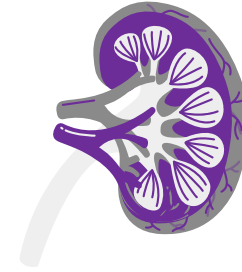


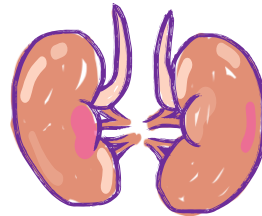
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Past paper Patho MID ALL Material



**Written by: Ahmad Rami
Zaid Bushnaq**



﴿ قُلْ بِفَضْلِ اللَّهِ وَبِرَحْمَتِهِ ۖ فَبِذَلِكَ فَلْيَفْرَحُوا هُوَ خَيْرٌ مِّمَّا يَجْمَعُونَ ﴾

**Reviewed by: Hashem Al-Jarrah
Mahmood Alabsi**

1-5

Dr. Nisreen Material

Q1:All of the following are manifestations of nephritic syndrome, EXCEPT:

- A. Massive proteinuria (>3.5 g/day)
- B. RBC casts
- C. Hypertension
- D. Azotemia
- E. Oliguria

Q2: In order to know the specific composition of immune deposits inside the glomerulus, we typically use the following test:

- A. Transmission electron microscopy
- B. Dissection microscopy
- C. Light microscopy (silver stain)
- D. Direct immunofluorescence microscopy
- E. Light microscopy (H&E stain)

Q3: Which cell type compromises the visceral layer of Bowman capsule?

- A. Endothelial cells
- B. Juxtaglomerular cells
- C. Mesangial cells
- D. Podocytes
- E. Extraglomerular mesangial (Lacis) cells

Q4: A characteristic feature of nephritic syndrome:

- A. Lipiduria
- B. Hematuria
- C. Massive proteinuria
- D. Hypoalbuminemia
- E. Hyperlipidemia

Q5: Which of the following is NOT a nephrotic sign?

- A. Generalized edema
- B. Hyperlipidemia
- C. Lipiduria
- D. Azotemia
- E. Heavy proteinuria

Q6: One is true about Minimal Change Disease:

- A. May be caused by nephron loss
- B. Diffuse glomerular basement membrane thickening
- C. Leads to recurrent hematuria
- D. Selective albumin loss in urine
- E. Azotemia is an important finding in blood tests

Q7: One is true about primary membranous nephropathy:

- A. Azotemia
- B. Recurrent episodes of hematuria
- C. Hypertension
- D. Urine RBC casts
- E. Massive proteinuria

Q8: A 4-year-old boy presents with severe proteinuria, hypoalbuminemia, generalized edema, and hyperlipidemia. The patient improves on corticosteroids with complete resolution of proteinuria. Most likely diagnosis:

- A. Diabetic nephropathy
- B. Focal segmental glomerulosclerosis
- C. Lupus nephropathy
- D. Membranous glomerulonephritis
- E. Minimal change disease

Q9: A 3-year-old girl presents with generalized edema after recovery from URI. Marked albuminuria, hypoalbuminemia, hyperlipidemia. Prior episodes responded to steroids.

Most likely diagnosis:

- A. Focal segmental glomerulosclerosis
- B. Membranous glomerulonephritis
- C. Minimal change disease
- D. Poststreptococcal glomerulonephritis
- E. Rapidly progressive glomerulonephritis

Q10: ONE is true about focal and segmental Glomerulosclerosis (FSGS):

- A. A disease of childhood
- B. Only some glomeruli are affected
- C. Rapidly progressive glomerulonephritis
- D. Positive family history in most cases
- E. Subepithelial humps

Q11: A disease that presents with nephrotic syndrome:

- A. PSGN
- B. IgA nephropathy
- C. Membranous nephropathy
- D. RPGN
- E. Acute pyelonephritis

Q12: One is true about membranoproliferative glomerulonephritis:

- A. Most common cause of azotemia in children
- B. Only one type exists
- C. Inflammation is not a contributing factor in pathogenesis
- D. Mesangial IgA deposits are diagnostic
- E. Double contour (tram-track) GBM is characteristic

Q13: One is true about IgA nephropathy:

- A. Most common nephrotic syndrome in childhood
- B. An X-linked hereditary nephritis
- C. Elevated serum anti-ASO titers
- D. Recovery is the usual outcome
- E. Linked to abnormality in secretory immunoglobulin clearance

Q14: One of the following is correct about postinfectious glomerulonephritis (PSGN):

- A. Mostly causes nephrotic syndrome
- B. Negative tests by immunofluorescence
- C. Elevated anti-streptolysin O titers
- D. Caused by staphylococci only
- E. More common in adults than children



Q15: Dense deposit disease is also known as:

- A. MPGN I
- B. RPGN I
- C. PSGN
- D. RPGN II
- E. MPGN II

Q16: Dense deposit disease is characterized by glomerular deposits composed of:

- A. IgG
- B. IgA
- C. IgM
- D. C3
- E. C4

Q17: Post-infectious glomerulonephritis is most commonly linked to an immune response against:

- A. Schistosomiasis
- B. Streptococcus Group A
- C. Staphylococcus
- D. H. influenzae
- E. Coronavirus



Q18: A 5-year-old boy presents with hematuria. He had sore throat for 2 days and similar prior episodes occurring simultaneously with sore throat, resolving after a few days. Most likely diagnosis:

- A. Alport syndrome
- B. Goodpasture syndrome
- C. IgA nephropathy
- D. Membranoproliferative glomerulonephritis
- E. Poststreptococcal glomerulonephritis

Q19:The abbreviation MPGN stands for:

- A. Membranoproliferative glomerulonephritis
- B. Minimal proteinuria glomerulonephritis
- C. Mesangial proliferative GN
- D. Membranous primary GN
- E. Microscopic proliferative GN

Q20: MPGN types I and II share in common many features, EXCEPT:

- A. C3 nephritic factor is elevated in serum
- B. An immune-mediated problem
- C. Low complement serum levels
- D. Nephritic presentation possible
- E. Poor prognosis

Q21: The letter S in PSGN representing the organism most frequently linked to the disease stands for:

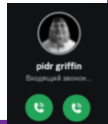
- A. Shigella species
- B. Streptococcus species (β -hemolytic)
- C. Salmonella species
- D. Streptococcus species (α -hemolytic)
- E. Staphylococcus species

Q22: Cystic diseases of the kidney that may develop carcinomas are caused by:

- A. Genetic mutation of polycystin genes
- B. Inflammation
- C. Chronic hemodialysis
- D. Hypertension
- E. Acute pyelonephritis

Q23: Wrong combination:

- A. Adult type PKD — fibrocystin 1
- B. Childhood type PKD — PKHD1
- C. Adult PKD — PKD1 mutation common
- D. Acquired cystic disease — dialysis related
- E. Medullary sponge kidney — collecting ducts



Q24: Wrong about nephronophthisis-medullary cystic disease complex:

- A. Tubulointerstitial nephritis may occur
- B. May progress to renal failure
- C. Associated with hereditary hepatic fibrosis
- D. Medullary cyst formation may occur
- E. Genetic basis may exist

Q25:Autosomal recessive (childhood) polycystic kidney disease occurs mostly due to mutation in:

- A. PKD1
- B. PKD2
- C. PKHD1
- D. WT1
- E. Nephrin

Q26: Pathogenesis of analgesic nephropathy:

- A. T-cell mediated
- B. Inhibition of PG synthesis
- C. Type I hypersensitivity reaction
- D. Non-covalent binding to enzymes
- E. Anti-GBM antibodies



Q27: All of the following can lead to hydronephrosis, EXCEPT ONE:

- A. Atresia of urethra
- B. PKHD1 mutations
- C. Ptosis of renal pelvis
- D. Prostatic hyperplasia
- E. Spinal cord damage



Q28: All are correct regarding acute drug-induced tubulointerstitial nephritis, EXCEPT one:

- A. Characterized by fever, skin rash and eosinophilia
- B. Develops within days to weeks following drug exposure
- C. Causes hematuria without significant proteinuria
- D. Increased risk of urothelial carcinoma of renal pelvis
- E. Hypersensitivity reactions may be implicated

Q29: “Struvite” renal stones are composed of:

- A. Magnesium ammonium phosphate
- B. Calcium phosphate
- C. Cystine crystals
- D. Uric acid crystals
- E. Calcium oxalate

Q30: Most common kidney stone in children:

- A. Calcium phosphate
- B. Oxalate stone (mostly)
- C. Struvite
- D. Uric acid
- E. Cystine

Q31: Wrong about acute drug-induced TIN:

- A. May cause eosinophilia
- B. Can occur after drug exposure
- C. Often hypersensitivity mediated
- D. Dose related allergy
- E. May improve after stopping drug

Q32: Analgesic nephropathy occurs due to:

- A. Immune complex deposition
- B. Inhibition of prostaglandin synthesis
- C. IgA deposition
- D. Podocyte loss
- E. Renal vein thrombosis

Q33: Hydronephrosis can occur due to:

- A. Neurogenic bladder
- B. Minimal change disease
- C. FSGS
- D. IgA nephropathy
- E. Membranous nephropathy

Q34: Most common type/cause of Acute Tubular Necrosis:

- A. Ischemia
- B. Heavy proteinuria
- C. Uric acid stones
- D. Immune complexes
- E. Podocyte injury



Q35: True about urolithiasis:

- A. Some renal stones can be completely asymptomatic
- B. Always bilateral
- C. Always radiolucent
- D. Never causes hematuria
- E. Occurs only in kidney

Q36: UTI that leads to alkaline urine most likely results in:

- A. Calcium oxalate stone
- B. Uric acid stone
- C. Struvite stone
- D. Cystine stone
- E. Xanthine stone

Q37: Elevated anti-streptolysin O titers are related to which condition:

- A. Nephrotic syndrome
- B. Diabetic nephropathy
- C. Post-infectious glomerulonephritis (PSGN)
- D. IgA nephropathy

Q38: What is true regarding medullary spongy kidney cyst?

- A. Develops in cortical proximal tubule
- B. Asymptomatic with normal renal function
- C. Associated with severe renal dysfunction
- D. Frequently causes severe pain

Q39: ONE is true about cystic diseases of the kidney:

- A. Chronic hemodialysis increases risk of renal carcinomas (100 times greater than general population)
- B. Polyuria and polydipsia are symptoms of adult polycystic renal disease
- C. PKD2 mutation is linked to autosomal recessive polycystic kidney disease
- D. Nephronophthisis uremic complex is associated with numerous cortical cysts

Q40: All of the following are correct regarding renal stones EXCEPT:

- A. Magnesium ammonium phosphate stones occur with acidic urine
- B. Uric acid stones form in acidic urine
- C. 50% of calcium stone patients have hypercalciuria with no hypercalcemia
- D. Calcium oxalate stones are the most common type of kidney stones

Q41: ONE is false about cystic diseases of the kidney:

- A. Autosomal Recessive (Childhood) Polycystic associated with liver cysts
- B. Autosomal Dominant (Adult) Polycystic is multiple bilateral cysts
- C. Polycystic kidney can cause hydronephrosis
- D. Nephronophthisis usually begins in childhood

Q42: Which of the following statements is correct regarding Minimal Change Disease:

- A. Most common with nephrosis
- B. Most common with nephritic syndrome
- C. Associated with HIV infection
- D. Looks like “spike and dome”

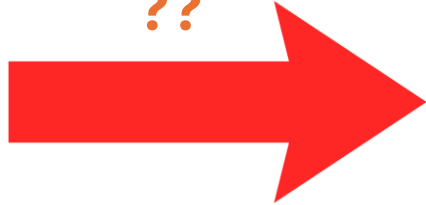


WHO IS HE?

Dr maha material
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1. Which of the following may be seen in all Urinary tumors?

- A) painless hematuria
- B) stone formation
- C) hematuria and pain during urination
- D) Eosinophilia

2. ONE statement is correct regarding tumors of the urinary tract:

- A) Schistosomiasis is a risk factor of Chromophobe renal carcinoma.
- B) Painful hematuria is a frequent symptom of renal cancers.
- C) Wilms tumor is linked to mutations in VHL gene.
- D) Clear cell carcinoma is the most common renal tumor in adults.
- E) Renal papillary carcinoma reveals mutations in VHL gene.

3. Most common urinary tract tumor:

- A) Squamous cell carcinoma
- B) Adenocarcinoma
- C) Clear cell carcinoma
- D) Transitional cell carcinoma (urothelial carcinoma)

4. Correct pair:

- A) MET mutation >> clear cell carcinoma
- B) von Hippel-Lindau mutation >> clear cell carcinoma
- C) Schistosomiasis >> clear cell carcinoma
- D) Loss of chromosomes 1 and Y >> clear cell carcinoma

5. What are the symptoms of prostatic hyperplasia?

- A) Painless hematuria
- B) Urinary urgency and frequency
- C) Bone metastases
- D) Polycythemia

6. Which of the following is correct?

- A) Papillary renal cell carcinomas are associated with abnormalities of chromosome 3
- B) Chromophobe renal carcinomas with hypodiploidy
- C) Oncocytomas are the most common malignant neoplasms of the kidney
- D) Clear cell carcinoma arises from the intercalated cells of collecting ducts

7. ONE is true about testicular tumors:

- A) Germ cell tumors are generally considered benign tumors
- B) Seminoma typically displays schiller- Duvall bodies
- C) Sex cord- stromal tumors include embryonal carcinoma and teratoma
- D) They are the most common tumors in men > 60 years old
- E) Elevated serum AFP is considered a tumor marker for testicular yolk sac tumor

8. ONE is true about prostate gland pathology:

- A) Frequent symptoms of early prostate cancer include urinary urgency and hesitancy
- B) Serum levels of prostate specific antigen (PSA) is used for prostate cancer screening
- C) Benign prostatic hyperplasia usually arise in peripheral zones
- D) Only epithelial elements are affected by benign prostatic hyperplasia
- E) Cryptorchidism is an important risk factor for prostate cancer

9. The most common primary testicular tumor in children younger than 3 years is:

- A) Embryonal carcinoma
- B) Yolk sac tumor
- C) Choriocarcinoma
- D) Teratoma

10. ONE is CORRECT regarding germ cell tumors of the testes:

- A) Embryonal carcinoma displays uniform small tumor cells
- B) Choriocarcinoma typically displays schiller-Duvall bodies
- C) Elevated serum HCG is considered a tumor marker for seminoma
- D) They are most common after the age of 60
- E) Post-pubertal germ cell tumors are considered potentially malignant

11. ONE is correct regarding prostate hyperplasia:

A) Cryptorchidism frequently leads to prostate hyperplasia.

B) Serum level of prostate specific antigen (PSA) is markedly high.

C) Involves prostate overgrowth of stroma but not glands.

D) An Androgen-dependent condition of the prostate

E) Represents the precursor lesion for prostate cancer

12. Which of the following statements are correct regarding testicular tumors:

- A) AFP is elevated in patients with seminoma
- B) Mature teratomas in postpubertal males usually follow a benign course
- C) HCG elevated in choriocarcinoma
- D) LDH is elevated exclusively in yolk sac tumors

13. What is found in Yolk sac tumors?

- A) Syncytiotrophoblasts
- B) Fibrovascular cores
- C) Schiller-Duval bodies
- D) Islands of cartilage

14. Which of the following statements is correct regarding Schistosomiasis:

- A) Is a primarily causes liver cirrhosis without affecting the bladder.
- B) is a predisposing factor for bladder cancer.
- C) does not affect the urinary system.
- D) is only associated with skin conditions.

15. All of the following are correct regarding prostatic cancer Except:

- A) It is most common in older men
- B) Cancer of prostate does not develop in males castrated befor puberty
- C) It can be detected through elevated PSA levels.
- D) It is most common in <30 years old men

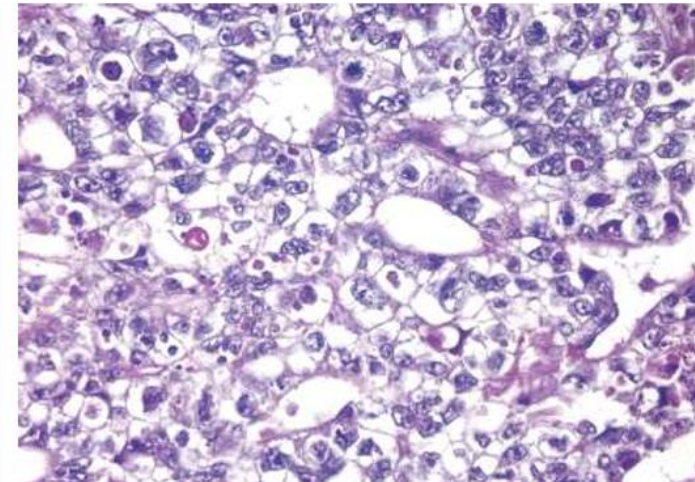
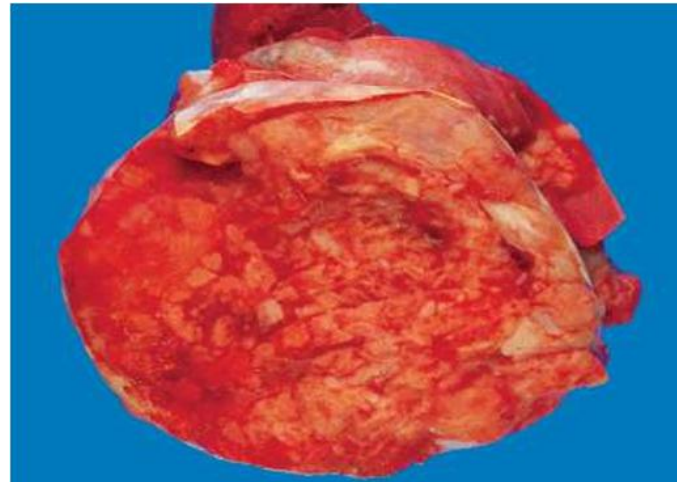
16. Which of the following is wrong about seminoma tumors?

- A) Have necrosis & hemorrhage
- B) Progressive painless enlargement of the testis
- C) Highly sensitive to radiation
- D) Typically affects younger men

Lab Material

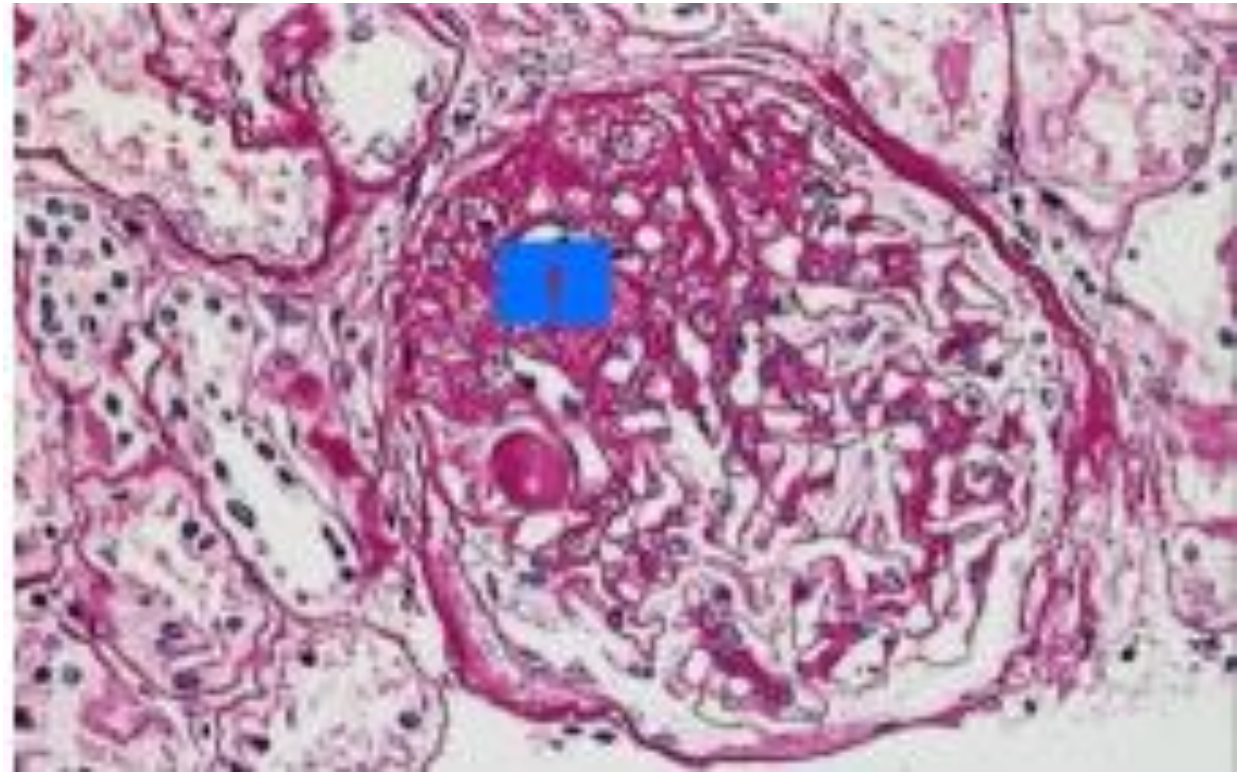
1. A 21 years-old man is found to have a large right testicular mass. He undergoes right orchiectomy. The testis contains ill-defined masses with foci of hemorrhage and necrosis. Microscopic examination shows undifferentiated cells and primitive gland-like structures. What is the most likely diagnosis?

- A) Embryonal carcinoma
- B) Mature cystic teratoma
- C) Seminoma
- D) Medullary sponge kidney



2. The pink-colored material in this picture that is characteristic of this glomerular disease is composed of:

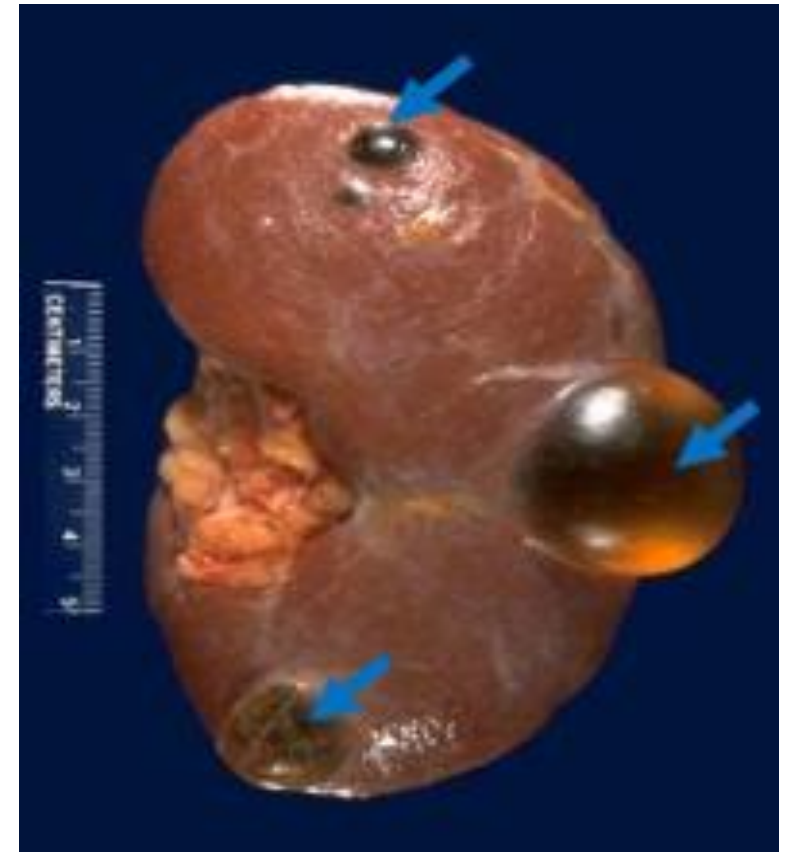
- A) Immunoglobulins
- B) Collagen (FSGS (Focal and Segmental Glomerulosclerosis))
- C) Complements
- D) Seminoma



Answer: B

3. A healthy 34 years-old man had a general medical check up for a job interview. This picture (blue arrows) is representative of what he was told to have in his left kidney. His other tests including kidney function test and urine analysis were normal. He had normal blood pressure readings. What is the most likely diagnosis?

- A) Medullary sponge kidney
- B) Simple renal cysts
- C) Hydronephrosis
- D) Adult polycystic kidney disease



Answer: b

4. A 5 years-old boy was brought to the pediatrics clinic as his parents were concerned about his growth. They described that "he drinks a lot of water and urinates very frequently". They mentioned that some of his uncles had renal failure as children and young adults. Physical examination revealed high blood pressure. His blood tests show high creatinine and urea. This picture which is representative of what the child has shows many renal cysts at the corticomedullary junction. What is the correct diagnosis

- A) Childhood polycystic kidney disease
- B) Medullary sponge kidney
- C) Nephronophthisis Medullary cystic –Uremic disease



5. Choose the correct statements regarding this testicular tumor removed from a 6 years-old boy.

A) This testicular tumor may contain firm masses and cysts with hair cartilage and bone

B) In pre-pubertal males the prognosis is unfavorable with frequent metastasis



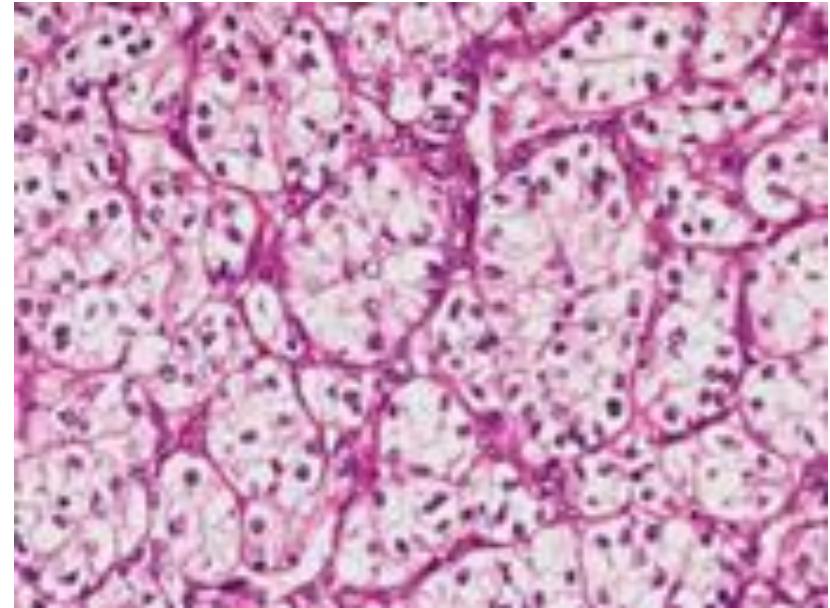
6. Dilation of renal pelvis and calyces due to _____, with accompanying _____ of kidney parenchyma. The onset maybe _____ or _____. Significance: if untreated, leads to renal parenchymal damage and _____



Answer: obstruction, atrophy, sudden, insidious, dysfunction.

7. choose the correct statement regarding the histological type of this renal tumor:

- A)The MET protooncogene is involved in familial and also sporadic cases of this tumor.
- B)Arises from the intercalated cells of the collecting ducts.
- C)Von Hippel-Lindau (VHL) disease is associated with this type of renal cancer
- D)These tumor cells have a papillary growth pattern.



Answer: C

Test Bank on Dr. Nisreen Material

Highly recommended :)



Q1: Which of the following is a feature of nephritic syndrome?

- A. Massive proteinuria >3.5 g/day
- B. Hyperlipidemia
- C. Gross hematuria
- D. Lipiduria
- E. Selective albuminuria

Q2: Which of the following is a feature of nephrotic syndrome?

- A. RBC casts
- B. Severe edema
- C. Gross hematuria
- D. Oliguria as dominant feature
- E. Azotemia as major presentation



Q3: Nephritic syndrome is associated with all of the following EXCEPT:

- A. Hematuria
- B. Mild to moderate proteinuria
- C. Hypertension
- D. RBC casts
- E. Heavy proteinuria >3.5 g/day as main feature

Q4:Nephrotic syndrome is characterized by all of the following EXCEPT:

- A. Hypoalbuminemia
- B. Generalized edema
- C. Hyperlipidemia
- D. Lipiduria
- E. Marked hematuria as principal feature



Q5: Azotemia refers to:

- A. Proteinuria with edema
- B. Increased blood urea nitrogen and creatinine
- C. Presence of RBC casts in urine
- D. Decreased urine sodium only
- E. Hyperkalemia due to tubular damage only

Q6: Uremia is best defined as:

- A. Any isolated rise in creatinine
- B. Clinical syndrome due to advanced renal failure with systemic manifestations
- C. Mild proteinuria only
- D. Presence of bacteria in urine
- E. Hyperlipidemia with edema

Q7: Rapidly progressive glomerulonephritis is characterized by:

- A. Slow loss of renal function over years
- B. Loss of renal function in days to weeks
- C. Only nephrotic syndrome
- D. No hematuria
- E. Isolated glycosuria

Q8: Acute renal failure may result from all of the following EXCEPT:

- A. Glomerular injury
- B. Interstitial injury
- C. Acute tubular necrosis
- D. Vascular injury
- E. Hyperlipidemia

Q9:Chronic renal failure is:

- A. Limited to glomerular diseases only
- B. End result of many chronic renal diseases
- C. Always reversible
- D. Characterized by isolated hematuria only
- E. Acute sudden oliguria only

Q10: Which of the following is true regarding glomerular diseases?

- A. They are uncommon causes of chronic kidney disease
- B. Bowman space is where plasma ultrafiltrate first collects
- C. Podocytes line renal pelvis
- D. Mesangial cells are absent from glomerulus
- E. Efferent arteriole enters Bowman space directly

Q11: Membranoproliferative glomerulonephritis (MPGN) usually presents as:

- A. Acute pyelonephritis
- B. Nephritic syndrome, sometimes mixed nephritic-nephrotic picture
- C. Isolated glycosuria
- D. nephrotic syndrome only
- E. Normal urinalysis only

Q12:Type I MPGN is most strongly associated with:

- A. Tubular obstruction
- B. Anti-GBM antibodies only
- C. Circulating immune complexes
- D. IgE-mediated allergy
- E. Renal artery stenosis

Q13: Type II MPGN (dense deposit disease) is caused by:

- A. Hypercalcemia
- B. Uric acid deposition
- C. Renal vein thrombosis
- D. Excessive complement activation
- E. Bacterial invasion of tubules

Q14: C3 nephritic factor acts by:

- A. Blocking aldosterone receptors
- B. Stabilizing C3 convertase
- C. Activating fibrinolysis
- D. Inhibiting renin secretion
- E. Destroying podocytes directly

Q15: A patient with hypocomplementemia is most classically associated with:

- A. Renal stones
- B. Minimal change disease
- C. Type II MPGN
- D. Acute cystitis
- E. Hydronephrosis

Q16: Light microscopy finding in MPGN includes:

- A. Tubular necrosis
- B. Papillary necrosis
- C. Normal glomeruli
- D. glomeruli with lobular appearance
- E. Crescents only

Q17: “Tram-track” appearance in MPGN refers to:

- A. Double contour splitting of GBM
- B. Podocyte foot process fusion
- C. Amyloid deposition
- D. Calcium deposition in tubules
- E. Crescent rupture into tubules

Q18:Nephritic syndrome develops mainly due to:

- A. Increased albumin synthesis
- B. Glomerular inflammation with leukocyte infiltration and proliferation
- C. Excess ADH secretion
- D. Pure lipid metabolism disorder
- E. Renal cyst enlargement only

Q19: Hypertension in nephritic syndrome is mainly related to:

- A. Hypocalcemia
- B. Decreased erythropoietin
- C. Fluid retention and increased renin release
- D. Hyperlipidemia
- E. Dehydration

Q20: Hematuria in nephritic syndrome is mainly caused by:

- A. Ureteric obstruction only
- B. Increased lymphatic drainage
- C. Hypernatremia
- D. Escape of RBCs through injured glomerular capillary walls
- E. Liver dysfunction

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Corrections from previous versions:

Versions	Slide # and Place of Error	Before Correction	After Correction
V0 → V1			
V1 → V2			