

PHARMACOLOGY

NURSING STUDY NOTES

Pharmacology nursing bundle



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STUDY ANYWHERE

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PREFIXES & SUFFIXES



IMMUNE MEDS

DRUG TYPE	PREFIX/ SUFFIX	EXAMPLE
Tetracyclines	–CYCLINE	Doxycycline
Aminoglycosides + Macrolides	–MYCIN	Gentamycin, Clindamycin
Cephalosporins	CEF– or CEPH–	Cefazolin, Cephalexin
Penicillins	–CILLIN	Amoxicillin
Fluoroquinolones	–FLOXACIN	Ciprofloxacin
Sulfonamides	SULF–	Sulfasalazine
Antifungals	–AZOLE	Fluconazole
Antiviral/ Antiflu	–VIR	Oseltamivir
Antiviral/ Antiherpes	–CLOVIR	Acyclovir
Monoclonal Antibodies	–MAB	Rituximab
NRTIs (HIV drug)	–VUDINE	Zidovudine
Protease Inhibitors (HIV drug)	–NAVIR	Indinavir



RESPIRATORY MEDS

DRUG TYPE	PREFIX/ SUFFIX	EXAMPLE
Beta-2 Agonists	–TEROL	Albuterol
Xanthine Derivatives	–PHYLLINE	Aminophylline
Anticholinergics	–TROPIMUM	Ipratropium
Leukotriene Modifiers	–LUKAST	Montelukast

GASTROINTESTINAL MEDS



DRUG TYPE	PREFIX/ SUFFIX	EXAMPLE
H2 Blockers	–TIDINE	Famotidine
Proton Pump Inhibitors	–PRAZOLE	Pantoprazole
Antiemetics	–SETRON, –AZINE	Ondansetron, Promethazine



CARDIAC MEDS

DRUG TYPE	PREFIX/ SUFFIX	EXAMPLE
ACE Inhibitors	–PRIL	Lisinopril
Calcium Channel Blockers	–DIPINE OR –AMIL	Amlodipine, Verapamil
Angiotensin II Receptor Blocker	–SARTAN	Losartan
Beta Blockers	–LOLOL	Metoprolol
HMG-CoA Reductase Inhibitor	–STATIN	Simvastatin
Alpha-1 Blockers	–OSIN	Prazosin
Thiazide Diuretics	–THIAZIDE	Hydrochlorothiazide
Loop Diuretics	–SEMIDE OR –IDE	Furosemide, Bumetanide
Potassium-Sparing Diuretics	–ACONE	Spironolactone
Cardiac Glycosides	–OXIN	Digoxin
Factor Xa Inhibitors	–XABAN	Apixaban
Antithrombotics	–PARIN	Heparin, Enoxaparin



NEURO/ PSYCH MEDS

DRUG TYPE	PREFIX/ SUFFIX	EXAMPLE
Atypical Antidepressants	–ZODONE	Trazodone
Tricyclic Antidepressants	–PRAMINE, –TRIPTYLINE	Clomipramine, Amitriptyline
Atypical Antipsychotics	–RIDONE	Risperidone
Benzodiazepines	–PAM & –LAM	Clonazepam, Alprazolam
Selective Serotonin Reuptake Inhibitors	–XETINE, –PRAM	Fluoxetine, Citalopram
Serotonin-Norepinephrine Reuptake Inhibitors	–FAXINE, –NACIPRAN	Venlafaxine, Milnacipran
Barbiturates	–BARBITAL	Phenobarbital
Antimigraine	–TRIPTAN	Almotriptan



PAIN & ANESTHESIA MEDS

DRUG TYPE	PREFIX/ SUFFIX	EXAMPLE
NSAIDs	–PROFEN	Ibuprofen
Opioids	–DONE & –ONE	Oxycodone, Hydromorphone
Local Anesthetics	–CAINE	Lidocaine
Inhaled Anesthetics	–ANE	Halothane
Neuromuscular Blockers	–URONIUM, –CURIUM	Vecuronium, Cisatracurium

OTHER COMMON MEDS



DRUG TYPE	PREFIX/ SUFFIX	EXAMPLE
Corticosteroids	–SONE, –LONE, –IDE	Prednisone, Budesonide
Antihistamines	–INE	Loratidine, Cetirizine
Bisphosphonates	–DRONATE	Alendronate
Antidiabetics	–GLIPTIN & –IDE	Sitagliptin, Glipizide
Phosphodiesterase Inhibitors	–FIL	Sildenafil

THERAPEUTIC LEVELS & ANTIDOTES

COMMON THERAPEUTIC LEVELS

ACETAMINOPHEN	10–20 MCG/ML	GENTAMICIN	5–10 MCG/ML
DIGOXIN	0.5–2.0 MEQ/L	TOBRAMYCIN	5–10 MCG/ML
LITHIUM	0.6–1.2 MEQ/L	CARBAMAZEPINE	5–12 MCG/ML
PHENYTOIN	10–20 MCG/ML	VANCOMYCIN	TROUGH 10–20 MCG/ML
THEOPHYLLINE	10–20 MCG/ML	PHENOBARBITAL	10–40 MCG/ML
VALPROIC ACID	50–100 MCG/ML	PROCAINAMIDE	4–10 MCG/ML
SALICYLATES	100–300 MCG/ML	AMITRIPTYLINE	120–150 NG/ML
MAG SULFATE	4–7 MG/DL	AMIODARONE	0.5–2.5 MCG/ML

ANTIDOTES



DRUG	ANTIDOTE	DRUG	ANTIDOTE
ACETAMINOPHEN	N-ACETYLCYSTEINE	INSULIN	GLUCOSE
ANTICHOLINERGICS	PHYSOSTIGMINE	IRON	DEFEROXAMINE
ASPIRIN	SODIUM BICARBONATE	ISONIAZID	PYRIDOXINE
BENZODIAZEPINES	FLUMAZENIL	LEAD	DEFEROXAMINE
BETA BLOCKERS	GLUCAGON	MAG SULFATE	CALCIUM GLUCONATE
CHOLINERGICS	ATROPINE	METHANOL	ETHANOL
CYANIDE	HYDROXOCOBALAMINE	METHOTREXATE	LEUCOVORIN
DIGOXIN	DIGIBIND OR DIGIFAB	NARCOTICS	NALOXONE (NARCAN)
DOPAMINE	PHENTOLAMINE	TRICYCLICS	SODIUM BICARBONATE
HEPARIN	PROTAMINE SULFATE	WARFARIN	VITAMIN K

EMERGENCY MEDS

REMEMBER THESE DRUGS TO **LEAN** ON

LIDOCAINE

ACTION

- ▶ Temporary numbing/ pain relief (SQ or topical)
- ▶ Suppresses ventricular cells when given IV

USE FOR:

- ▶ Local anesthetic
- ▶ Ventricular arrhythmias



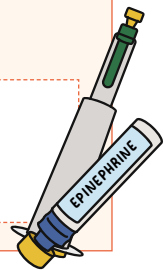
EPINEPHRINE

ACTION

- ▶ Stimulates alpha & beta adrenergic receptors (blood pressure regulation)
- ▶ Relaxes smooth muscle in heart & lungs

USE FOR:

- ▶ Anaphylaxis
- ▶ Acute asthma attack
- ▶ Cardiac arrest



ATROPINE

ACTION

- ▶ Increases HR by blocking vagal stimulation
- ▶ Blocks acetylcholine (released during "rest & digest" response)

USE FOR:

- ▶ Symptomatic bradycardia
- ▶ Reverse anticholinergics



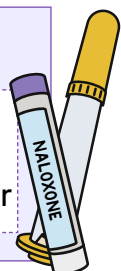
NARCAN

ACTION

- ▶ Competes for same receptor sites as opioids, reversing their effects

USE FOR:

- ▶ Opioid overdose
- ▶ Neonates affected by narcotics given during labor



OTHER EMERGENCY DRUGS

AMIODARONE	ADENOSINE	CALCIUM GLUCONATE	SODIUM BICARBONATE
Blocks potassium channels in cardiac cells, delaying repolarization	Activates adenosine receptors in AV node, causing brief asystole so SA node can regain control	Rapidly restores calcium ions in the body (helps regulate contractility & electrical signals in heart)	Neutralizes excess acid in the body to restore normal blood pH levels
USES	USES	USES	USES
Treat arrhythmias such as: ▶ Ventricular fibrillation ▶ Ventricular tachycardia ▶ Atrial fibrillation/ flutter	▶ Supraventricular tachycardia (SVT) ▶ Diagnostically during stress test	▶ Hypocalcemia ▶ Hyperkalemia ▶ Hypermagnesemia	▶ Severe metabolic acidosis ▶ Cardiac arrest (acidosis from prolonged CPR) ▶ Certain drug overdoses
		ALL CAN LEAD TO CARDIAC ARREST!	