

**KING SAUD UNIVERSITY
COLLEGE OF MEDICINE**

WEEK 1 – RENAL BLOCK A (Male)				
Week (1) Starting: 3/4/2010 (18/4/1431H)				
CHAIR PERSON: Dr.Mohammed Al-Ghonaim				
CO-CHAIR: Prof.Mahmood Al-Khattab				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 ~ 9:00 am Anatomy (Kidney) Dr Abuel Makarem	8:00 ~ 9:00 am Physiology (Glomerular Filtration) Prof.Sultan	8:00 ~ 9:00 am Physiology (Glomerular Filtration Rate) Prof.Sultan	8:00 ~ 9:00 am Pathology pathology-1 (acute kidney injury) Prof.AL-Sohaibani	8:00 ~ 9:00 am Physiology (Renal Clearance) Dr.Shahid Habib
9:00 ~ 10:00 am Histology of the Kidney Dr Aly	9:00 ~ 11:00am Small Group Discussion	9:00 ~ 10:00 am Biochemistry (Renal Function Test) Dr.Waheed Al-Harrizi	9:00 ~ 11:00am Small Group Discussion	9:00 ~ 10:00 am Embryology (Development of the Kidney) Dr. Khan
10:00 ~ 12:00 pm (Practical) (Anatomy)	11:00 ~ 12:00pm Independent Learning	10:00 ~ 11:00 am Radiological Anatomy of Renal System Dr.Albaqai	11:00 ~ 12:00pm Independent Learning	10:00~ 11:00 am Biochemistry (Chemical Examination of Urine) Dr.Mohammed Azhar Chisti
		11:00 ~ 12:00pm Renal Pharmacology Prof. Al-Haider		11:00 ~ 12:00 pm Independent Learning
Lunch	Lunch	Lunch	Lunch	Lunch
1:00 ~ 3:00 pm (Practical) Histology	1:00 ~ 3:00 pm Salam	1:00 ~ 3:00 pm (Practical) Physiology(GFR and (Renal Clearance) Facilitators	1:00 ~ 3:00 pm (Practical) pathology-1 Prof.AL-Sohaibani Dr.Amer AL-Shafi	1:00~3:00 pm Salam

LECTURE THEATER :

Room No. 2141- Level 2- Seat Cap.153

**KING SAUD UNIVERSITY
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WEEK 2 - RENAL BLOCK A (Male)				
Week (2) Starting: 10/4/2010 (25/4/1431H)				
CHAIR PERSON: Dr.Mohammed Al-Ghonaim				
CO-CHAIR: Prof.Mahmood Al-Khattab				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 ~ 9:00 am Anatomy (Ureters, Bladder and Urethra) Dr Abuel Makarem	8:00 ~ 9:00 am Microbiology 1 (Urinary Tract Infection)	8:00 ~ 9:00 am Pathology – Infection of the Urinary Tract and the Kidney-1 Prof.AL-Sohaibani	8:00 ~ 9:00 am Microbiology 2 (Treatment of UTI)	8:00 ~ 9:00 am Pathology – Infection of the Urinary Tract and the Kidney-2 Prof.AL-Sohaibani
9:00 ~ 10:00 am Histology of Urinary Passage	9:00 ~ 11:00 am Small Group Discussion	9:00 ~ 10:00 am Pharmacology (UTI Treatment-1) Prof. Humaid	9:00 ~ 11:00 am Small Group Discussion	9:00 ~ 10:00 am Embryology Development of Bladder and Urethra Dr. Khan
10:00 ~ 11:00 am Biochemistry (Amino Acids Disorder) Dr.Usman Ghani	11:00 ~ 12:00pm Independent Learning	10:00 ~ 12:00 am Independent Learning	11:00 ~ 12:00pm Independent Learning	10:00 ~ 11:00 am Independent Learning
11:00 ~ 12:00 pm (Practical) Histology of Urinary passage)				11:00 ~ 12:00 pm Pharmacology (UTI treatment-2) Prof. Humaid
Lunch	Lunch	Lunch	Lunch	Lunch
1:00 ~ 3:00 pm (Practical) pathology -2 Prof.AL-Sohaibani Dr.Amer AL-Shafi	1:00~3:00 pm Salam	1:00 ~ 3:00 pm (Practical) Anatomy (Ureters, Bladder, and Urethra)	1:00 ~ 3:00 pm (Practical) microbiology-1	1:00 ~ 3:00 pm Salam

LECTURE THEATER :

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**KING SAUD UNIVERSITY
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WEEK 3 - RENAL BLOCK Group A (Male)				
Week (3) Starting: 24/4/2010 (10/5/1431H)				
CHAIR PERSON: Dr.Mohammed Al-Ghonaim				
CO-CHAIR: Prof.Mahmood Al-Khattab				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 ~ 9:00 am Pathology of Five Major Clinical Syndrom e-1 Prof.AL-Sohaibani	8:00 ~ 9:00 am Physiology - Tubular Reabsorption Dr.Shahid Habib	8:00 ~ 9:00 am Pharmacology (Diuretics-1) Prof. Al-Haider	8:00 ~ 9:00 am Pathology of Five Major Clinical Syndrome-2 Prof.AL-Sohaibani	8:00 ~ 9:00 am Pharmacology (Diuretics-2) Prof. Al-Haider
9:00 ~ 10:00 am Physiology (Tubular Transportation...) Dr.Shahid Habib	9:00 ~ 10:00 am Small Group Discussion	9:00 ~ 10:00 am Physiology Renal Regulation of Body Fluid) Dr.Shahid Habib	9:00 ~ 11:00 am Small Group Discussion	9:00 ~ 10:00 am Physiology Concentration of the Urine Prof.Sultan
10:00 ~ 11:00 am Biochemistry (inborn error of amino acid metabolism) Dr.Usman Ghani	10:00 ~ 12:00pm Independent learning	10:00 ~ 11:00 am Biochemistry Kidney stones Dr.Sherif Saleh	11:00 ~ 12:00pm Independent learning	10:00 ~ 12:00 pm Independent learning
11:00 ~ 12:00 pm Independent learning		11:00 ~ 12:00 Immunology-1 (immune complex nephritis, Anti GBM) Prof.Zahid		
Lunch	Lunch	Lunch	Lunch	Lunch
1:00 ~ 3:00 pm (Practical) physiology (tubular function) Facilitators	1:00-3:00 pm Salam	1:00 ~ 3:00 pm (Practical) Physiology renal tubular function (CD session) Facilitators	1:00 ~ 3:00 pm (Practical) pathology-3 Prof.AL-Sohaibani Dr.Amer AL-Shafi	1:00-3:00 pm Salam

LECTURE THEATER :

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**KING SAUD UNIVERSITY
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WEEK 4 RENAL BLOCK Group A (Male)				
Week (4) Starting: 1/5/2010 (17/5/1431H)				
CHAIR PERSON: Dr.Mohammed Al-Ghonaim				
CO-CHAIR: Prof.Mahmood Al-Khattab				
Saturday	Sunday	Monday	Tuesday	Wednesday
8:00 ~ 9:00 am Independent learning	8:00 ~ 9:00 am Acid base physiology 2 Dr.Shahid Habib	8:00 ~ 9:00 am Microbiology 3	8:00 ~ 9:00 am Acid base physiology 3 Dr.Shahid Habib	8:00 ~ 9:00 am Pathology of renal allograft Prof.AL-Sohaibani
9:00 ~ 10:00 am Immunology-2 (immunology of transplant) Prof.Gad El-Rab	9:00 ~ 11:00 am Small Group Discussion	9:00 ~ 10:00am Micturation and kidney disease (physiology) Dr.Shahid Habib	9:00 ~ 10:00 am Small group discussion	9:00 ~ 10:00 am Independent learning
10:00 ~ 11:00 am Pathology (tumors of the kidney and urinary tract) Prof.AL-Sohaibani	11:00 ~ 12:00 pm Independent learning	10:00 ~ 12:00 am Independent learning	10:00 ~ 12:00 pm Independent learning	10:00 ~ 12:00 am Mid Examination
11:00 ~ 12:00 pm Acid base physiology 1 Dr.Shahid Habib				
Lunch	Lunch	Lunch	Lunch	Lunch
1:00 ~ 3:00 pm (Practical) Acid base physiology Facilitators	1:00~3:00 pm Salam	1:00 ~ 3:00 pm (Practical)-2 Microbiology	1:00 ~ 3:00 pm Independent learning	1:00~3:00 pm Salam

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PATHOLOGY

DISEASES OF THE KIDNEY AND URINARY BLADDER (6 Lectures)

Lectures 1, 2, and 3:

- Brief review of the normal anatomy and histology of kidney and urinary tract
- Pathology of the five major clinical syndrome:
 - The Nephrotic Syndrome: (minimal change, FSGS, membranous, diabetes)
 - The Acute Nephrotic Syndrome: (Acute Post Streptococcal Glomerulonephritis(GN), Membrano-Proliferative GN, Systemic Lupus Erythematosus)
 - Rapidly Progressive GN: (Crescentic GN)
 - Asymptomatic Haematuria/Proteinuria: IgA Nephropathy
 - The Chronic Nephritic Syndrome: (Chronic Renal Failure)
- Pathology of the Renal Allograft (Immune and Non-Immune mediated injuries)

Lecture 4 and 5: Infections of the Urinary Tract and Kidney:

- Urinary Tract Obstruction: causes and clinical manifestations in children and adults
- Infections of the Urinary Tract: Predisposing Factors and Clinical Manifestations
- Pathology of Acute and Chronic Pyelonephritis including causes and complications of Urolithiasis
- Drug Induced Interstitial Nephritis and Renal Necrosis Tumours of the Kidney and Urinary Bladder

Lecture 6

- Benign Tumours of the Kidney: Adenoma and Angiomyelipoma
- Renal Cell Carcinoma: Incidence, Clinical presentation, Histological features and Prognosis
- Wilm's Tumour (Nephroblastoma): Incidence, Presenting Clinical features, Genetic and histological Characteristics.
- Transitional Cell and squamous Carcinoma: Predisposing factors, Incidence, Clinical Pathological Features and prognostic Indicators (Grade and Stage)

Microbiology

1. (Urinary Tract Infection)microbiology 1
2. Microbiology 2 (Treatment of UTI)
3. Microbiology 3

PHYSIOLOGY

RENAL AND ACID-BASE BLOCK

Lecture 1: Glomerular filtration

Lecture 2: Glomerular filtration rate

Lecture 3: Renal clearance

Lecture 4: Tubular Transportation & Na⁺ Reabsorption

Lecture 5: Tubular Reabsorption of Glucose, Amino Acids, Urea & Electrolytes

Lecture 6: Concentration of Urine & Countercurrent mechanism

Lecture 7: Renal regulation of Body fluids volume and osmolarity

Lecture 8: Micturition and Kidney Diseases

Lecture 9: Acid Base Physiology

Lecture10: Acid Base Physiology

Lecture 11: Acid Base Physiology

KIDNEY PRACTICALS: DIURESIS

KIDNEY & ACID-BASE TUTORIALS

1. GFR and Renal Clearance
2. Renal Tubular Functions
3. CD Session on Renal Tubular Functions
4. Acid Base Regulation

BIOCHEMISTRY

Renal: (4 weeks)

- 1 Renal Function Test
- 2 Chemical Examination of Urine
- 3 Kidney stones
- 4 Urine screening for metabolic disorders
- 5 Amino Acids Disorder

Immunology

1. Immunology-1(immune complex nephritis, Anti GBM)
2. Immunology-2 (immunology of transplant)

ANATOMY

1. Kidney
2. Ureters, Bladder and Urethra
3. Radiological Anatomy of Renal System

Histology

1. Histology of the Kidney
2. Histology of the Urinary Passages

Embryology

1. Development of the Kidneys
2. Development of the Male Genital System
3. Development of the Female Genital System

PHARMACOLOGY

RENAL PHARMACOLGY (3 HOURS)

Diuretic Drug Therapy from Basic Pharmacology to CVD Treatment: (2)

Urinary Tract Infections (Integrated with Microbiology) (2)