

Core curriculum lectures

Renal physiology

- Functional renal anatomy and glomerular filtration
- Regulation of GFR
- Ion transport processes
- Functions of the renal tubules
- Water balance and potassium balance
- Integrative physiology of sodium balance

Glomerular diseases

- Minimal change
- Focal and segmental glomerulosclerosis (FSGS)
- Membranous nephropathy
- C3 glomerulopathy
- IgA
- Diabetic nephropathy

Glomerulonephritides/joint Renal-Rheumatology lectures

- Lupus nephritis
- ANCA vasculitis
- Scleroderma renal crisis
- Thrombotic microangiopathies

Electrolytes/acid-base

- Hyponatremia
- Hypernatremia
- Metabolic acidosis
- Metabolic alkalosis
- Magnesium disorders

Transplantation (given by Transplantation Nephrology)

- Immunobiology/immunosuppression
- Living donor transplantation: evaluation of transplant donor and recipient
- Transplantation protocols
- Non-infectious complications in transplantation
- Post-transplant infectious complications (given by Transplant ID)
- The kidney in non-renal solid organ transplantation
- Delayed graft function
- Transplant rejection

CKD management

- Anemia
- Hypertension
 - Management of hypertension in CKD/ESKD
 - Primary aldosteronism (given by Endocrinology)
- Mineral and bone disorders
- Diet/nutrition (given by renal dietician)

Dialysis

- Dialysis clearance
- Kinetics
- HD water and infection prevention
- HD complications and volume management
- Vascular access (given by Interventional Nephrology)

Cystic diseases

- Autosomal dominant polycystic kidney disease (AD/PKD)
- Other genetic cystic diseases
- Surgical management of PKD (given by Transplantation Surgery)

Onconeurology/Hematology

- Dysproteinemias
- Onconeurology
- Apheresis (given by Hematology)

Urology

- Urodynamic testing
- Surgical management of nephrolithiasis
- Surgical evaluation/management of renal masses and cysts
- Urinary reconstruction

Misc

- Diuretics
- Nephrolithiasis
- Palliative (given by Palliative Medicine)
- The kidney in pregnancy
 - Normal renal changes
 - CKD during pregnancy
 - Pregnancy-specific renal diseases