

Excretion & Reproduction Module - Year 3 Semester 2

Duration: 5 Weeks (25 days)

Concepts	Objectives	Time	T/L Activity	Department
2006-3/SBM-5/01				
Kidneys and the urinary tract a. Auto regulation of renal blood flow b. The basic functional unit of the kidney (nephron) - structural and functional aspects c. Role of the kidney in regulation of ECF volume & tonicity d. Role of the kidney in the maintenance of blood pH	Recall		Recall	
2006-3/SBM-5/02				
Mechanisms of dysfunction of the kidneys and the urinary tract a. Renal excretory function (i). with reduced nephron mass - GFR, Tubular functions, Constituents of urine (ii). in disturbed functions of other systems (Circulation, respiration ect.) (iii). in disturbed renal blood flow and autoregulation of blood flow (iv). in anomalous urine flow & obstruction to the urine flow	Recall		Recall	
2006-3/SBM-5/03				
Introduction to GU pathology	1. apply principles of general pathology to the GU (acute and chronic inflammation, metaplasia, dysplasia, neoplasia)		Recall	Pathology
2006-3/SBM-5/04				
Disorders of the kidneys, ureters, bladder, the urethra & external genitalia and management				
a. Infections in the upper and the lower urinary tract	1. describe the routes of upper and lower urinary tract infections	1h	Student Presentation	Pathology

	2. describe the pathological features and complications of acute and chronic pyelonephritis and renal TB 3. describe the clinical and pathological features of bladder infections and their complications			
b. Glomerularnephritis, Glomerular lesions, fibrosis				
c. Tubular and interstitial	1. list the causes, describe morphological appearances, clinicopathological effects and complication of glomerulonephritis 2. describe pathogenesis, morphological appearances, clinicopathological effects and complications of glomerular lesions, in diabetes, amyloidosis, and vascular diseases	2h	Lecture	Pathology
d. Nephrotic syndrome and other glomerular diseases	1. define nephrotic syndrome and list the causes 2. describe the clinical manifestations, histologic alterations, pathogenesis of glomerular injury and mechanisms of progression of glomerular diseases 3. describe the other glomerular diseases - acute nephritis, vascular causes, and glomerular lesions associated with systemic disease	2h	Lecture	Pathology
2006-3/SBM-5/05				
Chronic renal failure	1. definition 2. causes 3. clinical presentation 4. biochemical derangements 5. investigations	1h	Lecture	Medicine
2006-3/SBM-5/06				
Screening for renal disease	1. common renal disorders 2. presentation of common renal disorders 3. screening methods 4. advantages of screening	1h	Lecture	Medicine
2006-3/SBM-5/07				
Clinical aspects of urinary tract	1. global and local pattern 2. common renal diseases in Sri Lanka 3. variation of pattern in Sri Lanka 4. postulates for some diseases being common in some areas	1h	Lecture	Medicine

2006-3/SBM-5/08				
Tumours of the urinary tract	1. recall chronic inflammation, metaplasia, dysplasia, carcinogenesis and spread of tumour. 2. describe pathogenesis, morphological appearances, mode of spread and complications. 3. list the diagnostic methods available.	1h	Student Presentation	Pathology
2006-3/SBM-5/09				
Urolithiasis	1. name the types of calculi and describe the gross and microscopic changes seen in the renal parenchyma due to these.	1h	Student Presentation	Pathology
2006-3/SBM-5/10				
Renovascular disorders	Recall			
2006-3/SBM-5/11				
a. Imaging of the diseases of the urinary tract	1. list the different imaging modalities used in different disease conditions discussed in this module. 2. to know the radiological features of the pathological conditions discussed above.	1h	Lecture	Radiology
b. Isotope imaging in diseases of the genito urinary tract	1. understand organ (kidney, bladder and the testes) physiology and its function with regard to radio isotope uptake (scintigraphic pattern in normal subject) and 2. understand how and when to use scintigraphy for diagnosis.	1h	Lecture	NMU
Skills				
Collection of urine samples for urinalysis & microbiology	During clinical appointment			
Identification of abnormal constituents of urine	During clinical appointment			
Examination of the abdomen and external genitalia	During clinical appointment			
Giving instructions to the patients on how to collect a 24 hour urine sample	During clinical appointment			
Interpretation of X-rays (Normal/Abnormal)	During clinical appointment			
2006-3/SBM-5/12				

Common uterine pathology				
Hyperplasia, Fibroids, Actinomycosis, Cervicitis, Bartholin syst, Pyometron, Salpingitis, Ectopic, Tubo Ovarian mass	1. describe the etio pathogenesis morphology and complications of these conditions	2h	Lecture	Pathology
	2. describe the causes of bleeding PV	1h	SGD	Pathology
	3. describe the causes of subfertility	1h	SGD	Pathology
2006-3/SBM-5/13				
Common pathological lesions in male genital tract (Urethritis, epididymoorchitis, Hydrocoel, Torsion)	describe the etio pathogenesis morphology and complications of these conditions	2h	Student Presentation	Pathology
2006-3/SBM-5/14				
Prostate - Prostatitis, Abscess, Malignant tumours (Prostatic Intra Epithelial Neoplasia, Gleasons grading)	1. recall chronic inflammation, metaplasia, dysplasia, carcinogenesis and spread of tumour. 2. describe pathogenesis, morphological appearances, mode of spread and complications. 3. list the diagnostic methods available.	1h	Student Presentation	Pathology
2006-3/SBM-5/15				
Tumours of the male genital tract	1. recall chronic inflammation, metaplasia, dysplasia, carcinogenesis and spread of tumour. 2. describe pathogenesis, morphological appearances, mode of spread and complications. 3. list the diagnostic methods available.	2h	Student Presentation	Pathology
Tumours of the female genital tract				
2006-3/SBM-5/17				
Carcinoma Cervix	describe the etio pathogenesis morphology and complications	2h	Student Presentation	Pathology
2006-3/SBM-5/18				
Psychological disorders in sexuality and reproduction	1. discuss common myths regarding sexuality	2h	Lecture	Psychiatry
2006-3/SBM-5/19				

a. Disorders of the breast (Congenital, Inflammatory, Neoplastic, Infective, Degenerative, Drug-induced, Endocrine, etc.)	1. recall acute and chronic inflammation, dysplasia, neoplasia 2. describe the pathogenesis, morphological appearances and methods of diagnosis - inflammatory disease, adenoma, papilloma, fibrocystic change and neoplasms	1h	Lecture	Pathology
b. Pathology of nipple discharge	1. describe the causes of nipple discharge	1h	SGD	Pathology
	2. describe the methods of assessment of nipple discharge			
Medico-legal aspects – Rape, Infanticide, Abortion				Forensic Medicine(DIS)
2006-3/SBM-5/20				
Common skin diseases	1. describe the pathology and clinical features of skin lesions	1h	Lecture	Pathology
2006-3/SBM-5/21				
Drugs acting on the reproductive system				
	Recall			
	1. describe the hormonal changes that occur during the menstrual cycle		Recall	
	2. describe the effects of oestrogens/ progestogens in female sexual development		Recall	
	3. list the effects of oestrogens/ progestogens in the musculo-skeletal system, digestive system, CVS and CNS		Recall	
	4. list different types of oestrogen preparations available and their pharmacokinetic differences 5. list the clinical uses of oestrogens and progestogens, and their combination therapy 6. list the advantages and disadvantages of hormonal contraception 7. list the benefits and risks of post menopausal oestrogen therapy 8. describe the mode of action and clinical uses and ADR of	3h	Lecture	Pharmacology

	(i). tamoxifen (ii). clomiphene citrate (iii).mifepristone (prostaglandins) (iv). danazole 9. describe the clinical uses and misuses of anabolic steroids and their ADR 10. list the different classes of drugs used in the treatment of carcinoma of prostate			
Clinical Skills				
PV Examination	During clinical appointment			
Speculum Examination	During clinical appointment			
Examination of breasts	During clinical appointment			
Maintain a partogram	During clinical appointment			
Starting and maintaining an oxytocin infusion	During clinical appointment			

Excretion & Reproduction Module - (Year 3 Semester 2)

Module Summary

Department	Lectures (hrs)	Student Presentation (hrs)	SGD (hrs)	Total (hrs)
Pathology	8	10	3	21
Pharmacology	3			3
Medicine	3			3
Psychiatry	2			2
Radiology	1			1
NMU	1			1
Total	18	10	3	31

Names and departments of the teachers involved in the teaching programme:

Dept. of Pathology

Prof. N. Ratnatunga
Dr. Rukmani Gunawardena
Dr. Sulochana Wijetunge
Dr. R. Waduge
Dr. E. Siriweera

Dept. of Pharmacology

Dr. U. Dangahadeniya

Dept. of Medicine

Dr. T. Jayalath

Dept. of Surgery

Dr. S. Rosairo

Head/ Dept. of Psychiatry

Head/ NMU

Examination Format

Module	Credits	MCQ	SAQ	Viva
Alimentation	3.5	2	1 1/2	Viva
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