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Department of Pathology

Azra Naheed Medical College Class Test-6, 14 April 2016 (Objective-MBBS 4th Year)

Time Allowed: 30 minutes

Total Marks: 25

Name: Shereen,
Roll No: 14187
Date:

Instructions:

- All objective questions are to be attempted on the paper and returned to the invigilator within specified time after you have received the question paper.
- Any cuttings or overwriting in answering the objective part will not be accepted and no marks will be given even if the answer is correct.
- 1. The urinalysis A 59-year-old man confirms the presence of blood, but n proteinuria or glucosuria. A cystoscopy is performed, and a 3 cm exophyti mass, microscopically compsed (fibrovascular cores) covered by a thic layer of transitional cells. Which of the following risk factors is most likel to have led to development of this lesion?
 - a. Diabetes mellitus
 - b. Recurrent urinary tract infection
 - c. Therapy with methicillin
 - d.) Cigarette smoking
 - e. Use of NSAIDS
- 2. A 56-year-old man complains of <u>dull flank pain</u> and tenderness to at the right costovertebral angle. Laboratory studies show microscopic hematuri but no proteinuria or glucosuria. A urine cytology shows no atypical cells A CBC shows WBC count 7800/microliter, Hgb 21.1 g/dL, Hct 63.5%, MC 94 fL, and platelet count 195,000/microliter. His serum urea nitrogen is 1 mg/dL and creatinine 1 mg/dL. Which of the following radiographic finding is most likely to be present in this man?
 - a. Hydronephrosis on intravenous pyelogram.
 - (b.) Renai mass on abdominal CT scan
 - c. Radiopaque ureteral calculus on an abdominal plain film
 - d. Erilarged, multicystic kidneys on abdominal ultrasound
 - e. Pelvic abscess below the bladder on MR imaging

3. A 5-year-old boy has periorbital edema. A urinalysis reveals sp. gr. 1.01 pH 6.5, no glucose, 4+ protein, no blood, no casts, and no ketone Microscopic urinalysis reveals oval fat bodies, but no WBC's or RBC' Which of the following renal lesions is most likely to have been present i this boy? a. Glomerular crescent formation b.) Podocyte foot process effacement c. Patchy acute tubular necrosis d. Mesangial immune complex deposition e. Hyperplastic arteriolosclerosis 4. An abdominal CT A 3-year-old child reveals a 10 cm solid mass involvin the right kidney. The resected mass has a microscopic appearance wil sheets of small blue cells along with primitive tubular structures. Which c the following neoplasms is this child most likely to have had? a. Renal cell carcinoma b. Urothelial carcinoma c.) Wilms tumor d. Medullary fibroma e. Angiomyolipoma 5. In a clinical study, performed on subjects with renal diseases showed Los of physiologic function accompanies many diseases. physiologic function affects thirst, Loss of which of the following ren: functions is identified by measurement of the urine specific gravity? a. Filtration b. Reabsorption c. Secretion (d.) Concentration Blood flow 6. A 72-year-old man has diffusely enlarged prostate . Laboratory studie show sodium 139 mmol/L, potassium 4.0 mmol/L, chloride 104 mmol/l CO₂ 25 mmol/L, creatinine 1.9 mg/dL, and glucose 81 mg/dL. Which of th following renal abnormalities is most likely to be present in this man? a. Cortical atrophy b. Glomerulonephritis c. Papillary necrosis d. Polycystic change (e.)Renal cell carcinoma 7. Concerning the function of glomerular mesangial cells, which of the following statement is correct: a. Mesangial cells can contract and cause some decrease in total glomerul filtration area b. Mesangial cells play a major role in systemic angiotensin II production c. Mesangial cells are phagocytic and play a role in the clearing of proteins ar immune-deposits entrapped in the mesangium a and c are correct,) All are correct \