Haematology, Oncology, Rheumatology MCQs

- 20. Which of these is no a cause of a macrocytosis?
 - a) hypothroidism
 - b) chronic alcohol intake
 - c) phenytoin
 - d) reticulocytosis
 - e) B12 and folate deficiency
- 21. Which is not a cause of a microcytic anaemia?
 - a) anemia of chronic disease
 - b) thalassemia
 - c) siderobliastic anaemia
 - d) fe deficiency
 - e) chemotherapeutic drugs
- 22. Which is a neurological sequelie of prolonged B12 deficiency?
 - a) subactue degeneration of the spinal cord
 - b) peripheral neuropathy
 - c) higher center disfunction
 - d) all of the above
 - e) none of the above
- 23. Which of these below is not a micrangiopathic hemolytic anaemia?
 - a) TTP
 - b) Hemolytic uremic syndrome
 - c) HELLP
 - d) ITP
 - e) DIC
- 24. Regarding TTP and HUS, which statement below is false?
 - a) they are probably of the same pathological entity
 - b) they both usually present with neurological abnormalities
 - c) they both cause a hemolytic anaemia
 - d) they both cause a thrombocytopenia
 - e) they both have normal coagulation
- 25. Which statement is false?
 - a) In both hemophilia A and B the INR will be normal
 - b) In both hemophilia A and B the APTT will be abnormal
 - c) Hemophilia A is more common than B
 - d) The desired treatment of Hemophilia B is administration of Factor IX
 - e) The desired treatment of Hemophilia A is the administration of cryoprecipitate
- 26. Which agent/s can be used to treat bleeding with von Willibrands disease?
 - a) desmopressin
 - b) factor VIII concentrate
 - c) factor IX concentrate
 - d) platelet transfusion
 - e) A and B
- 27. Which is not a common precipitant of sickle cell crises?
 - a) hot weather
 - b) dehydration
 - c) infection
 - d) high altitude
 - e) all of the above are precipitants

- 28. Which statement is false regarding Disseminated Intravascular coagulation?
 - a) pts usually present with hemorrhage
 - b) microthrombi/emboli are seen in some patients
 - c) replacement of clotting factors if the patient is bleeding has been shown to improve outcome
 - d) treatment of microthrombi with systemic heparin has been shown to improve outcome
 - e) all of the above are true statements
- 29. Which laboratory abnormality would you not expect to see in DIC?
 - a) decreased platelet count
 - b) high fibrinogen level
 - c) prolonged INR
 - d) elevated FDP
 - e) elevated D dimmer
- 30. Which of these commonly used drugs does NOT cause platelet dysfunction?
 - a) aspirin
 - b) penicillins
 - c) phenytoin
 - d) verapamil
 - e) tricyclic antidepressants
- 31. Which agent is not in cryoprecipitate?
 - a) factor VIII
 - b) factor IX
 - c) fibronectin
 - d) von willebrand factor
 - e) fibrinogen
- 32.In which disease is there a high incinence of philidephia chromosome?
 - a) CLL
 - b) CML
 - c) Polycythemia rubra vera
 - d) AML
 - e) ALL
- 33. Which statement is true regarding secondary polycythemia?
 - a) the erythropoeitn level is elevated
 - b) there is hepatoslenomegally
 - c) parietis is not a feature
 - d) it is usually secondary to states of low oxygen tension
 - e) the WBC and platelet counts are normal
- 34. Which is not a feature of tumour lysis syndrome?
 - a) hypercalcemia
 - b) hyperkalemia
 - c) hyperuricemia
 - d) hyper phosphatemia
 - e) lactic acidosis
- 35. What number of WBC would you expect to see in a tap of a septic joint?
 - a) <200
 - b) 200-4000
 - c) 2000-50000
 - d) 5000 150000
 - e) nil

36.Wh	at number of WBC would you usually expect to see in a tap of an inflamed joint with gout?
a)	<200
b)	200-4000
c)	2000-50000
ď)	50000-150000
e)	nil
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- 37. Which organism is not thought to be associated with Reiters syndrome?
 - a) yersinia
 - b) campylobacter
 - c) salmonella
 - d) e coli
 - e) chlamydia
- 38. Which is TRUE of Reiters syndrome?
 - a) the arthropathy usually occurs at the time of the acute infectious process
 - b) the arthropathy is usually involves 2-3 joints
 - c) there is usually associated uveitis
 - d) antibiotics are usually part of the treatment regimen
 - e) all of the above are true
- 39. Which arthropathy is not typically migratory?
 - a) viral
 - b) acute rheumatic fever
 - c) pseudogout
 - d) SLE
 - e) Gonococcal
- 40. What proportion of joint aspirates culture positive for gonoccocal arthritis?
 - a) 90 –100%
 - b) 75-90%
 - c) 50-75%
 - d) 25-50%
 - e) <25%
- 41. How should flexor tenosynovitis be managed?
 - a) immobilize, NSAIDS
 - b) immobilize oral antibiotics, NSAIDS
 - c) regular hand exercises, ice, elevation
 - d) steroid injections
 - e) admit, IV antibiotics, consider surgical intervention
- 42. Which of these is not a risk factor for gout?
 - a) alkalosis
 - b) low dose aspirin
 - c) diuretics
 - d) psoariasis
 - e) haemolysis

- 43. Which joint/s are typically spared in rheumatoid arthritis?
 - a) DIP
 - b) PIP
 - c) MCP
 - d) Wrists
 - e) C spine
- 44. Which is not classically a monoarthritis?
 - a) gout
 - b) pseudogout
 - c) sepsis
 - d) reiters
 - e) all of the above are usually a monoarthritis
- 45. Which of these is usually an oligoathritis (2-3 joints), not a polyarthritis?
 - a) reters
 - b) gonococcal
 - c) RA
 - d) Rheumatic fever
 - e) Ankylosing spondylitis
- 46. Which is not true of pseudogout?
 - a) joint aspitate show crystals that are positive birefringent
 - b) it is caused by calcium pyrophosphate crystals
 - c) the knee is the most common joint involved
 - d) treatement involves NSAIDS or colchicine
 - e) it is more common in the older age spectrum
- 47. Which is false with regards to olecrenon and pre patellar bursitis?
 - a) usually these are simply inflammatory
 - b) it is very uncommon for these to become septic
 - c) bursa aspiration is a safe and accurate way of differentiating them from a septic process
 - d) gm stain and culture is usually positive in a septic process
 - e) these bursitis's should be given prophylactic antibiotics
- 48. The usual organisms in septic arthritis in a healthy adult are?
 - a) staph aureus, gonococcus
 - b) pseudomonas
 - c) salmonella
 - d) hemophilus influenzi
 - e) anaerobes

ANSWERS

20)C	21)E	22)D	23)D	24)B							
25)E	26)E	27)A	28)D	29)B	30)C	31)B	32)B	33)B	34)A	35)D	36)C
37)D	38)B	39)C	40)D	41)E	42)A	43)A	44)D	45)C	46)D	47)E	48)A

- 1. All of the following statements are true EXCEPT
- a) One bag of cryoprecipitate contains more fibrinogen than one bag of FFP
- b) Heparin is a recognised treatment for certain types of DIC
- c) Cefamandol may cause hypovitaminatosis K
- d) Desmopressin 0.3mcg/kg, subcutaneous bd is a recognised treatment for bleeding in uremic patients
- e) The prothrombin time classically measures the extrinsic and common pathways of coagulation
- 2. A blond Norwegian backpacker presents with shortness of breath. You note jaundice on clinical examination and FBC shows Hb 80, plt 250 and wcc 8. Reticulocytes 10%. The urine is negative for urobilinogen. The investigation most likely to elicit the cause for this presentation is
- a) Direct Coombes test
- b) Osmotic fragility test
- c) Haptoglobin
- d) Serum protein electrophoresis
- e) Glucose-6-Phosphate dehydrogenase level
- 3. All of the following statements regarding the properties of stroma-free Heamoglobins are true EXCEPT
- a) The main side effect is hypertension, mediated through NO, endothelin and α2 effects
- b) They are significantly antigenic, and required ABO compatibility to be used safely
- c) There is a tendency toward formation of Met-Hb due to the lack of Met-Hb reductase
- d) A recent phase III trial was stopped early due to excess mortality in the treatment group
- e) They have a markedly increased affinity for O2 than cellular Hb
- 4. The commonest presentation of childhood Non-Hodgkins lymphoma is
- a) Fever
- b) Night Sweats
- c) Fatigue
- d) Painless lymphadenopathy
- e) Abdominal pain
- 5. The proportion of febrile neutropenic patients with active infection is
- a) 30%
- b) 40%
- c) 60%
- d) 80%
- e) 90%
- 6. All of the following are prefered treatments in tumour lysis syndrome EXCEPT
- a) 0.9% saline to maintain urine specific gravity around 1.010
- b) Alkalinisation of the urine, HCO3 1mL/kg over 1 hour
- c) IV calcium gluconate 10mL in 100mL D5W over 1 hour + resonium K 20gm pr
- d) Dialysis
- e) Insulin 0.1u/kg/hr + D10W 5mL/kg/hr
- 1. A
- 2. B
- 3. B
- 4. D
- 5. D
- 6. C