

# Certificate of Added Qualifications Examination in Nephrology

## Disease and Disorder List

### ***Acute Renal Failure/ICU***

#### ***Nephrology***

Acute interstitial nephritis

Acute kidney injury

Acute nephritic syndrome

Acute tubular necrosis

Allergic interstitial nephritis

Anuria

Anuria, newborn

Bleeding gastric ulcer

Cardiac

- Acute myocardial infarction
- Congestive heart failure
- Coronary artery disease
- Hypertension/hypotension

Cardiogenic shock

Diabetic ketoacidosis

Dialysis dysequilibrium syndrome

Hyperlipidemia

Nephrolithiasis/obstructive uropathy

Rhabdomyolysis

### ***Chronic Dialysis (Hemo & PD)***

#### ***(CRRT)***

Hemodialysis complications

- Hypotension
- Infection
- Malfunction
- Peritonitis
- Sepsis
- Steal syndrome

Intradialytic hypotension

### ***Chronic Kidney Disease***

Abnormal result of renal function test

Medical management of CKD

comorbidities

- Access planning
- Anemias

- Bone/mineral disorders

- Cirrhosis

- Diabetes mellitus

- Gout

- Hypertriglyceridemia

- Mood disorders

- Osteoporosis

- Tobacco use

Stages 1 through 5

### ***Clinical Pharmacology, Infectious Disease, and Other***

Adverse drug effect

Analgesic nephropathy

Contrast-induced nephropathy

Hepatorenal syndrome

Iatrogenic erectile dysfunction

Iatrogenic hyperglycosuria

Iatrogenic hypotension

Infectious Disease

- Asymptomatic bacteriuria in pregnancy
- Bacteremia
- Bladder infection
- Hepatitis C
- Pneumonia, immunocompromised
- Poststreptococcal glomerulonephritis
- Urinary tract infection

Nephrogenic systemic fibrosis

Nephrolithiasis

NSAID-induced nephropathy

Rhabdomyolysis

Sarcoidosis

Sickle cell nephropathy

Use of analgesics in chronic kidney disease

## ***Diabetes Mellitus***

Diabetic gastroparesis in ESRD  
Diabetic nephropathy  
Diabetic neuropathy  
Lupus nephritis  
Medication management  
Nephrotic syndrome secondary to diabetes mellitus

## ***Hypertension***

Essential hypertension  
Malignant hypertension  
Primary hypertension

- Raynaud syndrome

Refractory hypertension  
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

## ***Kidney Transplantation***

Complications  
Delayed graft function  
Donor evaluation  
Immunodeficiency and infections  
Immunizations  
Legal/ethical issues  
Neoplasm post transplantation  
Pregnancy post transplantation  
Post-transplantation lymphoproliferative disorder  
Prophylaxis  
Rejection

## ***Renal Pathophysiology***

Abnormal renal findings secondary to aging

Acid-base disorders

- Metabolic acidosis
  - Lactic acidosis
  - Renal tubular acidosis
- Metabolic alkalosis

Bone abnormalities

- Adynamic bone disease
- Hungry bone syndrome
- Osteitis fibrosa
- Osteoporosis
- Renal osteodystrophy

Electrolyte abnormalities

- Sodium/water disorders
  - Ascites/fluid overload
  - Diabetes insipidus
  - Hyponatremia/hypernatremia
  - SIADH

Hypercalcemia/hypocalcemia

Hyperkalemia/hypokalemia

Hyperphosphatemia/hypophosphatemia

Hyperuricemia

Hypoalbuminemia

Mineral abnormalities

- Zinc deficiency in ESRD

Secondary hyperparathyroidism

Urine abnormalities

- Hematuria
- Orthostatic proteinuria
- Proteinuria

## ***Secondary Glomerular/Vascular Disorders***

Churg-Strauss syndrome

Focal segmental glomerulosclerosis

Goodpasture syndrome

Henoch-Schönlein purpura

IgA nephropathy

Minimal change disease

Multiple myeloma

Nephrotic-range proteinuria

Nephrotic syndrome

Polyarteritis nodosa

Systemic lupus erythematosus  
Thrombotic microangiopathy  
Wegener granulomatosis

***Tubular/Interstitial and Cystic  
Disorders***

Fabry disease  
Focal-segmental glomerulosclerosis  
Minimal change disease  
Nephrotic-range proteinuria  
Nephrotic syndrome  
Polycystic kidney disease

- Autosomal dominant
- Autosomal recessive