

Nephrology CAQ Blueprint

Content Area	Percentage
1. Chronic Kidney Disease	14
2. Secondary Glomerular/Vascular Disorders	7
3. Kidney Transplantation	6
4. Hypertension	13
5. Renal Pathophysiology	15
6. Clinical Pharmacology and Miscellaneous	10
7. Tubular/Interstitial and Cystic Disorders	3
8. Acute Renal Failure/ICU Nephrology	3
9. Chronic Dialysis (Hemo & PD) (CRRT)	19
10. Diabetes Mellitus	10

1. CHRONIC KIDNEY DISEASE (14%)

- A. Abnormal result of renal function test
- B. Medical management of CKD comorbidities
 - Access planning
 - Anemias
 - Bone/mineral disorders
 - Cirrhosis
 - Diabetes mellitus
 - Gout
 - Hypertriglyceridemia
 - Mood disorders
 - Osteoporosis
 - Tobacco use
- C. Stages 1 through 5

2. SECONDARY GLOMERULAR/VASCULAR DISORDERS (7%)

- A. Churg-Strauss syndrome
- B. Focal segmental glomerulosclerosis
- C. Goodpasture syndrome
- D. Henoch-Schönlein purpura
- E. IgA nephropathy
- F. Minimal change disease
- G. Multiple myeloma
- H. Nephrotic-range proteinuria
- I. Nephrotic syndrome
- J. Polyarteritis nodosa
- K. Systemic lupus erythematosus
- L. Thrombotic microangiopathy
- M. Wegener granulomatosis

3. KIDNEY TRANSPLANTATION (6%)

- A. Complications
- B. Delayed graft function
- C. Donor evaluation
- D. Immunodeficiency and infections
- E. Immunizations
- F. Legal/ethical issues
- G. Neoplasm post transplantation
- H. Pregnancy post transplantation
- I. Post-transplantation lymphoproliferative disorder
- J. Prophylaxis
- K. Rejection

4. HYPERTENSION (13%)

- A. Essential hypertension
- B. Malignant hypertension
- C. Primary hypertension
 - Raynaud syndrome
- D. Refractory hypertension
- E. Secondary hypertension
 - Carcinoid syndrome
 - Coarctation of the aorta
 - Cushing syndrome
 - Hypertension/renal disease complicating pregnancy
 - Gestational hypertension
 - HELLP syndrome
 - Preeclampsia
 - Obstructive sleep apnea
 - Pheochromocytoma
 - Renal artery stenosis

5. RENAL PATHOPHYSIOLOGY (15%)

- A. Abnormal renal findings secondary to aging
- B. Acid-base disorders
 - Metabolic acidosis
 - Lactic acidosis
 - Renal tubular acidosis
 - Metabolic alkalosis
- C. Bone abnormalities
 - Adynamic bone disease
 - Hungry bone syndrome
 - Osteitis fibrosa
 - Osteoporosis
 - Renal osteodystrophy
- D. Electrolyte abnormalities
 - Sodium/water disorders
 - Ascites/fluid overload
 - Diabetes insipidus
 - Hyponatremia/ hyponatremia
 - SIADH
- E. Hypercalcemia/hypocalcemia
- F. Hyperkalemia/hypokalemia
- G. Hyperphosphatemia/hypophosphatemia
- H. Hyperuricemia
- I. Hypoalbuminemia
- J. Mineral abnormalities
 - Zinc deficiency in ESRD
- K. Secondary hyperparathyroidism
- L. Urine abnormalities
 - Hematuria
 - Orthostatic proteinuria
 - Proteinuria

6. CLINICAL PHARMACOLOGY AND MISCELLANEOUS (10%)

- A. Adverse drug effects
- B. Analgesic nephropathy
- C. Contrast-induced nephropathy
- D. Hepatorenal syndrome
- E. Iatrogenic erectile dysfunction
- F. Iatrogenic hyperglycosuria
- G. Iatrogenic hypotension
- H. Infectious disease
 - Asymptomatic bacteriuria in pregnancy
 - Bacteremia
 - Bladder infection
 - Hepatitis C
 - Pneumonia, immunocompromised
 - Poststreptococcal glomerulonephritis

- Urinary tract infection
- I. Nephrogenic systemic fibrosis
- J. Nephrolithiasis
- K. NSAID-induced nephropathy
- L. Rhabdomyolysis
- M. Sarcoidosis
- N. Sickle cell nephropathy
- O. Use of analgesics in chronic kidney disease

7. TUBULAR/INTERSTITIAL AND CYSTIC DISORDERS (3%)

- A. Fabry disease
- B. Focal-segmental glomerulosclerosis
- C. Minimal change disease
- D. Nephrotic-range proteinuria
- E. Nephrotic syndrome
- F. Polycystic kidney disease
 - Autosomal dominant
 - Autosomal recessive

8. ACUTE RENAL FAILURE/ICU NEPHROLOGY (3%)

- A. Acute interstitial nephritis
- B. Acute kidney injury
- C. Acute nephritic syndrome
- D. Acute tubular necrosis
- E. Allergic interstitial nephritis
- F. Anuria
- G. Anuria, newborn
- H. Bleeding gastric ulcer
- I. Cardiac
 - Acute myocardial infarction
 - Congestive heart failure
 - Coronary artery disease
 - Hypertension/hypotension
- J. Cardiogenic shock
- K. Diabetic ketoacidosis
- L. Dialysis dysequilibrium syndrome
- M. Hyperlipidemia
- N. Nephrolithiasis/obstructive uropathy
- O. Rhabdomyolysis

9. CHRONIC DIALYSIS (HEMO & PD) (CRRT) (19%)

- A. Hemodialysis complications
 - Hypotension
 - Infection
 - Malfunction
 - Peritonitis
 - Sepsis

- Steal syndrome
- B. Intradialytic hypotension

10. DIABETES MELLITUS (10%)

- A. Diabetic gastroparesis in ESRD
- B. Diabetic nephropathy
- C. Diabetic neuropathy
- D. Lupus nephritis
- E. Medication management
- F. Nephrotic syndrome secondary to diabetes mellitus