Drugs in Cardiovascular Diseases

Duration: 3 weeks (15 days)

Concepts	Objectives	Activity	Time	Department	Comments
3/SBM-3/1 **Atherosclerosis** • different patterns of atherosclerosis • the clinical significance of atherosclerosis • the epidemiology and risk factors of atherosclerosis • the pathogenesis of atherosclerosis • the macroscopic and microscopic appearances of the atheromatous plaques and fatty streaks • Drugs	Pathology: recall , objectives given in FCP List the classes of lipid regulating drugs 1. Describe the mechanism of action, pharmacokinetics and adverse effects of lipid regulating drugs 2. Explain the principles involved in the selection of lipid regulating drugs in clinical practice	Lecture	1 Hr	Pharmocology (1hr)	Pathology objectives are covered in FCP - to recall Correlation between clinical symptoms and pathology in organ system dysfunction E.g. brain, kidney heart, lower limbs
3/SBM-3/2 **Hypertension** • Drugs	1. list the classes of drugs used in the treatment of hypertension 2. describe the mechanism of action, pharmacokinetics, adverse effects and drug interactions of antihypertensive drugs 3. Explain the principles involved in the selection of antihypertensive drugs in clinical practice	Lecture	2 hrs	Pharmacology(2hr)	
3/SBM-3/3 **Ischaemic heart disease** Drugs used in IHD	1. List the classes of antianginal drugs 2. Describe the mechanism of action, pharmacokinetics, adverse effects and drug interactions of antianginal drugs 3. List the classes of antiplatelet drugs 4. Describe the mechanism of action, pharmacokinetics and adverse effects of antiplatelet drugs 5. List the oral and parenteral anticoagulants 6. Compare and contrast unfractionated heparin and LMWHs 7. Describe the mechanism of action, pharmacokinetics, adverse effects and drug interactions of oral and parenteral anticoagulants 8. Explain the basis of monitoring anticoagulant therapy 9. Describe the mechanism of action, pharmacokinetics and adverse effects of thrombolytic drugs	Lecture	2hrs	Pharmacology (2hrs)	
3/SBM-3/4 Cardiac arrhythmias	1. Out line the pathogenesis of cardiac arrhythmias 2. Classify the antiarrhythmic drugs 3. Describe the mechanism of action, pharmacokinetics and	Lecture	1h	Pharmacology	

	adverse effects of commonly used antiarrhythmic drugs				
3/SBM-3/5 Heart Failure (Clinicopathological correlation)	1. Recall general pathology processes oedema, congestion , hypertrophy and infarction. 2. describe the chest X ray manifestations of heart failure. 3. List the drugs used in the treatment of heart failure 4. Describe the mechanism of action, pharmacokinetics and adverse effects of drugs used in the treatment of heart failure 1 Define heart failure 2 state the clinical features of heart failure 3 list the types of heart failure 4 state the causes of heart failure 5 describe the investigation of heart failure 6 outline the management and prevention of heart failure	Staff seminar	2hrs(L) SGLA	Medicine(1hrs) Radiology (1/2hr) Pharmacology(1/2 hr) Discussion (1/2hrs) Pathology	? Medicine objectives 6 & 7 shifted to 4th year