



Musculoskeletal Systems

-Final Exam-

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Batch: Glory - 2017



Pathology

Dr. Doaa

- 1) The histologic manifestation of psoriasis:
 - Acanthosis, hyperkeratosis and muno microabcess ✓
- 2) Painful lesion (small soft tissue) ,2cm and well circumscribed:
 - Nodular fasciitis ✓
- 3) Myasthenia Graves:
 - Degradation of ACH Rs ✓
- 4) A pink pearl papule telangiectasia, rubbed border on the mouth:
 - BCC ✓
- 5) Most common ca arise as a complication of osteomyelitis is sinus:
 - Squamous Cell Carcinoma ✓
 - Small Cell Carcinoma
- 6) Not related to osteoid osteoma:
 - Painless ✓
- 7) Osteosarcoma is a complication of:
 - Osteitis Deformans ✓
- 8) Question about DMD, which one is wrong?
 - hypertrophied calves
 - increase in glycogen ✓
- 9) Achondroplasia, result from a mutation in:
 - FGFR3 ✓
- 10) Pseudogout is result from deposition of:
 - Ca pyrophosphate ✓
- 11) The commonest lesion in osteopetrosis is:
 - Bone marrow depression ✓
- 12) question... muscle atrophy after casting/ disuse, what is the cause
 - denervation
 - decrease muscle fibers

الخيارين صحيحات الي بصير pseudohypertrophy
مش hypertrophy لكن الدكتور ما اقتنعت واعتمدت
الجواب increase in glycogen

Microbiology

Dr. Zain

- 13) Which of the following is false regarding to erythema infectiosum:
 - It can cause slipped face
 - caused by B19
 - when someone suffer from rash he can infect others ✓
- 14) According to (oKA) vaccine, all are correct except:

- It is two schedules
- Rarely cause rash
- Useless when used as chemoprophylactic ✓

15) The mismatch:

- Animal bits >> S. Pyogens ✓

16) The mismatch:

- Mosquito >> cutaneous migrant larva ✓

17) All are true about trichinella except:

- Treated by beta lactamase resistant antibiotics ✓

18) Which of the following is pathognomonic for sporothrix:

- Asteroid bodies ✓

19) Which of the following is false regarding to tinea versicolor:

- Diagnosed by ELISA ✓

20) TSS caused by which of the following:

- Clostridium perfringens
- Trichinella
- Pseudomonas
- Staphylococcus aureus ✓

21) A Person came to the hospital suffer from tibial and fibular fracture, after 4 days he suffer from pain, discoloration and gas criptance, which of the following microbes though to be the cause:

- Clostridium perfringens ✓

22) The eye worm that be shown in this figure:

- loa loa ✓



Anatomy - Histology - Embryology

Dr. Ayman, Dr. Jamal, Dr. Ramada

23) A woman who has loss of spherical shape of breast, the cause is due to:

- ligament of cooper's ✓

24) All of these arteries supply the breast except:

- lateral thoracic artery
- posterior intercostal
- thoracoacromial
- brachial artery ✓

25) An 18-year-old boy is cut severely on the lateral wall of his right chest during a knife fight. Following healing, his scapula moves away from the thoracic wall when he leans on his right hand, also, he finds it difficult now to open the knob of the door. Which of the following nerves is likely damaged?

- A defect in long thoracic nerve ✓

26) One of these muscles is inserted in greater tuberosity:

- teres minor ✓
- teres major

27) One of these vertebrae hasn't body:

- C1 ✓

28) One of the cervical vertebrae hasn't bifid spinous process:

- C7 ✓

29) One of these features is not found in ulna:

- olecranon fossa ✓

30) All of the following structures pass below the piriformis in greater sciatic foramen except:

- superior gluteal nerve ✓

31) Which of these bones articulate with occipital bone:

- temporal bone ✓

32) Which of these ligaments is the MOST important in resisting hyperextension:

- iliofemoral ✓

33) Which ligament is most susceptible to be affected in ankle sprain for a plantarflexed and inverted foot:

- anterior talofibular ✓

34) which epidermal layer prevent water loss?

- Stratum corneum ✓

35) main abductors of thigh

36) investing layer posterior triangle الحدود الـ الجواب والـ كيف اصيغه بما معناه انه ايش الي بغطى حدود الـ الـ كان في سؤال بس مش عارفة كيف اصيغه بما معناه انه ايش الي بغطى حدود الـ

37) Thenar muscles are supplied by:

- Median nerve ✓

38) One of the following muscles is innervated by mandibular N. Which is derived from 1st pharyngeal arch:

- Masseter ✓

39) Flex metacarpophalangeal joint and extends interphalangeal joints?

- Lumbrical(s) ✓

40) damage to ulnar nerve result in all of the following except:

- paralysis for flexor digiti minimi
- paralysis for flexor pollicis brevis ✓

41) Gracilis muscle results in ____ at the hip joint and ____ at knee joint:

- Adduction, flexion ✓

42) Carotid sheath contains all of the following except:

- internal jugular vein
- internal carotid artery
- common carotid art.

- sympathetic trunk ✓
- Vagus N.

43) Which of the following is correct about the anatomical snuff box?

-All of the above ✓

44) Limitation in the knee extension is attributed to:

- Femoral nerve injury ✓

45) One of the following is an artery that supplies shoulder joint:

- Suprascapular ✓

46) All of the following flex the elbow except:

- coracobrachialis
- biceps
- triceps ✓
- Pronator teres

47) A soccer player injures his left knee when he twists the flexed knee while trying to avoid another player. While performing a knee examination, his physician pulls the flexed knee toward her (the physician's) body, as shown in the illustration. This clinical test is a check for the integrity of which of the following ligaments?



- ACL ✓

48) All about wrist joint is correct except:

- on the posterior surface there are extensor muscles
- the joint is formed by radius and ulna above and scaphoid, lunate and triquetral below ✓

49) The upper head of lateral pterygoid muscle originates from:

- infratemporal part of sphenoid greater wing ✓
- lateral side of lateral pterygoid plate
- two choices are true

50) Football player rotates his knee while trying to avoid the other player, on examination the pt has meniscal tear and one of the knees supporting ligament has been injured, the ligament was:

- medial collateral ✓

51) All the following statements are true, EXCEPT:

- periderm cells cast off during the first intrauterine period ✓

52) Mandibular nerve supplies all the muscles that arise from the 1st arch, one of these muscles is:

- Mastoid ✓

53) On of the following statements is true about hypomere:

- It is innervated by primary ventral rami ✓

54) Sclerotome cells become polymorphous and form loosely organized tissue, called mesenchyme, or embryonic connective tissue. When this process occurs?

- at the beginning of the 3rd week
- at the end of the 4th week ✓

- at the end of the 3rd week

55) The palpable tendon between flexor carpi ulnaris and flexor carpi radialis is:

- Palmaris longus ✓
- flexor digitorum superficialis

56) One of the following muscles result in hip flexion and knee extension is:

- Rectus femoris ✓

57) One of the following muscles is not located in the 1st layer of the sole:

- Quadratus plantae ✓

58) Muscle which is inserted in palmar aponeurosis:

- palmaris longus ✓

59) A man elevates heavy weight... After examination they found that he has femoral hernia, the structure that is located laterally to the hernia neck is:

- Femoral vein ✓

60) Which bone has styloid process:

- Temporal ✓

61) One of the following is INCORRECT about eccrine sweat glands;

- Open on the hair follicle ✓

62) One of the following INCORRECT:

- apocrine glands appear anywhere there is body hair except at axilla, groin, face ✓

63) Neural cells form:

- greater wing of sphenoid bone ✓

64) The muscle that moves the hell off the ground is:

- flexor hallucis longus
- tibialis ant
- flexor digitorum longus
- gastrocnemius ✓

65) The muscle that originates from the ischial spine is:

- gemellus superior ✓
- none of the above

66) The structure that is located b/w the greater and lesser sciatic notch is:

- ischial spine ✓

67) Which of the following is/lies at the most medial of cubital fossa?

- median nerve ✓
- ulnar nerve
- Biceps Tendon
- radial artery

68) Insertion of iliotibial tract:

- Lateral condyle of tibia ✓

69) All of the following can be considered as origin for orbicularis oris except:

- Mandibular ramus

Biochemistry

Dr. Mazhar

70) All of the following are correct except:

- osteoblast is mononucleated derived from pluripotent mesenchymal cells
- osteoclast is multinucleated derived from pluripotent hematopoietic cells
- APL is specific for osteoclast
- osteoclast have a ruffled border

71) Osteoclast and osteoblast are activated by:

- calcitonin
- 1,25-dihydroxycholecalciferol

72) Osteopetrosis is due to mutation in:

- carbonic anhydrase 2

73) Which of the following is false regarding to Duchenne muscular dystrophy:

- It is autosomal recessive inherited

74) According to skeletal muscles glycogen phosphorylase deficiency, the false statement is:

- Low mental development

75) this figure / blue scara

- Osteogenesis imperfica



Physiology

Dr. Hakam

76) ACH receptor on NMJ is:

- nicotinic
- muscarinic
- both

77) Cross bridge is

- actin & myosin
- actin
- myosin

78) H zone contains

- Myosin only

79) at outer limit of this range muscle can still achieve about ___ of their maximal tetanic contraction

- 50%
- 100%
- 70%
- 30 %

80) the concentration of calcium ions in the intracellular fluid during contraction

- 2×10^{-2}
- 2×10^{-7}
- 4×10^{-2}
- 4×10^{-7}

Pharmacology

Dr. Romany

81) A 71-year-old man will undergo a prostate needle biopsy under anesthesia because of his low pain tolerance and high level of anxiety. The procedure estimated to take approximately 10 min to complete. Which of the following is the most appropriate agent for the patient to receive?

- Succinylcholine
- Mivacurium
- Pancuronium
- Rocuronium
- Tubocurarine

82) Pancuronium differs from tubocurarine in that

- It is a depolarizing blocker
- Its action is not reversed by neostigmine
- It can cause rise in BP on rapid I.V. injection
- It causes marked histamine release
- All given options

83) While TNF-alpha inhibitors are the most commonly used biologic DMARDs, an IL-6 receptor antagonist has also been found to be effective in treating rheumatoid arthritis. An example of this drug class is:

- Abatacept
- Anakinra
- Leflunomide
- Rituximab
- Tocilizumab

84) The preferred treatment option for a patient with acute gouty arthritis who presents 48 hours after the onset of pain is:

- Allopurinol
- Sulfapyrazone
- Colchicine
- Indomethacin
- Prednisone

85) A 35-year-old male presented with an attack of acute gout. He was treated with a 10 day course of naproxen. His blood uric acid level is high. What future line of treatment is most appropriate?

- No regular medication. Treat attacks of acute gout when they occur with naproxen
- Regular long-term treatment with naproxen
- Regular long-term treatment with allopurinol
- Start with allopurinol + naproxen for 2 months followed by long-term allopurinol treatment

86) Regarding treatment of osteoporosis, ONE of the followings is INCORRECT:

- Raloxifene is contraindicated in women with past history of venous thromboembolism

- Bisphosphonates provide the greatest fracture risk reductions
- Patients should lie down for at least 60 minutes after taking ibandronate
- Estrogen therapy should only be used for prevention in women with menopausal symptoms
- Calcitonin does not affect hip BMD and does not decrease hip fracture risk

87) Regarding treatment of acne. Which ONE of the followings produces hypopigmentation?

- Benzoyl peroxide
- Azelaic acid
- Salicylic acid
- Oral antibiotic
- All options correct

88) All of the followings are therapeutic options for psoriasis EXCEPT

- Hydroxyurea
- Beclomethasone cream
- Calcipotriene
- Tretinoin
- Anthralin

89) A patient suffering from hyperuricemia with frequent formation of uric acid renal stones. The following drug can decrease uric acid level in both serum and urine

- Allopurinol
- Probenecid
- Colchicine
- Hydrochlorothiazide
- Aspirin small dose (1-2g)

90) A 56-year-old man recently diagnosed with rheumatoid arthritis has a medical history significant for chronic renal insufficiency, hepatitis, and diabetes. Which one of the following DMARDs should be considered at this time?

- Leflunomide
- Azathioprine
- Methotrexate
- Sulfasalazine
- Hydroxychloroquine

91) Disease modifying antirheumatic drugs are indicated in rheumatoid arthritis:

- In place of NSAIDs in patients who do not tolerate the latter
- Along with NSAIDs in patients with progressive disease
- Only when NSAIDs fail to afford symptomatic relief
- In all patients irrespective of disease status / concurrent medication

92) A 63-year-old woman falls at home and fractures her wrist. She has a 40 pack-year history of smoking. Her doctor recommends a DXA scan, which reveals a very low bone density and prescribes alendronate. How will alendronate help this patient?

- Enhancing GI calcium absorption
- Inhibiting calcium excretion in the kidneys
- Inhibiting osteoclasts
- Providing the starting material for bone mineralization
- Stimulating osteoblasts