CHRONIC KIDNEY DISEASE AND END STAGE RENAL DISEASE - Learning Objectives

1. Chronic Kidney Disease (CKD) – Definition and Epidemiology
2. Explain the key features of the National Kidney Foundation staging system for CKD based on estimated GFR and albuminuria.
3. Define how estimated GFR is calculated for CKD staging.
4. List the two diseases which cause nearly 75% of all cases of CKD in the United States
5. Explain diabetic and hypertensive nephropathy in terms of epidemiology and key pathologic findings
6. Identify the most common cause of glomerulonephritis worldwide, and describe its clinical features.
7. Identify post-infectious glomerulonephritis, and describe its clinical features.
8. Identify the three most common causes of nephrotic syndromes in children and adults, and describe their clinical features.
9. Distinguish glomerular diseases from cholesterol atheroembolic disease.
10. Identify the clinical features of polycystic kidney disease.
11. Explain the general managerial concepts of CKD and ESRD with respect to hypertension management, anemia management, calcium and vitamin D disorder management, hyperphosphatemia management, and proteinuria reduction.
12. Describe options of renal replacement therapy.
13. Describe the basic principles of hemodialysis and peritoneal dialysis.
14. List the sequelae of chronic ESRD