

# Autonomic Drugs

## Parasympathetic:

Acetylcholinesterase inhibitors

Cholinomimetics

Muscarinic antagonists

## Sympathetic:

Alpha drugs

Beta blockers

Indirect sympathomimetics

Sympathomimetics

# Cardiovascular & Renal

## Heart Failure Drugs:

ACE inhibitors, ARBs, Aliskiren

Digoxin

Sacubitril-Valsartan, Milrinone, Nesiritide, Ivabradine

## Diuretics:

Acetazolamide, mannitol

K<sup>+</sup> sparing diuretics

Thiazides

Loop Diuretics

## Antihypertensives:

Calcium channel blockers

Primary hypertension & hypertensive emergency

**Antiarrhythmics:**

Class I A-C Antiarrhythmics

Class V Antiarrhythmics

Class II Antiarrhythmics

Class III Antiarrhythmics

Class IV Antiarrhythmics

# Blood & Inflammation

**Anticoagulants & Thrombolytics:**

Antiplatelet agents

Heparin, LMWH, fondaparinux, direct thrombin inhibitors, Xa inhibitors

Thrombolytics

Warfarin

**Dyslipidemia Drugs:**

Cholestyramine, ezetimibe

Fibrates, niacin

Statins

**Anti-Inflammatory:**

Gout drugs

NSAIDs

Immunosuppressants

TNF Inhibitors

# Smooth Muscle

## Vasoactive:

Prostaglandins, prostacyclin, bosentan, PDE5 inhibitors

Triptans & migraine

## Allergy & Pulmonary:

Antihistamines

Asthma therapy

# GI & Endocrine

## Thyroid:

Bisphosphonates, raloxifene, denosumab, calcitonin

Teriparatide, vitamin D, cinacalcet, sevelamer

Propylthiouracil, methimazole, levothyroxine

Glucocorticoids

## GI:

Antidiarrheals

H2 receptor blockers, PPIs

Laxatives

## Diabetes GI:

Insulin, sulfonylureas, meglitinides, GLP-1 agonists, DPP-4 inhibitors

Metformin, thiazolidinediones, pramlintide, SGLT2 inhibitors

## Hypothalamic & Pituitary:

ADH, DDAVP, ADH receptor antagonists

Growth hormone, mecasermin, octreotide, pegvisomant

### **Sex Hormones:**

SERMs & Aromatase Inhibitors

LHRH Agonists/GnRH Analogs

Non-Steroidal Antiandrogens (NSAAs)

# Neuro/Psych

### **Anesthetics & Analgesics:**

Inhaled anesthetics, dantrolene

IV Anesthetics

Opioids, Naloxone, Naltrexone

### **Antidepressants & Anxiolytics:**

Bupropion, mirtazapine, trazodone

MAO inhibitors

SSRIs, SNRIs, cyproheptadine

Tricyclic antidepressants

Buspirone

### **Mood Stabilizers & Antiepileptic Drugs:**

Broad Spectrum Anti-Epileptics

Carbamazepine, oxcarbazepine, phenytoin, tiagabine, vigabatrin

Ethosuximide

Gabapentin, pregabalin

Lithium

### **Psychostimulants: Narcolepsy & ADHD:**

Amphetamine, Dexamphetamine, Lisdexamfetamine & Methylphenidate

Narcolepsy Drugs

### **Sedative-Hypnotics:**

Barbiturates

Benzodiazepines, flumazenil

Nonbenzodiazepine hypnotics, melatonin, ramelteon

### **Smoking Cessation Aids**

Varenicline

# Antimicrobials

### **Cell Wall and Membrane Active Antibiotics:**

Ampicillin, Amoxicillin, Piperacillin, Ticarcillin

Cephalosporins

Daptomycin

Monobactams & Carbapenems

Nafcillin, Oxacillin, Methicillin & Dicloxacillin

Penicillin

Vancomycin

### **Inhibitors of Bacterial Protein Synthesis:**

Aminoglycosides

Chloramphenicol

Clindamycin

Linezolid

Macrolides

Tetracyclines

**Antimycobacterial:**

Leprosy drugs

Tuberculosis Drugs

**Other Antibiotics:**

Fluoroquinolones

Metronidazole

Trimethoprim/Sulfamethoxazole

**Antifungals:**

Amphotericin, flucytosine

Azoles

Griseofulvin, Terbinafine, Echinocandins

**Antivirals: HIV**

Maraviroc, fusion inhibitors, integrase inhibitors

NNRTIs

NRTIs

Protease inhibitors

**Antivirals: Other**

Acyclovir, valacyclovir, famciclovir

Ganciclovir, valganciclovir, foscarnet, cidofovir

Hepatitis C: Direct-acting antivirals (DAAs)

# Antineoplastics

### **Antimetabolites:**

Azathioprine, 6-mercaptopurine, mycophenolate mofetil

Cytotoxic Nucleoside Analogs

Methotrexate, leucovorin, 5-fluorouracil, hydroxyurea

### **DNA & Cellular Division:**

Alkylating Agents

Cytotoxic Antibiotics

Mitotic Inhibitors

Platins

Topoisomerase Inhibitors

### **Kinase Inhibitors & Monoclonal Antibodies:**

Kinase Inhibitors

Monoclonal Antibody Therapy

### **Immunology:**

Interferons

# Pharmacology Foundations

### **Pharmacokinetic Basics:**

Membranes: Partition Coefficient, Passive Diffusion & Active Transport

Plasma Concentration & Therapeutic Range

### **Absorption:**

Introduction to Drug Absorption via Parenteral Routes

Oral Drug Absorption & Bioavailability (F)

### **Distribution:**

Drug Distribution & Protein Binding

Volume of Distribution

**Metabolism:**

Introduction to CYP450 Enzymes

P-Glycoprotein & Enterohepatic Recycling

**Elimination:**

Clearance & Area Under the Curve

Elimination-Rate Constant, Half-Life & Steady State

**Pharmacodynamic Basics:**

Agonists, Antagonists & Allosteric Modulators

**Drug-Drug Interactions:**

Introduction to Pharmacodynamic & Pharmacokinetic Drug Interactions