Pharmacology 1 and Prescription Knowledge

Cardiovascular system drugs

Refer lecturer for course updated notes.

Students are oblidged to follow the courses for evaluation process and presented notes are preliminary drafts for the whole evaluation process.

- Antiarrhythmic drugs
- Atrial fibrillation
- Atrial flutter
- Paroxysmal supraventricular tachycardia
- Ventricular tachycardia
- Bradyarrhythmias
- Cardiac arrest

- Antihypertensive drugs Management of hypertension
- Drug treatment of hypertension
- Hypertensive emergencies
- Hypertension in pregnancy

- Cardiotonic drugs
- Mechanism of action
- Chemical structure of cardiac glycosides
- Indications for use
- The principle of dosage
- Symptoms and treatment of glycosides overdose
- Non-Glycoside Cardiotonics

- Cardenolides
- Bufadienolides
- Isolation, Chemical Synthesis
- Pharmacology and Clinical Therapy
- Mode of Action
- Clinically Important Cardiac Glycosides
- Glycosides with Long Duration of Action
- Glycosides with Medium Duration of Action
- Glycosides with Short Duration of Action

- Nonglycosidic Inotropic Agents
- Sympathomimetics
- Phosphodiesterase Inhibitors
- Agents with Direct Stimulation of Adenylate Cyclase
- Agents Acting on the Calcium Channels

- Diuretics
  - Thiazides

- Vasodilators
  - Hydralazine
  - Minoxidil
  - Sodium nitroprusside
  - Diazoxide

- Calcium Channel Blockers
  - Verapamil
  - Nifedipine
  - Nicardipine
  - Diltiazem

- Angiotensin Converting Enzyme Inhibitors
  - Captopril
  - Enalapril
  - Lisinopril
  - Ramipril
  - Fosinopril

- Drugs used to treat cardiovascular disease in horses
- Drugs used to treat cardiovascular disease in cats and dogs
- Drugs used to treat cardiovascular disease in ruminants