

NEPHROLOGY



STARTING DATE: _____

RATING: ☆☆☆☆☆

HIGH YIELD TOPICS:

- ☐ _____
- ☐ _____
- ☐ _____

PART 1 : EMBRYOLOGY

- ☐ EMBRYONIC KIDNEY DEVELOPMENT
- ☐ CONGENITAL SOLITARY FUNCTIONING KIDNEY
- ☐ UNILATERAL RENAL AGENESIS
- ☐ MULTICYSTIC DYSPLASTIC KIDNEY
- ☐ DUPLEX COLLECTING SYSTEM
- ☐ POSTERIOR URETHRAL VALVES (PUV)
- ☐ AMNIOTIC FLUID (AF)
- ☐ POTTER SYNDROME
- ☐ THE URACHUS
- ☐ HORSESHOE KIDNEY
- ☐ _____
- ☐ _____

PART 2 : ANATOMY

- ☐ PHYSIOLOGIC ANATOMY OF THE KIDNEY
- ☐ RENAL BLOOD FLOW
- ☐ NEPHRON
- ☐ BOWMAN'S CAPSULE
- ☐ GLOMERULUS
- ☐ PROXIMAL CONVOLUTED TUBULE
- ☐ LOOP OF HENLE
- ☐ THE DISTAL CONVOLUTED TUBULE
- ☐ COLLECTING DUCT
- ☐ URETER
- ☐ _____
- ☐ _____

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PART 3: PHYSIOLOGY

- ☐ OVERVIEW OF RENAL FUNCTION
- ☐ FLUID COMPARTMENTS
- ☐ FORMATION OF URINE
- ☐ RENAL BLOOD FLOW
- ☐ GLOMERULAR FILTRATION
- ☐ GLOMERULAR FILTRATION BARRIER
- ☐ GLOMERULAR FILTRATION RATE
- ☐ FILTRATION FRACTION (FF)
- ☐ FILTERED LOAD
- ☐ RENAL CLEARANCE
- ☐ RENAL TRANSPORT AND CLEARANCE
- ☐ REABSORPTION

PART 4: PHYSIOLOGY

- ☐ SECRETION
- ☐ REGIONAL TRANSPORT ALONG THE NEPHRON
- ☐ PROXIMAL TUBULE
- ☐ LOOP OF HENLE
- ☐ EARLY DISTAL TUBE
- ☐ LATE DISTAL TUBULE AND COLLECTING DUCT
- ☐ HYDROGEN SECRETION AND ACIDIFICATION OF THE URINE
- ☐ PHOSPHATE BUFFER SYSTEM
- ☐ AMMONIUM
- ☐ PATHOPHYSIOLOGY OF POTASSIUM DYNAMICS
- ☐ _____
- ☐ ELECTROLYTE DISTURBANCES

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PART 5: P H Y S I O L O G Y

- ☐ KIDNEY ENDOCRINE FUNCTIONS
- ☐ ACID BASE DISTURBANCE
- ☐ DETERMINING A PRIMARY PROBLEM
- ☐ PLASMA ANION GAP
- ☐ CONTRACTION ALKALOSIS
- ☐ COMPENSATORY MECHANISMS
- ☐ DAVENPORT DIAGRAM
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

PART 6: P A T H O L O G Y

- ☐ GLOMERULAR DISEASES
- ☐ NEPHRITIC SYNDROME
- ☐ ACUTE POSTSTREPTOCOCCAL GLOMERULONEPHRITIS
- ☐ _____
- ☐ DIFFUSE PROLIFERATIVE GLOMERULONEPHRITIS (DPGN)
- ☐ _____
- ☐ IGA NEPHROPATHY (BERGER DISEASE)
- ☐ RAPIDLY PROGRESSIVE (CRESCENTIC GLOMERULONEPHRITIS(RPGN)
- ☐ _____
- ☐ TYPE 1 RPGN (LINEAR IF)
- ☐ TYPE 2 RPGN (GRANULAR IF)
- ☐ _____

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- ☐ _____
- ☐ _____

PART 7 : P A T H O L O G Y

- ☐ **NEPHROTIC SYNDROME**
- ☐ MINIMAL CHANGE DISEASE
(LIPOID NEPHROSIS)
- ☐ _____
- ☐ FOCAL SEGMENTAL
GLOMERULOSCLEROSIS (FSGS)
- ☐ _____
- ☐ MEMBRANOUS NEPHROPATHY
- ☐ MEMBRANOPROLIFERATIVE
GLOMERULONEPHRITIS (MPGN)
- ☐ _____
- ☐ AMYLOIDOSIS
- ☐ DIABETIC GLOMERULONEPHROPATHY
- ☐ _____
- ☐ _____

PART 8 : P A T H O L O G Y

- ☐ **NEPHROLITHIASIS**
- ☐ CALCIUM OXALATE AND/ OR CALCIUM
PHOSPHATE
- ☐ _____
- ☐ AMMONIUM, MAGNESIUM, PHOSPHATE
- ☐ URIC ACID
- ☐ CYSTINE
- ☐ **HYDRONEPHROSIS**
- ☐ **VESICOURETERAL REFLUX**
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

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PART 9 : P A T H O L O G Y

- ☐ URINE INCONTINENCE
- ☐ STRESS INCONTINENCE
- ☐ URGE (HYPERTONIC) INCONTINENCE
- ☐ OVERFLOW (HYPOTONIC) INCONTINENCE
- ☐ URINARY TRACT INFECTION
- ☐ CYSTITS
- ☐ **PYELONEPHRITIS**
- ☐ ACUTE PYELONEPHRITIS
- ☐ CHRONIC PYELONEPHRITIS
- ☐ XANTHOGRANULOMATOUS PYELONEPHRITIS
- ☐ _____
- ☐ _____

PART 10 : P A T H O L O G Y

- ☐ RENAL FAILURE
- ☐ ACUTE KIDNEY INJURY
- ☐ ACUTE TUBULAR NECROSIS
- ☐ DIFFUSE CORTICAL NECROSIS
- ☐ ACUTE INTERSTITIAL NEPHRITIS
- ☐ CHRONIC INTERSTITIAL NEPHRITIS
- ☐ RENAL PAPILLARY NECROSIS
- ☐ CHROIC RENAL FAILURE
- ☐ CARDIORENAL SYNDROME
- ☐ RENAL TUBULAR DEFECTS
- ☐ _____
- ☐ _____

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PART 11 : P A T H O L O G Y

☐ RENAL TUBULAR ACIDOSIS

☐ DISTAL RENAL TUBULAR ACIDOSIS
(TYPE I)

☐ PROXIMAL RENAL TUBULAR (ACIDOSIS
TYPE II)

☐ HYPERKALEMIC RENAL TUBULAR
ACIDOSIS (TYPE 4)

☐ _____

☐ RENAL CYST DISORDERS

☐ AUTOSOMAL DOMINANT POLYCYSTIC
KIDNEY DISEASE

☐ AUTOSOMAL RECESSIVE POLYCYSTIC
KIDNEY DISEASE

☐ AUTOSOMAL DOMINANT
TUBULOINTERSTITIAL KIDNEY DISEASE

☐ _____

☐ SIMPLE VS COMPLEX RENAL CYSTS

☐ _____

PART 12 : P A T H O L O G Y

☐ ATHEROEMBOLIC RENAL DISEASE

☐ RENAL NEOPLASIA

☐ RENAL CELL CARCINOMA

☐ RENAL ONCOCYTOMA

☐ WILMS TUMOUR

☐ LOWER URINARY TRACT CARCINOMA

☐ UROTHELIAL (TRANSITIONAL) CELL
CARCINOMA

☐ _____

☐ SQUAMOUS CELL CARCINOMA OF THE
BLADDER

☐ _____

☐ _____

☐ _____

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PART 13 : P H A R M A C O L O G Y

- ☐ DIURETICS
- ☐ MANNITOL
- ☐ ACETAZOLAMIDE
- ☐ LOOP DIURETICS
- ☐ ETHACRYNIC ACID
- ☐ THIAZIDE DIURETICS
- ☐ POTASSIUM-SPARING DIURETICS
- ☐ ELECTROLYTE CHANGES ASSOCIATED
WITH THE USE OF DIURETICS
- ☐ URINE NA_{CL}
- ☐ URINE K
- ☐ URINE CA
- ☐ BLOOD PH

PART 14 : P H A R M A C O L O G Y

- ☐ ANGIOTENSIN CONVERTING ENZYME
INHIBITORS
- ☐ _____
- ☐ ANGIOTENSIN II RECEPTOR BLOCKERS
- ☐ ALISKIREN
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

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