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## **CNS-1 Final, 2012**

\*\* The answers MAY NOT be correct 😊

### **PHYSIO**

one of the following is incorrect about parkinson's :  
stable postural reflexes

wrong combination:  
lateral hypothalamic nucleus: center for satiety

loss of sensation in a certain dermatome and the whole side below it is due to a lesion in:

- a- spinal nerve
  - b- peripheral nerve
  - c- nerve root
  - d- spinal cord
- answer is "d"

Not associated with brainstem lesion : dysphasia

when u sit down, all of these are involved in the sensation except:

- a-dorsal column
  - b- medial lemniscus
  - c- thalamocortical projections
  - d- VPL
  - e- cuneate fasciculus
- it is "e"

patient has come showing aggression & violence, doing dance-like movements, one of these isn't associated with his disorder:  
hypotonia

choose the correct about pyramidal tract:  
only 20% do not decussate at the lower medullary pyramid

all of the following are dimorphic with different organization in each sex except:

- a- anterior commissure
- b- suprachiasmatic nucleus
- c- thalamic nuclei <<< answer
- d- ventrolateral nucleus

choose the correct about pyramidal tract:

- a- only 20% don't decussate at the medullary pyramid
- b- only 6% have a conduction velocity of 70m/s
- c- 40% of its fibers are formed from axons arising from primary motor and association areas in cortex

associated with cerebellar lesion:

- a-apraxia
- b- hypotonia
- c- muscle atrophy
- d- spasticity
- e-....

a patient loss the pain and temperature sensations from both lower legs and motor activity with intact touch and vibration senses & proprioception, has a history of valvular stenosis... he's likely to have

- a- beck's syndrome <<< answer
- b- wallenberg syndrome

....

all true about cerebellum except:

cells are not discharging until being stimulated

Biochem

which stem cell is the most potent, genetically engineered and causes no immune reaction:

- 1- iPS
- 2- embryonic
- 3- adult neural

which is the best source for adult stem cells:

- 1- periventricular area
- 2- dentate of hippocampus
- 3- spinal cord

what is the major cause of variation in color perception:

- 1- SNP

how is vitamin A transported to the liver after absorption in the intestine:  
1-in chylomicrons

wrong statement about signal termination in photoreceptor cells:  
1- inactivation of G cyclase due to decrease intracellular [Ca]

Micro

HSV is the most common cause of sporadic encephalitis

West Nile Virus is not associated with post-infectious forms of encephalitis

not true about aseptic meningitis: only caused by viruses

Rabies:

- Wrong statement: the incidence of Rabies in Jordan is due to the bites of wild Animals
- Wrong statement: route of transmission if limited to licking and biting of rabid animals

wrong statement about vCJD: common in the elderly

Wrong statement about encephalitis: it cannot be prevented or treated

wrong statement about meningitis (or encephalitis): brain biopsy is usually acquired for diagnostic purposes

all of the following can cause post infectious encephalitis except:  
influenza

all of the following true about subacute spongiform encephalopathies except:  
intense inflammatory reaction

all of the following true about polio except:  
non-paralytic form of the disease progress to paralysis within few days

all of the following true about polio except:  
epidemic paralytic polio is common worldwide (as if every country suffered epidemics of paralytic forms)

Anatomy

wrong statement about parkinson's:  
1-cerebral cortex is disinhibited <<<  
2-thalamic activity decreases  
3-loss of dopaminergic excitation of the striatum  
4-increased activity of the subthalamic nucleus

whats correct about dorsal spinocerebellar tract:

- 1-contains 2nd order neurons from clark's nucleus that originate from the lower limbs <<<
- 2-contains neurons that originate from the upper limbs
- 3-contains neurons that originate from the trunk
- 4-...
- 5-none of the above

which receptor senses the strength of a contraction:

- 1-golgi tendon organ <<<
- 2-nuclear chain
- 3-nuclear bag
- 4-
- 5-

wrong statement:

- 1- the higher centers control muscle tone mainly via the alpha motor neurons
- 2-muscle spindles inactivate as a result of muscle contraction and shortening <<<

Pharma

mismatched drug with the side effect:

cisplatin>>strong myelosuppresion

mismatched MOA..acyclovir.. Inhibit thymidylate kinase

mismatched side effect... Acyclovir... Bone marrow suppression

one of these drugs is used with actinomycin for treatment of wilm's tumor:

vincristine

Ganciclovir combination treatment for CMV retinitis ... Foscarnet

- true statement: we give folinic acid to a patient who's taking methotrexate!

wrong statement:

Neoadjuvant therapy is given after surgery to avoid relapse of the tumor

L-Asparaginase is added in combination with both prednisone and vancristine for the induction of childhood ALL

correct: drug with the mechanism of action >> taxol „inhibits de-polartzation

choose the correct:

- a- after chemotherapy treatment, the immune system helps mopping-up the remnants of the primary tumor.

b- chemotherapy curenass rate is 50%

...

e-none of the above

i think the answer is "none "E""

which of the following is not still approved but has a potential to be used to prevent, reduce, or delay skeletal complications in cancer patients:  
bisphosphonate

which of the following is used in RSV infections:

ribavirin

\*\*وَمَا تَوْفِيقِي إِلَّا بِاللَّهِ عَلَيْهِ تَوَكُّلْتُ وَإِلَيْهِ أُنِيبُ \*\*