

MHD II, Session XV

Correlative Lecture Objectives:

MHD

Use various renal equations in assessing clinical renal diseases (GFR, $FeNa^+$, $FeUrea$)

Describe common electrolyte and acid-base imbalances in renal disease

Define Acute Kidney Injury (AKI)

Classify AKI into prerenal causes, intrinsic renal causes, and postrenal causes

Explain normal renal autoregulation in the setting of true hypovolemia or a low effective circulating volume state, and explain how NSAIDs, ACE-Is, and ARBs antagonize normal renal autoregulation pathways

Define the four main categories of intrinsic renal disease

Describe the diagnostic approach to AKI

Explain ways to prevent development of AKI

Explain the staging system and prevalence rates for CKD in the United States

List the two diseases that account for nearly 75% of all cases of chronic kidney disease in the United States

Describe the key clinical and pathologic features of diabetic and hypertensive nephropathy

Explain the general managerial concepts of stage II/III CKD, stage IV CKD, and ESRD

Develop a general knowledge of the physiology and practice of hemodialysis

Describe the sequelae of chronic ESRD

P&T

Describe some of the key general features of the Traditional NSAIDs and COX-2 inhibitors

Describe the common adverse effects of all classes of NSAIDs

Understand the contraindications for all classes of NSAIDs

Correlative topics in First Aid for USMLE I 2011

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Image 87A, Image 87B