

DESCRIPTIONS FOR MED 3 ROTATIONS

Nephrology A2 & A3S

A. Goals

1. Identification of the uremic syndrome
2. Assess volume status
3. Develop and approach to the diagnosis and management of the hypertensive patient
4. Develop an approach to understanding renal failure
 - Acute vs. Chronic
 - Common causes of renal failure
5. Identify common renal syndromes
 - Acute nephritic syndrome and rapidly progressive glomerulonephritis
 - Nephrotic syndrome
 - Allergic Interstitial Nephritis
 - Asymptomatic hematuria and proteinuria
 - Obstructive uropathy
 - Urinary tract infections
 - Chronic renal failure
6. Know the indications for urgent (acute) hemodialysis
 - Uremia (Encephalopathy, seizures, pericarditis)
 - Hyperkalemia unresponsive to conservative therapy
 - Volume overload unresponsive to conservative therapy
 - Acidemia unresponsive to conservative therapy
 - Certain drug ingestions (methanol, ethylene glycol, lithium, theophylline, ASA)

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7. Appreciate the complications of Chronic Renal Insufficiency
 - Access issues
 - Bone Disease, Hyperparathyroidism & Calciphylaxis
 - Anemia
 - Hypertension
 - Hyperkalemia
 - Malnutrition
 - Neuropathy
 - Atherosclerosis
8. Appreciate the common complications of dialysis
 - Inadequate dialysis
 - Sepsis (Fistula, Dialysis catheter, Peritonitis)
 - Access Failure
9. Develop an approach to common electrolyte and acid-base disturbances
 - Dyskalemia
 - Dysnatremia
 - Hyper and hypocalcemia
 - Acidemia
 - Alkalemia

B. Specific Objectives

1. To perform Urinalysis.
2. To perform a clinical exam to successfully identify components of the uremic syndrome and assess volume status.
3. Know and identify the above renal syndromes
4. Describe the natural history and presentation of the following conditions
 - Diabetic nephropathy
 - IgA nephropathy
 - Acute tubular necrosis
 - Acute and chronic glomerulonephritis
 - Secondary causes of hypertension with emphasis on renovascular disease

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5. Describe the acute management of patients with:
 - Hyperkalemia
 - Acute volume overload (pulmonary edema)
 - Metabolic acidosis

Approved by Department of Medicine Undergraduate Medical Education Committee
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