



Icahn
School of
Medicine at
Mount
Sinai

COURSE INFORMATION SHEET

Title of Course: Renal Pathophysiology

Academic Year: 2017-2018

Duration of Course: 4 weeks

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Mission Statement of Course:

Nephrology, like other disciplines in medicine, is a highly conceptual field. Since mastering the relevant concepts requires core information, hands on experience and reinforcement, the curriculum emphasizes active learning process. Lectures will describe the core knowledge base and concepts. The small group discussions are designed to promote active learning, and clarification of lecture and textbook material, using patient based cases and questions.

Goals of Course:

The Renal Pathophysiology course is designed to help students master the pathophysiology of electrolyte and acid/base disturbances, glomerular disease, tubulointerstitial disease, acute kidney injury and chronic kidney disease, and renal replacement therapies. Students will use concepts learned in lecture and investigate the interplay of the pathophysiology of several of the above topics in clinical cases discussed in small group. Because of the unique position of this course at the end of the 2nd year, there will be opportunity to tie in pathophysiology from other systems.

Objectives of Course:

By the end of the course, students will be able to:



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1. Describe the pathophysiology of electrolyte and acid/base disturbances, glomerular disease, tubulointerstitial disease, acute kidney injury and chronic kidney disease, and renal replacement therapies.
2. Analyze clinical cases in clinical small groups with respect to pathophysiology mechanisms.
3. Describe the pathology features of specific glomerular and tubulointerstitial diseases.
4. Describe the major classes of medications utilized in the management of renal disorders; name specific drugs within each class; discuss the primary mechanism of action and identify both common and life threatening side effects.