

2348 EXAM III Review

Autonomic Nervous System:

- Alpha 1 – stimulation and blockade
- Alpha 2 – ditto
- Beta 1 – ditto
- Beta 2 – ditto
- Pre and post ganglionic neurotransmitters.
- Adrenergic/sympathetic/sympatholytic
- Cholinergic/parasympathetic/parasympatholytic

Cardiology

- Inotrope
- Dromotrope
- Chronotrope
- The effect of Nitroglycerine on pre load and stroke volume.
- Fully understand fast and slow channel depolarization.
- Pacemaker sites and their inherent firing rates.
- Primary ions involved in action potential synthesis.
- The effect of calcium channel blockers on the heart.
- The action of Aspirin on platelets.
- The mechanism by which thrombolytics act.
- The effect of Lidocaine on ventricular repolarization, potassium and sodium channels, the QRS complex and automaticity.
- Anticoagulants that attenuate the effects of vitamin K.
- Treatment of a heparin overdose.
- Pre-hospital first line treatment of HTN.
- Understand the role of HDL and LDL in coronary artery disease.
- Mechanism and effects of furosemide administration.
- Factors affecting BP

Respiratory

Treatment regimes for asthma – be able to prioritize the drugs, first-line, second-line etc.
Rate the following drugs in terms of beta 2 agonism:

- Racemic epinephrine
- Cromolyn sodium
- Aminophylline
- Terbutaline

Endocrine

- Effect of ADH hyper secretion
- Use of ADH analogues.
- Type II diabetes medications.
- Effects of Glucagon - understand glycogenolysis and gluconeogenesis.
- Effects of Thyroid hormone imbalances.
- Indications for D50 and glucagon

Miscellaneous

Pharmacokinetics/dynamics – terminology used in these processes.

EPS

PUD - treatment

CHF and pulmonary edema. Know presentation and treatment

Treatment of nausea and vomiting in a chemotherapy patient.

EPS – signs, symptoms and treatment.

There are 54 multiple choice questions.

There will also be 21 math problems - conversions and calculations.

There are 5 short answer essays worth 12 points.

There is a bonus question worth 6 points.