Pharmacology

- 1- The best drug for treating diarrhea among these is Loperamide
- 2- A drug that can be used in status epilipticus Diazepam
- 3- Correct statement Triazolam hypnotic dose will more probably cause tolerance than the anxiolytic dose
- 4- A good pharmacological decision Methadone use for severe pain irresponsive to morphine
- 5- A boy came to the emergency with respiratory depression, miosis and constipation after taking a large dose of a drug, the best drug to be used to decrease this effect Naloxone

Physiology

- 6- True about Pontine RST and Medullary RST both project mainly to the ipsilateral part of the body
- 7- The extra-pyramidal pathway covering almost all of the muscles of the body reticulospinal tract
- 8- True about motor cortex it is connected to other motor regions like the putamen, red nucleus and the cerebellum
- 9- An MRI showing a tumor in the paravermis of the anterior lobe of the cerebellum, all following symptoms exist except vertigo and nystagmus
- 10- Not associated with PCML damage allodynia
- 11- A woman with only lost pain sensation in her hands, site of legion cervical region of the spinal cord
- 12- A woman suffering difficulty walking, during testing she kept falling to the left side of her body and her arm movements were coordinated, the most probable site of the lesion is the left lateral vestibulospinal tract
- 13- A man who was stabbed in the nick in a fight, the knife passed between vertebrae C5 and C6 and cut the right half of the spinal cord, what is a correct manifestation loss of all sensations innervated by the C6 segment of the spinal cord in the right side
- 14- Which syndrome may cause loss of olfaction Foster-Kennedy syndrome
- 15- A patient with left hand rest tremor, shuffling gait and difficulty in standing after taking a seat, a lesion In this can cause such a lesion substansia nigra
- 16- A patient with ascending weakness in his right lower limb due to an extramedullary tumor affecting the the cord lateraly from behind the denticulate ligament, what would be the first manifestation ataxia in the ipsilateral lower limb
- 17- True about hypocalcemia is associated with increased skeletal muscle excitability
- 18- The dermatome for sensation from the knee L3, L4
- 19- Patient diagnosed with cerebellum, a symptom he has hypotonia

Anatomy

- 20- Wrong statement –ML projects to the thalamus through VPM (removed)
- 21- Wrong about motor cortex connected to ipsilateral body
- 22- Wrong combination activation of gamma motor neuron leads to faster muscle contraction (maybe)
- 23- The cause of spasticity in spinal cord lesions is loss of medullary reticulospinal tract

- 24- A patient unable to move the left eye out and below and spastic hemiplegia in the right half of the body, obstruction is most likely in posterior cerebral artery (removed)
- 25- Wrong about pain connected only to laminae I and V
- 26- Wrong combination forgot
- 27- Wrong about the eye contraction of ciliary muscle makes the lens thinner
- 28- Wrong statement superior olivary nucleus is the only auditory nucleus that doesn't receive input from both ears
- 29- Wrong about eye beta small ganglionic cells show center-surround activation
- 30- Wrong about MLF if right one is lost, when asked to look left, left eye cannot abduct
- 31- Wrong about occulomotor lesion mild ptosis
- 32- Wrong about a lesion to the left posterior limb of the internal capsule mouth deviates to the right
- 33- Wrong about basal ganglia when a new task is learned with skill, motor loop has decreased activity
- 34- Wrong about Parkinson's disease underactive GPi
- 35- Wrong about cerebellum output causes only inhibition of agonist muscle at the end of movement
- 36- Wrong statement intermittent crudication is an example of visceral pain

Microbiology

- 37- Wrong statement toxoplasma is tissue specific
- 38- Wrong about N. meningetidis resistant to dryness
- 39- True HSV 2 is harder to diagnose due to absence of genital infection
- 40- A patient with CJD, wrong his survival median is 14 months
- 41- Not caused by Arboviruses I really don't know
- 42- Only bad thing about OPV compared to IPV rarely can cause paralytic poliomyelitis

Pathology

- 43- Most common brain malformation posterior NT defect (apparently the doctor meant CNS malformations and not brain)
- 44- Wrong about brain herniation cingulate gyrus herniates in transtentorial herniations
- 45- Wrong combination amyloid is associated with MS
- 46- True about amyloid proteins that share the same physical structure of an unbranched fibrillar protein
- 47- Wrong about MS it affects both peripheral and central nerves

Biochemistry

- 48- Wrong about catecholamine synthesis dopamine and norepinephrine have vesical synthesis
- 49- Pedigree for color blindness C (X-recessive)

Lab

1- Frontal section at body of lateral ventricle – wrong – you can see two parts of the limbic system

- 2- Axial section at body of lateral ventricle with infarction in corona radiata what happens 1,2,4 (contralateral hemiplegia, hemiface, temporary hemianesthesia)
- 3- Angle axial section wrong you can see the body of caudate
- 4- Angle axial section pointing at striatum true in Parkinson's b and c (according to the doctor)
- 5- Image of brainstem pointing at middle cerebellar peduncle true none
- 6- Section through cerebellum pointing at dentate nucleus true all
- 7- Frontal MRI pointing at occipital lobe and cerebellum wrong both receive blood from posterior cerebral artery
- 8- A patient with intention tremor wrong lesion accompanied by paresis and paralysis
- 9- A patient with upper limbs atrophy and paralysis and areflexia and lower limbs hyperreflexia and spasticity lesion at lower cervical region
- 10- ICA angiogram wrong embolus in anterior cerebral artery is more common than in middle
- 11- Sagittal MRI showing large pituitary tumor this causes bitemporal hemianopia
- 12- A patient with marked ptosis and paralysis of medial rectus in the right eye, with normal movement of the other eye lesion at right occulomotor
- 13- A patient unable to close his left eye completely and mouth deviated to the right upon smiling lesion at 1 (left facial)
- 14- An X-ray of the lower lumbar spine wrong posterolateral desk prolapse between L4 and L5 usually affects L4 root
- 15- Picture of toe position test to perceive the position of the toe we don't need gracile nucleus