

EMSP 2348 PHARMACOLOGY EXAM II REVIEW

Medication names – chemical, trade etc...

Drug administration routes – enteral and parenteral

Pharmacokinetics

Pharmacodynamics

Cross tolerance

Potentiation

Membrane transport mechanisms – osmosis, diffusion, active transport and facilitated transport.

Drug calculations – there are 3 drug calculations

IV problems – what do you do for infiltration, clot obstruction?

Intra-osseous route – when would you use it?

Intra dermal injection – needle angle and site

SQ injection – how much?

IM injection – angle and sites (know the names of the muscles)

Percutaneous medication delivery

Ocular medication delivery – how?

Aural medication delivery – how?

Parenteral delivery – benefits.

CNS medications:

- Methylphenidate what is it used for and how does it work?
- Treatment of grand mal seizures
- Morphine Sulfate – actions, treatment of OD, side effects.
- Extra Pyramidal Symptoms - signs and symptoms and treatment.

- Antidepressants whose side effects cause seizures.
- MAOI's action and food to avoid
- TCA overdose – the drug and its mechanism of action.
- Xanax, what type of drug is it and know the antagonist.

Autonomic Nervous System:

- Fully understand the diagram on page 32 of your notes.
- Main actions of alpha, beta 1, beta 2 and nicotinic receptors. Know both stimulation and inhibition.
- Epinephrine – effects
- Atropine - effects
- All ANS terminology, example - cholinergic, adrenergic, sympathomimetic, sympatholytic, parasympathomimetic, parasympatholytic
- Define:
 - Action potential
 - Propagate
 - Depolarization
 - Repolarization
 - Synthesis
 - Transmission
 - Endogenous
 - Pre-synaptic
 - Post-synaptic
 - Synapse
 - Axon
 - Dendrite
- Neurotransmitters
 - Names
 - Sites of action
 - Effects
 - associated division of the ANS.
- Ions involved in action potentials.

- Organophosphate poisoning – SLUDGE what will be effect on the heart rate?
- Treatment of Organophosphate poisoning – name the drug.
- Components of a nerve cell.