug of Choice
Hypertension (First-Line)	ACE Inhibitors/ARBs
Hypertension in Pregnancy	Methyldopa
Hypertensive Emergency	Sodium Nitroprusside
Diabetes Mellitus Type 1	Insulin
Diabetes Mellitus Type 2	Metformin
Hypothyroidism	Levothyroxine
Hyperthyroidism (Graves' Disease)	Methimazole
Hyperthyroidism in Pregnancy	Propylthiouracil (PTU)
Bacterial Meningitis (Adults)	Ceftriaxone + Vancomycin
Bacterial Meningitis (Neonates)	Ampicillin + Gentamicin
Acute Otitis Media	Amoxicillin
Acute Sinusitis	Amoxicillin-Clavulanate

Condition	Drug of Choice
Conjunctivitis (Bacterial)	Ciprofloxacin Eye Drops
Allergic Rhinitis	Intranasal Corticosteroids
Acute Pharyngitis (Streptococcal)	Penicillin V
Cellulitis (Non-MRSA)	Cephalexin
Cellulitis (MRSA Suspected)	Clindamycin
Osteomyelitis (Children)	Ceftriaxone
Osteomyelitis (Adults)	Vancomycin
Urinary Tract Infection (Uncomplicated)	Nitrofurantoin
Pyelonephritis	Ciprofloxacin
Gout (Acute)	Indomethacin
Gout (Chronic Management)	Allopurinol
Deep Vein Thrombosis (Prophylaxis)	Enoxaparin (LMWH)
Deep Vein Thrombosis (Treatment)	Heparin
Pulmonary Embolism	Heparin
Migraine (Acute Attack)	Sumatriptan
Migraine Prophylaxis	Propranolol
Panic Disorder	SSRIs (e.g., Sertraline)
Depression	SSRIs (e.g., Fluoxetine)
Generalized Anxiety Disorder	SSRIs (e.g., Escitalopram)

INFUSION

--- MEDICAL EDUCATION ZONE ---