

Course Title	Cardiology, Cardiothoracic and Vascular Surgery						
Course Code	MED-501						
Course Type	Required						
Level	Undergraduate						
Year / Semester	Year 5/ Semester 9 (Fall)						
Teacher's Name	Course Lead: Dr Constantinos Kyriakou						
ECTS	6	Lectures / week	4	Laboratories / week	0	Clinical Practice	36
Course Purpose and Objectives	<p>The main objectives of the last two years of the six year medical course are to provide students with extensive experience in the clinical environment, mainly in hospitals but also in the community, so that they can utilise their learning over the previous 4 years to practise their clinical, communication, diagnostic and reasoning skills on real patients, and to learn about the management of patients, from a medical, therapeutic, surgical, psychosocial and caring perspective.</p> <p>In this course, students will spend four weeks working primarily with patients with heart conditions. They will develop an understanding of the presentation, signs and symptoms, physical examination findings, investigations, diagnosis, treatment (medical and/or surgical as appropriate) and management plan for common cardiovascular diseases.</p> <p>The students will learn how to take detailed histories from, carry out systematic clinical examination of, and interpret laboratory and imaging data on patients with disorders of the cardiovascular system. They will also spend time in theatre observing cardiothoracic surgery.</p>						
Learning Outcomes	<p>After the completion of the course the students should be able to:</p> <ol style="list-style-type: none"> 1. Take a history from a patient, or relative of a patient, presenting with a cardiovascular condition, in a sensitive and caring manner 2. Carry out a physical examination of patients so presenting 3. Come up with a differential diagnosis for the presenting complaint 4. Identify appropriate investigations, including blood and urine tests and imaging, to assist in the diagnosis of the presenting complaint and to interpret the results from such tests 5. Prepare a treatment management plan for the patient to present to the responsible clinician to include medical, pharmacological, surgical options as appropriate 6. Observe, and where appropriate carry out or assist with, the following procedures: ECG, cardiac stress testing, catheterization, angiography, echocardiographs, MRI, CT & PET scans, angioplasty, coronary artery bypass, stent insertion, pacemaker insertion and other surgical procedures, planned and opportunistic. 						

Prerequisites	None	Required	None
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Course Content	<ul style="list-style-type: none"> • Hypertension • Angina • Acute coronary syndrome/ Myocardial infarction • Arrhythmias and conduction defects (atrial fibrillation/flutter, complete heart block, ventricular tachycardia) • Cardiac Failure • Rheumatic fever and rheumatic heart disease • Cardiac valve defects • Infective endocarditis • Pericardial disease • Myocarditis • Cardiomyopathy • Atrial and ventricular septal defects • Patent ductus arteriosus • Fallot’s tetralogy • Coarctation of the aorta • Acute circulatory failure / shock • Cardiorespiratory arrest • Acute & chronic limb ischaemia • Limb ulceration and gangrene • Arterial aneurysms • Vascular disease in other sites (renal, mesenteric, carotid) • Varicose Veins
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Teaching Methodology	The course is delivered by clinical placements, lectures, tutorials, case studies and group discussions.
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Bibliography	Required Textbooks/Reading:				
	Authors	Title	Publisher	Year	ISBN
	Grech, Ever D.	ABC of interventional cardiology	Wiley-Blackwell	2011	9781405170673
Recommended Textbooks/Reading:					
	Authors	Title	Publisher	Year	ISBN

	Levick, J. R.	An introduction to cardiovascular physiology	Hodder Arnold	2010	9780340942048
Assessment	Final year exam and final year OSCE.				
Language	English				