INTERNAL MEDICINE
COURSE: MED 341
YEAR 2020-2021 1ST SEMESTER LECTURES

No.	Topic: Nephrology	Lecturer	Lecture Objectives
1	Hypertension	**Prof. Jamal Al Wakeel** (All group)	By the end of the lecture the student should be able to: 1. To be able to recognize the definition of hypertension 2. To be able to identify the Stages of Hypertension (ACC/AHA - European Society of Cardiology/European Society of Hypertension (ESC/ESH) 3. To find out the complication of Hypertension 4. To learn how to measure blood pressure 5. To acquire knowledge on how to treat hypertension
2	Diabetic nephropathy	**Dr. Mohammad Alkhowaiter** (All group)	By the end of the lecture the student should be able to: 1. Know what Diabetic Nephropathy means. 2. Know how common Diabetic nephropathy in Saudi Arabia is and to appreciate the huge burden of such a complication. 3. Know the risk factors of Diabetic nephropathy. 4. Know how to manage Diabetic nephropathy in general, the role of BP control and the role of ACEI/ARB medications in particular.
3	Acid Base disorders	**Dr. Talal Alfaadhel** (All group)	By the end of the lecture the student should be able to: 1. Develop an approach to acid base problems 2. Identify the primary acid base disturbance 3. Solve simple acid base cases
4	Electrolytic Imbalance 1 (Sodium & Water	**Dr. Ahmad Tarakji** (All group)	By the end of this lecture the student should be able to: 1. Recognize the systems that control body sodium and water contents 2. Differentiate between total body sodium content (volume status) and serum sodium concentration (Hypo- and Hypernatremia) 3. Use the appropriate type of IV fluids in clinical practice 4. Calculate the water deficit in Hypernatremia 5. Explain the workup of Hyponatremia
5	Electrolytic Imbalance 2(Potassium & Calcium)	**Dr. Riyadh Al Sehli** ((All group)	By the end of the lecture the student should be able to: 1. Understand the basic physiologic principles of potassium hemostasis 2. Know the application of physiologic and clinical principles in approaching hyperkalemia

			3. Know the application of physiologic and clinical principles in approaching hypokalemia 4. Understand the basic principles of Calcium hemostasis 5. Know the application of physiologic and clinical principles in approaching hypercalcemia
6	Acute kidney injury	**Dr. Mohammed Alghonaim** (All group)	By the end of the lecture the student should be able to: 1. Define Acute Kidney Injury 2. Know the epidemiology of Acute Kidney Injury 3. Know the etiology of Acute Kidney Injury 4. Manage Acute Kidney Injury 5. Diagnose Acute Kidney Injury 6. Treat Acute Kidney Injury
7	Glomerular Diseases	**Dr. Saad Al-Obaili** (All group)	By the end of the lecture the student should be able to: 1. Classify Glomerular diseases 2. Understand the pathophysiology is correlated with the clinical manifestation in Glomerular diseases. 3. Recognize the clinical manifestations in Glomerular diseases 4. Recognize the most common causes of nephritic glomerular disease.
8	Chronic kidney failure	(All group)	By the end of the lecture the student should be able to: 1. Differentiate chronic kidney disease-CKD from Acute Kidney Injury-AKI. 2. Describe the mechanism and pathophysiology of CKD progression and therapies to slow progression. 3. Compare the different causes of CKD and the risk factors of progression. 4. Identify recent updates in the diagnosis and therapy of CKD complications. 5. Classify CKD into 5 stages. 6. Discuss management choices of ESRD.