

Course title	Clinical Specialties: Nephrology, Urology			
Course code	GEMD-401			
Course type	Required			
Level	Undergraduate			
Year / Semester	Year 4 / Semester 7/8 (rotation)			
Course Lead	Professor Joseph Joseph Chair, Clinical Education			
ECTS	60	Teaching Periods per Week		
		Large Group Learning	Small Group Learning	Clinical Practice
		3	1	36
Course purpose and objectives	<p>The main objectives of the last two years of the Medicine programme 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 three years to practice 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 five weeks working primarily with patients with renal and urological disorders.</p> <p>They will develop an understanding of the presentation, signs and symptoms, physical examination findings, investigations, diagnosis, treatment (medical and/or surgical, including transplant surgery, as appropriate) and management plan for common renal and urological disorders.</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 kidneys and urological system. The students will gain a basic understanding of the application and type of information to be obtained from different methods for investigating kidney and urological disorders. They will also spend time in theatre observing renal, urological and transplant surgery.</p>			
Learning outcomes	<p>At the end of the course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Take a focused history from a patient, or relative of a patient, presenting with a renal or urological disorder, in a sensitive and caring manner 2. Carry out a sensitive physical examination as part of investigation of the presenting complaint 3. Discuss a differential diagnosis for the presenting complaint 4. Apply their knowledge of basic and clinical science to identify and explain appropriate investigations, including blood and urine tests, imaging, fine 			

	<p>needle aspiration, and biopsy to assist in the diagnosis of the presenting complaint and to interpret the results from such tests</p> <p>5. Prepare and explain a treatment management plan for the patient to present to the responsible clinician to include medical, pharmacological, surgical options as appropriate</p> <p>6. Observe, and where appropriate, carry out or assist with, medical and surgical procedures relating to patients with renal or urological conditions, planned and opportunistic</p> <p>7. Prescribe medications to treat patients with kidney and urinary tract diseases/disorders and make appropriate therapeutic/management decisions.</p>					
Prerequisites	None	Required	None			
Course content	<p>Common presentations affecting the renal and urogenital systems including:</p> <ul style="list-style-type: none"> • renal failure and nephropathy • urinary calculi • fluid and electrolyte imbalance • infections • renal, bladder and prostatic cancer • benign prostatic and urinary tract disorders 					
Teaching methodology	The course is delivered by clinical placements, lectures, tutorials, case studies and group discussions.					
Bibliography	Required textbooks/reading					
	Authors	Title	Edition	Publisher	Year	ISBN
	Vincent Lee, Amanda Mather, Stephen H. Hughes	The Renal System: Systems of the Body Series	3rd	Elsevier	2022	9780702082924
	Joint Formulary Committee	https://bestpractice.bmj.com/drugs	Last one	BMJ Group and Pharmaceutical Press	Current year	Joint Formulary Committee
	National Institute for Health and Clinical Excellence	https://www.nice.org.uk/guidance	Last one		Current year	National Institute for Health and Clinical Excellence
	Recommended textbooks/reading					
Authors	Title	Edition	Publisher	Year	ISBN	
Alan S. L. Yu, Glenn M. Chertow,	Brenner & Rector's kidney	11 th	Elsevier	2019	9780323532655	

	Valerie Luyckx, Philip A. Marsden, Karl Skorecki, Maarten W. Taal					
	<p>For more information on accessing the British National Formulary (BNF) please see the library guide Health Research Basics</p> <p>Additional information can also be found in the library guides: Clinical Placement Support Resources & Health Library Student Well-being Resources</p>					
Assessment	End of year exam and end of year OSCE. The written assessment will be Single Best Answer MCQs and Short Answer Questions. Workplace based assessments will take place during the attachment.					
Language	English					