

All the following features differentiate between osteoid osteomas and osteoblastomas, except?

Select one:

- a. osteoid osteomas are less than 2 cm in diameter, whereas osteoblastomas are larger.
- b. Osteoblastomas arise most often in the vertebral column.
- c. Osteoid osteomas arise most often within the cortex in the proximal femur and tibia.
- d. Osteoid osteomas caused pain which is relieved by aspirin.
- e. Localized pain is an almost universal complaint with osteoblastomas.

A

Regarding Musculo-skeletal injury; which statement is WRONG?

Select one:

- a. Acute and painful injury results from strong and short-term energy transfer
- b. If the energy transfer is localized in one area, the result will be a blunt injury
- c. Wear and tear of ligaments caused by chronic and persistent injury
- d. Fracture of a bone due to a fall caused by acute and painful injury
- e. Chronic and persistent injury caused by a permanent overload or energy transfer

B

Stair-case phenomenon is caused by?

Select one:

- a. Increased temperature of muscle
- b. Low K^+ , high Na intracellularly
- c. High Ca^{++} intracellularly
- d. Increased temperature of muscle, low K^+ , high Na^+ and High Ca^{++} ICF.
- e. High K^+ ICF.

E

Regarding the metabolic diseases of the bones, choose the correct answer?

Select one:

- a. Osteogenesis imperfecta is an autosomal recessive disease
- b. hypocalcaemia may be associated with low PTH levels
- c. Ricket is a softening of bones in children due to deficiency of vitamin E
- d. In osteoporosis, the bone mineral density (BMD) is increased.
- e. Mutations in the ALPL gene cause Osteomyelitis.

B

B

One of the following is incorrect about Atopic dermatitis?

Select one:

- a. Studies identified polymorphisms associated with increased risk in genes involved in keratinocyte barrier function.
- b. Studies identified polymorphisms associated with increased risk in genes involved in T cell function.
- c. Forms the atopic triad along with asthma and allergic rhinitis.
- d. It usually appears in early childhood persists and progress as patients mature into adults.
- e. Believed to have inherited susceptibility

D

A newborn was diagnosed as having a congenital abnormality that resulted in transposition of her great arteries. While preparing the infant for surgery, the medical team needed to keep the ductus arteriosus open. They did this by infusing?

Select one:

- a. Cortisol
- b. Indomethacin
- c. Ketorolac
- d. Misoprostol
- e. Tacrolimus

D

Which surface of the spring ligament shares in the subtalar joint?

Select one:

- a. Medial
- b. Inferior
- c. Superior
- d. Lateral
- e. Median

C

The following are effects of coal tar applications on skin except?

Select one:

- a. Stains skin and clothing.
- b. Antipruritic.
- c. Inhibition of parakeratosis.
- d. Antiseptic.
- e. Soothes acutely inflamed skin lesions.

E

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E

Topical adverse effects of steroids may include the following except?

Select one:

- a. Striae.
- b. Pigmentation.
- c. Hirsutism.
- d. Perioral dermatitis.
- e. Telangiectasia.

B

The midprone position is formed by?

Select one:

- a. Long head of biceps
- b. Supinator
- c. Short head of biceps
- d. Pronator teres
- e. Brachioradialis

E

Select one:

- a. Odontalgia
- b. Otorrhea
- c. Rhinorrhea
- d. Raccoon eyes
- e. Battle's sign

Select the inappropriate statement of the following regarding the abdominal wall?

Select one:

- a. The deep inguinal ring lateral to the inferior epigastric vessels
- b. Pyramidalis muscle one of contents of the rectus sheath
- c. The transverses aponeuroses share forming the posterior layer of the rectus sheath
- d. The Arcuate line demarcated at the umbilical level
- e. The pampiniform plexus at deep inguinal ring level become single testicular vein

D

Pigs are the source of human infection by which of the following parasites?

Select one:

- a. *L. aethiopica*
- b. *L. Mexicana*
- c. *L. donovani*
- d. *Trichinella spiralis*
- e. *L. major*



Which of the following is CORRECTLY paired?

Select one:

- a. Woven bone..... Secondary bone
- b. Osteocyte processes..... Volkman's canals
- c. Growth in length..... Proximal epiphysis
- d. Osteoblasts..... osteoid
- e. Immature bone..... high mineral

D

A process by which a protein structure assumes its functional shape or conformation is?

Select one:

- a. denaturing
- b. folding
- c. synthesis
- d. hydrolysis
- e. aggregation

B

D

Which of the followings is CORRECT regarding impetigo?

Select one:

- a. Caused only by staphylococci
- b. Not contagious
- c. Blood colored crust
- d. No ulcerative lesion
- e. The extremities are the commonest site

D

- e. The extremities are the commonest site.

Each of the following statements concerning hookworm infection is correct except?

Select one:

- a. Hookworm infection can cause zigzag scar.
- b. Hookworm infection is acquired by humans when filariform larvae penetrate the skin.
- c. Hookworm infection is caused by larva migrans
- d. Hookworm infection can be diagnosed by finding the trophozoite in the stool.
- e. Infection occurs due to contact with contaminated soil (moist or sandy) with dog and cat excreta.

Scaphocephaly?

Select one:

- a. Skull is elongated anteroposterior
- b. Skull is elongated posterior
- c. Skull is elongated horizontal
- d. Skull is elongated vertical
- e. Skull is elongated anterior

A

Which of the following is INCORRECTLY paired?

Select one:

- a. Osteoclasts alkaline phosphatase
- b. Perichondrium Eustachian tube
- c. Periosteum growth in breadth
- d. Cartilage Glycosaminoglycans
- e. Articular cartilage collagen type II

A

One of the following is INCORRECTLY matched?

Select one:

- a. Keratinocytes melanogenesis
- b. Merkel cells stratum germinativum
- c. Melanocytes possess dendrites
- d. Langerhans cells receptor cells
- e. Melanocytes melanosomes

a or d

Select one:

- a. The geniohyoid
- b. The sternothyroid
- c. The omohyoid
- d. The sternohyoid
- e. The thyrohyoid

Active sites of actin is covered by?

Select one:

- a. Troponin I
- b. Troponin C
- c. Tropomyosin
- d. Calmodulin

C

Regarding urate lowering level therapy, the following drug is the first line of treatment?

Select one:

- a. Aspirin.
- b. Allopurinol.
- c. Probenecid.
- d. Febuxostat.

B

Choose the true statement of the following regarding the inguinal canal?

Select one:

- a. The deep inguinal ring is a hole in the internal oblique aponeurosis
- b. In females it allows passage the round ligament of the ovary
- c. The margins of superficial ring give attachment to internal spermatic fascia
- d. Testicular artery passes outside the canal
- e. Posterior wall formed by conjoint tendon medially& fascia transversalis laterally

E

Lobster hand is?

Select one:

- a. The limbs represented only by hand
- b. Central cleft in the hand
- c. Short hand
- d. Extra number of the fingers
- e. Abnormal fusion of the fingers

B

Regarding cutis laxa, choose the incorrect statement?

Select one:

- a. Cutis laxa is characterized by loose, and sagging skin
- b. The ELN mutations that cause cutis laxa lead to the production of an abnormally long version of the tropoelastin protein
- c. Cutis laxa can be caused by mutations in the, ATP7A, EFEMP2, and ELN genes
- d. The autosomal dominant forms of cutis laxa tend to be more severe than the recessive dominant
- e. The X-linked form of cutis laxa is often called occipital horn syndrome

D

All the drugs are used in the management of gout EXCEPT

Select one:

- a. Aspirin
- b. Ibuprofen
- c. Colchicine
- d. Indomethacin
- e. Ketoprofen

C

plasma cells extending in between the muscle fibers. Immunofluorescence reveals immune complexes in the walls of intramuscular blood vessels. Which of the following is the most likely diagnosis?

Select one:

- a. Becker muscular dystrophy
- b. Dermatomyositis
- c. Lambert-Eaton myasthenic syndrome
- d. Myasthenia gravis
- e. Polymyositis

Madurella mycetomatis, which is WRONG?

Select one:

- a. Infection may be introduced through garden thorns
- b. Usually affects subcutaneous layer
- c. Characterized by chronic granulomatous tissue
- d. Has pseudohyphae
- e. Sinuses with black granules commonly seen in this infection

D

Select the wrong statement of the following regarding the abdominal wall?

Select one:

- a. Its superficial fatty layer called (Camper fascia)
- b. Skin attaches firmly at the umbilicus
- c. External oblique aponeurosis contributes to the lateral part of the wall
- d. Internal oblique muscle has origin from anterior two-thirds of iliac crest
- e. The innermost of the three flat abdominal muscles get insertion to linea alba

C

The following is involved in induction of fever?

Select one:

- a. Absence of exogenous pyrogens.
- b. Absence of endogenous pyrogens.
- c. High PGE2 in heat regulation center.
- d. Absence of IL-1.
- e. Absence of tumor necrosis factor

C

All of the followings share in the elbow joint except?

Select one:

- a. Lateral surface of head of radius
- b. Trochlea
- c. Upper surface of head of radius
- d. Capitulum
- e. Trochlear notch

A

Regarding topical treatment of acne vulgaris, all the following are true EXCEPT?

Select one:

- a. Isotretinoin.
- b. Adapalene.
- c. Clindamycin.
- d. Erythromycin.
- e. Contraceptives.

E

Red muscle fibers are characterized by?

Select one:

- a. Large fibers
- b. More myoglobin
- c. Fast fibers
- d. Early fatigue.
- e. Like extraocular muscles.

B

One of the following is correct regarding the Sternocleidomastoid muscle?

Select one:

- a. Inserted into mastoid process of temporal bone only
- b. Originate from the lateral third of clavicle
- c. One muscle act to rotate the head to opposite side
- d. Supplied by the glossopharyngeal nerve
- e. Originate by one head only

C

All the following statements are considered as unintentional injuries EXCEPT?

Select one:

- a. Road traffic injuries
- b. Interpersonal violence
- c. Exposure to electric current, radiation and extreme ambient temperature
- d. Exposure to animate and inanimate mechanical forces
- e. Exposure to venomous plants and animals

B

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B

Houshmaid's due to inflammation of?

Select one:

- a. Subcutaneous infrapatellar bursa
- b. Subcutaneous prepatellar bursa
- c. Ligamentum patella
- d. Deep infrapatellar bursa
- e. Suprapatellar bursa

B

Which type of encapsulated nerve ending is located in the dermal papillae?

Select one:

- a. Pacinian corpuscle
- b. Meissner's corpuscle
- c. Free nerve ending
- d. Merkel's corpuscle
- e. Hair follicle receptor

B

Anterior cruciate ligament attached to?

Select one:

- a. Anterior part of the medial surface of the lateral condyle
- b. Posterior part of the lateral surface of the lateral condyle
- c. Anterior part of the medial surface of the medial condyle
- d. Posterior part of the medial surface of the lateral condyle
- e. Posterior part of the medial surface of the medial condyle

D

During resting position the head of mandible rested on?

Select one:

- a. Zygomatic arch
- b. Mandibular fossa
- c. Neck of the mandible
- d. Mandibular ligament
- e. Articular tubercle

B

Which one of the following measures is considered as a secondary prevention for musculo-skeletal injury?

Select one:

- a. Safety caps on poisonous substances
- b. Traffic safety laws
- c. Vehicle modifications which prevent automobile crashes
- d. Seatbelts
- e. Fences around swimming pools which prevent submersion

D

Which of the following statements is TRUE regarding necrotizing fasciitis?

Select one:

- a. Caused only by anaerobic bacteria.
- b. Low mortality rates.
- c. Anesthesia is the hallmark symptom.
- d. Slow spreading of redness area.
- e. Extreme pain and tenderness over the involved skin is the hallmark symptom.

E

All following about biological therapies are true EXCEPT?

Select one:

- a. Etanercept is used in moderate to severe RA
- b. Infliximab is not indicated for use alone
- c. Infliximab can be used alone as monotherapy
- d. Anakinra is IL-1 receptor antagonist and causes neutropenia
- e. Rituximab is used in severe RA with no response to TNF inhibitors and is given by IV infusion.

C

Troponin -C?

Select one:

- a. Inhibit myosin ATPase.
- b. Is a calcium binding protein.
- c. Is the binding site for myosin cross-bridge.
- d. Interact with tropomyosin.
- e. Is a sodium binding protein.

B

Which of the following flex and abduct the wrist joint?

Select one:

- a. Flexor carpi radialis
- b. Flexor digitorum superficialis
- c. Flexor carpi ulnaris
- d. Palmaris longus
- e. Flexor digitorum profundus

A

The weakest point of the shoulder joint is?

Select one:

- a. Superior
- b. Medial
- c. Anterior
- d. Inferior
- e. Lateral

D

Smooth muscle contains?

Select one:

- a. Myosin more than Actin.
- b. Tropomyosin more than troponin.
- c. Actin more than Myosin.
- d. Troponin more than Tropomyosin.
- e. Calmodulin more than troponin

C

Which of the following is in the suboccipital triangle?

Select one:

- a. 1st part of subclavian artery
- b. 3rd part of subclavian artery
- c. 3rd part of subclavian vein
- d. 2nd part of subclavian artery
- e. 4th part of subclavian artery

Which of the following ligaments is present anterior to the capsule of the hip joint?

Select one:

- a. Inguinal
- b. Pubofemoral
- c. Ischiofemoral
- d. Iliofemoral
- e. Ligamentum teres

D

Which of the following is a reversible inhibitor of platelet cyclooxygenase?

Select one:

- a. Alprostadil
- b. Aspirin
- c. Ibuprofen
- d. LTC₄
- e. Misoprostol

C

A 23 year old woman is invited over a friend birthday party. When they bring the cake she notices that it contains nuts. Eating nuts-containing food always leads her to develop multiple small erythematous pruritic papules over her neck and face, which will fade within few hours. Which of the following sensitized cells is mainly responsible for the development of these skin lesions?

Select one:

- a. CD4 T cells
- b. CD8 T cells
- c. Mast cells
- d. Plasma cells
- e. Neutrophils

C

The lateral surface of the medial malleolus is?

Select one:

- a. Half circle
- b. Comma shaped
- c. Triangular
- d. Quadrangular
- e. Trapezoid

B

Which one of the following structures of skeletal muscle is defined by the length of the thick (myosin) filaments?

Select one:

- a. A band
- b. H band
- c. I band
- d. M line
- e. Z line

A

All the following are incorrect characteristics of fibromatosis, EXCEPT:

Select one:

- a. Palmar fibromatosis is related to (Peyronie disease).
- b. Penile fibromatosis is related to (Dupuytren contracture).
- c. Deep fibromatoses include the so-called desmoid tumors
- d. Deep fibromatoses tend to grow in a locally aggressive manner and often not recur after excision.
- e. Mutations in the RB gene are present in a majority of these tumors

C

What is the best indicator of prognosis and lymph node metastasis for a melanoma?

Select one:

- a. Vertical growth.
- b. Prominent nucleoli.
- c. Radial growth.
- d. Change in size and color.
- e. New onset of itching.

D

Regarding Musculo-skeletal injuries, which one of the following statements is CORRECT?

Select one:

- a. Intentional injuries are viewed as unavoidable events
- b. Disability-Adjusted Life Year (DALY) is the indicator used to quantify the infertility
- c. Road traffic injuries are the leading cause of injury-related deaths worldwide
- d. Accidents are an expected events, implies a systematic and controllable event
- e. Unintentional injuries are viewed as unpreventable events

C

The primary objective for designing drugs that selectively inhibit COX – 2 is to?

Select one:

- a. Decrease the risk of nephrotoxicity
- b. Improve anti-inflammatory effectiveness
- c. Lower the risk of gastrointestinal toxicity
- d. Reduce the cost of treatment of rheumatoid arthritis
- e. Selectively decrease thromboxane A₂ without effects on other eicosanoids

C

The oxidation of L-tyrosine to L-DOPA is catalysed by the action of?

Select one:

- a. Tyrosine hydroxylase
- b. Tyrosine tautomerase
- c. Tyrosinase enzymes
- d. Tyrosine phosphatase
- e. Tyrosine phosphorylase

A

Which of the following share in the articulation of hip joint?

Select one:

- a. Medial 2/3 of the head of the femur
- b. Pterygoid fovea
- c. Median 2/3 of the head of the femur
- d. Medial 1/3 of the head of the femur
- e. Lateral 2/3 of the head of the femur

A

The most potent topical steroid of the following is?

Select one:

- a. Halcinonide.
- b. Alclomethasone dipropionate.
- c. Fluocinolone acetonide.
- d. Betamethasone valerate.
- e. Hydrocortisone with urea.

A

All of the followings flex the shoulder joint except?

Select one:

- a. Pectoralis major
- b. Short head of biceps
- c. Anterior fibers of the deltoid
- d. Long head of biceps
- e. Coracobrachialis

D

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D

Vitamin C (ascorbate) is a cofactor of?

Select one:

- a. Lysyl hydroxylase
- b. Lysyl oxidase.
- c. Phosphodiesterase.
- d. N-acetylglucosamine phosphotransferase.
- e. Lysyl primase.

A

The following skeletal muscle relaxants match their side effects except?

Select one:

- a. Orphenadrine: Antimuscarinic side effects.
- b. Succinylcholine: Post-operative muscle pain.
- c. Baclofen : Seizures in epileptic patients.
- d. Vecuronium : Histamine release from mast cells.
- e. Dantrolene : Liver toxicity.

D

Regarding melanin, all of the following are correct except?

Select one:

- a. Melanin pigments are derivatives of the amino acid tyrosine
- b. Production of melanin is inhibited by UVB-radiation
- c. The protective qualities of melanin rely upon its ability to absorb harmful UV-radiation
- d. The concentration of melanocytes generally remains constant between individuals and ethnic groups
- e. Melanin synthesis begins in the liver.

Patient with a knife stab in the right thigh developed after 4 days into sever pain with anesthesia. The presumptive diagnosis is?

Select one:

- a. Erysipelas.
- b. Cellulitis.
- c. Ecthyma.
- d. Necrotizing fasciitis.
- e. Scalded skin syndrome.

D

A 29-year-old man attended at clinic complaining of a painless lump over his thigh which has enlarged only slowly over the past 3 years. By examination, a soft 2-cm nodule is palpable in the subcutis of the thigh. The lesion is excised. Grossly, it is circumscribed and has a uniformly yellow cut surface. Regarding these findings, which of the following is the best advice to give the patient?

Select one:

- a. This mass is benign and will not recur
- b. More lesions will develop over time
- c. Metastases to regional lymph nodes are likely
- d. Other members of your family should be examined for similar lesions
- e. Antibiotic therapy will be needed

A

All of the followings share in articulation of wrist except?

Select one:

- a. Lunate
- b. Distal end of the radius
- c. Scaphoid
- d. Triquetral
- e. Distal end of the ulna

E

About sweating, all are correct except?

Select one:

- a. Sweat start at environmental temp of 32oC
- b. Dribbling alone without evaporation causes no loss of body temperature.
- c. It is hypotonic secretion of NaCl.
- d. Its center is the preoptic nuclei in the posterior hypothalamus
- e. Stimulated by postganglionic cholinergic sympathetic nerve endings

Sunscreens: Which one of the following is false?

Select one:

- a. Their prevention of sun tanning comes from reducing action of UV-B.
- b. They can be used to protect vitiligo patches against sunburn.
- c. They are usually not clinically effective if their SPF is less than 10.
- d. Titanium, applied to exposed parts, absorbs both UV-B and UV-A.
- e. They lose their effect if they are washed by sweating or swimming.

D

For collagen synthesis, choose the incorrect statement?

Select one:

- a. There are approximately 34 genes associated with collagen formation.
- b. The first part of the new peptide is known as the signal sequence.
- c. Glycosylation occurs by adding either glucose or galactose monomers onto the hydroxyl groups in lysines.
- d. In the golgi apparatus, the procollagen goes through one last post-translational modification before being secreted out of the cell.
- e. collagen peptidases, remove the extra pre-pro peptide of the collagen molecule.

E

Each of the following statements concerning herpesvirus latency is correct EXCEPT?

Select one:

- a. Exogenous stimuli can cause reactivation of herpesvirus replication in latently-infected cells.
- b. During latency, antiviral antibody is not demonstrable in the sera of infected individuals.
- c. Reactivation of latent herpesviruses are more common in patients with impaired cell-mediated immunity than in immunocompetent patients.
- d. Herpesvirus genome DNA persists in latently infected cells.
- e. In latency infected cells, transcription of few latency- associated transcripts occurs.

B

One of the following is INCORRECT regarding bone formation?

Select one:

- a. Endochondral ossification within diaphysis represents primary ossification center
- b. Endochondral ossification begins third month of gestation in long bones
- c. Endochondral ossification occurs within epiphyseal plate as secondary ossification center
- d. Intramembranous ossification occurs in jaw
- e. Intramembranous ossification the mesenchymal cells forms blastema

One of the following is CORRECTLY matched?

Select one:

- a. Stratum lucidum..... Shows frequent mitosis
- b. Stratum granulosum..... Keratohyalin granules
- c. Stratum basale..... Meissner's corpuscles
- d. Stratum corneum..... Prickle cell layer
- e. Stratum spinosum..... No desmosomes

B

Cutaneous mycoses, one is mismatched?

Select one:

- a. Tinea corporis - Chest skin infection
- b. Tinea cruris -Groin skin infection
- c. Tinea unguinum -Thigh skin infection
- d. Tinea pedis -foot infection
- e. Tinea capitis -Head infection

C

All of the followings are muscles of mastication except?

Select one:

- a. Superficial head of medial pterygoid
- b. Buccinator
- c. Temporalis
- d. Lateral head of lateral pterygoid
- e. Masseter

D

Regarding the Glucocorticoids , all of the following are incorrect except?

Select one:

- a. It increases calcium absorption from the intestines.
- b. It stimulates bone formation.
- c. It inhibits bone resorption.
- d. It decreases renal calcium excretion.
- e. It decreases sex steroid production.

A

A 70-year-old woman has a lesion on the right side of his face that has enlarged slowly over the past 6 years. On examination, the 3.5-cm lesion has irregular borders, irregular brown to black pigmentation. The lesion is resected and microscopically shows nests of atypical cells with prominent red nucleoli. Which of the following mutated genes is most likely to be present in the skin lesion of this man?

Select one:

- a. ATM
- b. BRAF
- c. NF1
- d. TYR
- e. PTCH1

B

All following about disease modifying antirheumatic drugs are true EXCEPT?

Select one:

- a. Methotrexate competitively inhibits the enzyme dihydrofolate reductase
- b. Leflunamide is contraindicated during pregnancy
- c. Hydroxychloroquine is used for arthralgia associated connective tissue diseases
- d. Penicillamine is commonly used in RA
- e. Infliximab can cause neutropenia

D

The body temperature increase by all of the following, except?

Select one:

- a. Hyperthyroidism.
- b. Food intake.
- c. Sweating.
- d. Emotions.
- e. Muscle exercise.

d or c