

بسم الله الرحمن الرحيم

Hemato-Final exam-2012

Histology:

- (1) which of the following is true:
- >>> 5-loped-nucleus neutrophils is more mature than 4-lobed one
- (2) which of the following is false:
- a- neutrophils phagocytic activity is enhanced by the presence of complement
- b- absence of barr body in neutrophils and other body cells indicate true male (XY)
- (3) which of the following is false:
- a- both T helper cells and cytotoxic T cells have IL-2 receptor
- b-T cytotoxic have IL-1 receptor
- (4) which of the following result in true neutrophilia:
- >>> bacterial infection

Biochem:

- (1) heme oxygenase:
- >>> require molecular oxygen
- (2) which of the following is true about uroporphyrinogen:
- a- can be synthesized directly from PBG by cosynthase
- b- result from direct conversion of coproporphrinogen
- (3) which is true about HbS and HbA:
- a- both have different migration speed in electrophoresis at PH 1-2
- b- both have different migration speed in electrophoresis at PH 8-9
- (4) all true about heme except:
- >>> containe 4 methyl and 4 vinyl groups attached to it



- (5) which of the following is true:
- a- all organs, unlike RBCs, have another pathway to synthesis NADPH
- b- NADH is required for the activity of cytochrome b5 reductase
- c- G6PD deficient mediterranean variant show sever enzyme deficency of young cells d-....
- e- all of the above are true
- (6) which of the following can't be present in beta thalassemia:
- >>> HbH

Pharmacology:

- (A) match the following with their side effects:
- 1-protamine sulfate
- 2- clonidine
- 3- quinine
- 4- coumarin
- 5- Epi.....
- a- blurred vision
- b- fetotoxic
- C-
- d-bleeding
- e- hypotension when rapidly infuse
- (B) match the following with their therapeutic indications:
- 1-protamine sulfate
- 2-heparin
- 3-warfarin
- 4-primaquine
- 5- A.....

a-radical cure of vivax and ovale

b-bind antithrombin

c-fibrinolytic

d-inhibite synthesis of coaqulation factors V, VII,

e-heparin toxicity



Microbiology:

Dr.hassan.

- (1) which is not true about P.malaraia:
- a- chroinicity
- b- glomeriolonephritis
- c- hypnozites
- d-benign
- e-band form
- (2) which is wrong about malraia:
- >>> sporogony in the liver
- (3) frequency ... P.Vivax, P.Falciparium, P,malarie, P.ovale

Dr.3azmi:

- (1) which is true about sepsis:
- a- positive blood culture always
- b- mostly caused by gram positive
- c- result always in multiple organ dysfunction
- d- always following trauma and surgery
- e-....
- (2) which is false about HIV/ AIDS:
- a- the virus is stable through out the coarse of infection
- b-
- (3) which of the following is true about EBV:
- >>> skin rash following treatment with ampicillin
- (4) which is true:
- a- HIV always accompanied by particles that are non immunogenic
- b- low CD4 cells turn over
- (5) sth about HIV tests:
- a- antigen detection is not recommended as a screening test
- b-



Physiology:

- the least common blood group :
 AB
- 2. which of the following is not true:
 - a- IDA & sidrosalstic anemia are the most common forms of microcytic anemia
 - b- indicies calculated from blood cells are defined
 - c- IDA is a common clinical problem throughout the world
 - d- estimated to affect 30% of the worlds population
- 3. the cells that are found in allergic reactions:
 - a-basophills
 - b- eosinophills
 - c- monocytes
- 4. which is true about blood PH:
 - a- the reference of acid-base state is not according to neutral value of 7 but according to PH of 7.4
 - b- acidosis is any blood PH below 7.34
 - c- alkalosis is any blood PH above 7.54
 - d-normal value is 7.4
 - e- all of the above
- 5. which is wrong:
 - >>> thrombin, urokinase, streptokinase are plasminogen activators
- 6. which of the following tissue don't contain lymphatics:
 - >>> central nervous system
- 7. which of the following is wrong:
 - a- water accounts for 10 % of body weight of females and males
 - b- osmollality of palsma is 246 mOsmol
 - c-sodium chloride contribute by 164 mOsmole



- 8. arrange the following according to activity in hematopiosis: vertebra, sternum,ribs, femur, tibia (not sure of the true arrangment)
- 9. which of the following result in shift to the right in hemoglobin oxygen saturation curve:
 - a- exercise
 - b- decrease temprature
 - c- increase PH
 - d- decrease PCO2
 - e- decrease diphosphpglycerate

Pathology:

- 1. ALL is most commonly affecting the age group:
 - a- 2- 4 years
 - b-60-70
- 2. the prominent clinical feature of ALL that occur in children:
 - a- bone & joint pain
 - b- petechiae
- 3. testicular involvement usually occur in:

ALL

- 4. all of the following are favourable prognostic factors for ALL:
 - A- hyperploidy
 - b- age = 2- 10 years
 - c- WBCs are low
 - d- MYC mutations
 - e- females
- 5. AML with high incedince of DIC:

М3

- 6. AML with cells of marked tendancy to circulate ..?
 - a- M3
 - b- M5
 - c- M2
- 7. circulatory megakaryocytes are found in:

AML M7



- 8. in addition to CML, philadelphia chromosome is associated with : burkitt's lymphoma
- soccur ball lymphocytes & smudge cells are present in : CLL
- 10. the definitive test for heriditary spherocytosis is :
 - 1- coombs test
 - 2- osmotic fragility test
 - 3- ham test
- 11. auer rods are : diagnostic for AML
- 12. the involvment of more than 1 lymph node on the same side of the diaphragm is feature of : stage II lymphomas
- 13. r(8:14) is commonly seen in : Burkitt's lymphoma
- 14. the expression of CD30 (ki- 1+) is often associated with: (anaplastic large cell lymphoma)
- 15. background cells (L& H) HISTOCYTES & LYMPHOCYTES + the popcorn appearance of cells is commonly seen in : nodular lymphocyte predominance
- 16. all are adverse prognostic factors for Hodgkins diseases except :a-involvment of the liverb- malec- age > 45



- d- eosinophilia
- e- anemia (not sure abt this alternative)

17. BCL2 ... in:

- a- hodgkins diseases
- b- diffuse large cell lymphoma
- c-follicular lymphoma
- d- MALT lymphoma
- 18. which of the following occur in hemolytic anemias:
 - a- erythroid hyperplasia of bone marrow
 - b- hypocellularity of bone marrow
- 19. the most common result of CML blastic crisis is:>>> AML
- * a question about the common age group for a type of a leukemia
- * a question about circulating neoplastic cells are seen in >>CLL

Lab:

Pathology:

- ALL L3
- Wrong statement (burkitt's): Low Grade
- Nodular Sclerosis HD.
- the cell pointed at >>> myelocyte

physio:

- picture of Erythropoiesis>>> at which stage erythropoietin act?
- -question about ESR test:
- a- increase in the case of polycythemia



- c- diagnostic
- d- change according to age, sex
- question about reticylocyte
- a- stay in the bone marrow for 2-3 days
- b- normally account for 1% of blood cells
- c- mature in the blood within 1-2 days
- d- can synthesis Hb
- e- sth wrong
- O2 Dis. Curve: Anemia/Shift to the right.
- Monocyte: Reenter Circulation / Wrong
- O about Bleeding Time ?????
- Wrong Combination of blood group Rh
- Progenitor/ Stem cell stimulated by most common stimulating factors..... ???

histo:

- (1) which of the following cells u can't see in the picture(pic 10 in lab slides):
- a- myeloblast
- b- promyelocyte
- c- myelocyte
- d- metamyelocyte
- e- more than one of the above
- (2) pic 9 in lab slides, which of the following cells don't have hemoglobin:
- a-P
- b- P and N1
- c- N1 & N2
- d-N1 & N2 & N3
- e- none of the above
- (3) pic 2 in lab slides, which of the following is true:



- a- 1 is a Neutrophilic myelocyte
- b- 2 is a Basophilic erythroblast
- c- both are correct
- d-neither is true
- (3) question about monocyte
- (4) a pic of postcapillary venule of a lymph node, which is true:
- a- present in the medulla of lymphnode
- b- used by the lymphocytes to get from lymph to blood
- c- both are correct
- d-neither of which
- (5) pic 10 in lab slides, which is true:
- a- the pointed structure is medullary cords
- b-
- c- both are correct
- d-neither is true
- (6) which of the following is wrong(pic of palatine tonsil):
- a- 1 is crypt
- b- 2 is lymphatic follicle
- c- 3 is stratified squamous epithelium
- d- it's pharyngeal tonsil
- e- neither of the above
- (7) picture of 2ry follicle, which is true:
- a- it contains plasma cells and memory cells
- b- it's present in the cortex of lymph node
- c- both correct
- d-neither is true
- (8) sinusoids of spleen ... answer>> most probably neither of them is true coz it says they are present with lymph node.
- *Cell not appearing —> most probably myelocyte

