

# Genito Urinary Pathology

**Duration: 5 Weeks (25 days)**

Concepts	Objectives	Time	T/L Activity	Dept.	Comments
<b>3/SBM-5/01</b>					
<b>Kidneys and the urinary tract</b>	Recall		Recall		
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					
<b>3/SBM-5/02</b>					
<b>Mechanisms of dysfunction of the kidneys and the urinary tract</b>	Recall		Recall		
<b>a. Renal excretory function</b>					
(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					
<b>3/SBM-5/03</b>					
<b>Introduction to GU pathology</b>	1. apply principles of general pathology to the Genito Urinary tract. (acute and chronic inflammation, metaplasia, dysplasia, neoplasia)		Recall	Pathology	Done in Foundation module
<b>2006-3/SBM-5/04</b>					
<b>Pathology of kidney and urinary tract</b>					
<b>a. Infections</b>	1. describe the pathology and pathogenesis of infections in the urinary tract to include a) Acute and chronic pyelonephritis b) Urinary Tuberculosis	1h	Lecture	Pathology	

<b>b. Glomerularnephritis, Glomerular lesions, fibrosis</b>	2. describe the pathology (macro & micro) & pathogenesis of glomerular nephritis with special reference to immune complex mediated disease 3. describe the glomerular pathology associated with systemic vasculitides and other systemic diseases. SLE and Goodpasture's syndrome etc 4. describe the pathology and pathogenesis of diabetic nephropathy renal amyloidosis describe the features of the nephritic syndrome and nephrotic syndrome and correlate with the above topics	10h	Lecture	Pathology			
<b>c. Tubular and interstitial</b>	describe the pathology and pathogenesis of tubulo interstitial disease including tubular necrosis, cortical necrosis, papillary necrosis and interstitial nephritis						
<b>d. Urolithiasis</b>	Urolithiasis, complications and clinical features		Lecture	Pathology			
<b>e. Tumours of the kidney and bladder</b>	Tumours of the kidney and bladder. Be able to describe the macroscopy, microscopy, and clinical features of the common tumours, including spread and metastasis. -Be able to discuss carcinogenic agents associated with these tumours.						
<b>Acute and chronic renal failure RPGN Other common conditions Investigations</b>		1hr		Medicine			
<b>a. Imaging of the diseases of the urinary tract</b>	1. list the different imaging modalities used in different disease conditions discussed in this module.	1h	Lecture	Radiology			
	2. to know the radiological features of the pathological conditions discussed above.						
<b>Skills</b>							
Collection of urine samples for urinalysis & microbiology	During clinical appointment				During clinical appointment		
Identification of abnormal constituents of urine	During clinical appointment				During clinical appointment		
Examination of the abdomen and external genitalia	During clinical appointment				During clinical appointment		

Giving instructions to the patients on how to collect a 24 hour urine sample	During clinical appointment				During clinical appointment
Interpretation of X-rays (Normal/Abnormal)	During clinical appointment				During clinical appointment
<b>3/SBM-5/12</b>					
<b>Female genital tract</b>					
<b>1.Vulva &amp; vagina</b>	skin lesions, Bartholian cyst and abscess,vulval dystrophy, vaginitis pathology and clinical features	1h	Lecture	Pathology	
<b>2.Uterus</b>	Hyperplasia, fibroids, adenomyosis, cervicitis, endometrial carcinoma, cervical carcinoma, tumours associated with gestation. Pathology and clinical features	2h	Lecture	Pathology	
<b>3.Fallopian tubes</b>	Endometriosis, Pelvic Infalmmatory Disease, tubal pregnancy and tubal carcinoma. Pathology and clinical features	2h	Lecture	Pathology	
<b>4.Ovaries</b>	Oophoritis, Tuboovarian masses, polycystic ovarian disease, tumours , and tumour markers Touch on imaging and US Scan. Pathology and clinical features	3h	Lecture	Pathology	
<b>3/SBM-5/13</b>					
<b>Common pathological lesions in male genital tract (Urethritis, epididymoorchitis, Hydrocoel, Torsion)</b>	describe the etio pathogenesis morphology and complications of these conditions	2h	Lecture	Pathology	
<b>3/SBM-5/14</b>					
<b>Pathology of penis</b>	Xerotica Balanitis Obliterans,Condylomata acuminata, carcinoma	1h	Lecture	Pathology	
<b>3/SBM-5/15</b>					
<b>Pathology of prostate</b>	Benign hyperplasia, prostatitis, abscess and carcinoma and prostatic tumour markers.	1h	Lecture	Pathology	
<b>Testis/epididymis</b>	Infections, tumours. Be able to describe the pathology of a scrotal lump.	1h	Lecture	Pathology	
<b>3/SBM-5/18</b>					
<b>Psychological disorders in sexuality and reproduction</b>	1. discuss common myths regarding sexuality	1h	Lecture	Psychiatry	
<b>3/SBM-5/19</b>					
<b>Breast</b>					
<b>a. Common non malignant diseases</b>	Abscess, Mastitis, Duct ectasia, Hyperpalstic disease	1h	Lecture	Pathology	

<b>b. Neoplasms</b>	Duct papilloma, nipple adenoma, fibroadenoma, phylloides tumour, ductal and lobular carcinoma- Grading system DCIS-Low grade Ductal Intraepithelial Lesions. FNA Biopsy, Hook wire guided biopsy Familial carcinoma etc..	1h	SGD	Pathology	
<b>Medico-legal aspects – Rape, Infanticide, Abortion</b>				Forensic Medicine(DIS)	(DIS)
<b>Clinical Skills</b>					
PV Examination	During clinical appointment				During clinical appointment
Speculum Examination	During clinical appointment				During clinical appointment
Examination of breasts	During clinical appointment				During clinical appointment
Maintain a partogram	During clinical appointment				During clinical appointment
Starting and maintaining an oxytocin infusion	During clinical appointment				During clinical appointment

## Systematic Pathology - II – (Year 3 Semester 2)

### Module Summary

Department	Lectures (hrs)	SGD (hrs)	Seminar (hrs)	Skills (hrs)	Museum Class (hrs)	Total (hrs)
Pathology	34	1			7	42
Psychiatry	3					3
Radiology	2					2
NMU	1					1
Medicine	2			1		3
<b>Total</b>	<b>42</b>	<b>1</b>		<b>1</b>	<b>7</b>	<b>51</b>

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

#### Dept. of Pathology

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

#### Dept. of Surgery

Dr. S. Rosairo

#### NMU

Head/ NMU

#### Dept. of Medicine

Prof. N Senanayake  
Dr. I.B. Gawarammana  
Dr. T. Jayalath

#### Dept. of Psychiatry

Dr T Rajapakse  
Dr.D.R.R.Abeysinghe

### Examination Format - Year 3 Semester 2

Module	Credits	MCQ	Essay	Viva
Systematic Pathology II	3.5	1 hr 20 MCQ (Covering Neuropathology, GIT Pathology and GUT Pathology)	2 hrs 4 Essays (1- Neuropathology. 1- GIT Pathology, 2 – GUT Pathology)	Viva

