Final CNS 1

**Physio:

1. MRI→ thromboembolic
2. Huntington disease → affect caudate
3. Allodenia →sense of pain from non-painful stimuli
4. Migraine
5. Pontine hemorrhage (patient 60-year old with hypertension and decerebrate position)
6. Willinberg syndrome
7. Babinski wrong → cerebral lesion
8. Dysartheria → basal ganglia
9. Question about Fredrich ataxia
10. Lesion (case) → loss of pain and temp. on the left side ++ UMNL on the right side ++loss of proprioception on the right side
11. Internal capsule injury → entire body with face
12. Amygdale removed (wrong) → being fearful
13. Lateral hypothalamus → eating + drinking
14. Question about Tourette's syndrome
15. Syrngiomyelia → dissociation loss of pain
16. 1b inhibit substantia gelatinosa .. ?
17. Cerebellar lesion (wrong) → contralateral hypotonia
18. Stretch reflex (wrong) → responsible for sudden tendinous jerkiness ?
19. Question about amorphpsynthesis (non-dominant lobe)
20. Main diagnosis for brain death → PCO_2 = 60 mmHg

**Pharma:

I. Wrong side effect: Acyclovir= Bone Marrow depression
II. Prednisolone (acute leukemia) → Vincristine
III. Amantadine (wrong) → influenza A + B
IV. Foscarnet → HSV1 is resistant to acyclovir
V. Wrong combination → blue finger (or nail figers)
VI. 5FU + befuxizimab → colorectal cancer
VII. Mitoxantrone → cardiac toxicity
VIII. Actinomycin → RNA polymerase
IX. Actinomycin → wilm's ???
X. Resistance to cancer → Heterogenisity
XI. Methatroxate → Ca++ levo... ?

**Parasites:

I. T.gondii → oocytic cyst
II. Amastigoide in reticular endothelial system

**Dr.Faraj:

A. Intention tremor (wrong) → middle cereblral peduncle
B. 9-year-old ataxic kid → flocculonodular lobe
C. Directly on nucleus → purkinje cells
D. Excited by cortex → caudate
E. A lesion ... → deviation of tongue to the left w when protrudec
F. Reticulospinal affect all except → fingers
G. Stretch reflex maintains length

H. Referred pain (wrong) → sth about pain in diaphragm
I. A question about fast and slow pain
J. A question about Parkinson and Huntington → All of the above
K. Wrong → dopamine inhibits striatum pallidus
L. Parkinson (wrong) → increase VC and VA firing
M. Hemisection → more than one of the above
N. Major part of basal ganglia in both direct and indirect pathways→ G.P internal segments
O. Positive heal-shin test (wrong) → mainly posterior lobe (cerebellar) lesion

Best Of Luck ☺ ☺ ☺

Study Well ☺ ☺

5aled 7ajjir & Mohammad Al Faqih ☺

Neuro I:

Micro:

- Not true about cysticercosis:
  Hydatid cyst
- Human can acquire toxoplasmosis by:
  oocyte + cyst
- True about toxoplasmosis:
  1° host is canine.
- Not caused by EBV:
  Retinal detachment
- Not true about WNV:
  There could be premorbidities before infection
- Syncytium and necrotising vasculitis by Nipah virus.
- Not in post polio syndrome:
  Spastic paralysis recrudescence.
- Not true about Rabies:
  Transmission only by lick or bite of animal.
- Not true about Prions:
  accumulate in same place in different diseases.
- Not true about polio:
  Paralytic in areas of poor hygiene.

Anatomy:

- Not true about Chorea and (Both r) Diseases in striatum.
- Pain and tempt. are lost in both sides at T_4-T_8 / what's the lesion?
  Destruction of T_4-T_8 centrally in the SC
- what happens if a lesion occurs b/n ant. & lat. columns of white matter?
  loss of pain and tempt. at first
- * At a high post. col. lesion, proprioception is lost only in UL.
- * Gracile nucleus doesn't include position sense unlike cuneate nucleus.

⇒ Only 1st statement is correct.

- Not true about bladder:
  PD + MS cause urge incontinence because of the facilitation of Bladder funxn by frontal cortex and Basalganglia
- Striatum NT that causes facilitation of thalamus:
  Inhibitory GABAergic.
- Hypotonia and dysmetria on rt arm:
  rt. Cl lesion

Neuro

- It. 3rd cranial n. damage and rt. hemiplegia:
  It. mesencephalon lesion.
- Most involved in prox. and axial tone:
  Pontine reticulospinal tract
- Not involved in axial ms. or posture:
  Rubrospinal.
- Not true combination:
  Steppage gait → sensory ataxia.
- Dorsal col. is different than anterolat. in:
  more localization
- UMNL:
  Weakness, spasticity, abn. reflexes, hyperflexia
- Not true combination:
  Protopathic sensation → ↑ threshold.
- Lesion that causes atrophy dff LL + incontinence and flaccid paralysis:
  Lumbosacral.

Biochem:

- True about vision:
  cGMP increases when transducin activated
- Cones:
  for color vision.
- not true about Huntington dis → AR.
- In familial alzheimer → Presinilin 1+2

Pharma:

- The reason for chemotherapy failure:
  Drug resistance the tumor develops.
- Not true:
  Taxol is more toxic than vincristine
- About side effects, which is not true
  none of the above.
- Not true:
  HER-2 inhibited by cetuximab.
- Drug that revolutionized ovarian and testicular cancer Ht:
  Cisplatin.
- True: Deregulation of apoptosis by tumor
- True: G_0 cells are resistant to all types of anticancer drugs.
- True: Ribonucleotide reductase is inhibited by Thioguanine.

Physio:

- Not an explanation why tone is canceled by rigidity → clasp knife.
- Best to study brainstem funxns: Anencephaly
- Lat. part of CT doesn't affect: spine, hip...
- If a lesion in ventral corticosp. tract:
  Axial ms's affected

I

- of 1st lesions in alzheimer:
  Hippocampus -
- Not of amygdala funxns:
  Memory storage
- Not true.
  Periventricular hippocampus associated w. th pleasure.
- A test for inverse myotatic reflx:
  Clonus.
- Not caused by CI' lesion:
  Dysphagia.
- Not funxn of premotor cortex:
  facial recognition.
- Chorea:
  moves are flicting ...
- Vertigo, nystagmus, cr. n. , hemiparesis / Lesion in?
  Brain stem.
- Acute lesion of UMNL, which is not true
  tone increased.
- The only inhibitory of tone:
  Medullary reticulosp.

Biochem

① SAM use in all rxn except

ⓐ N-methyl transferase

ⓑ Comt

ⓒ deamination

ⓓ methylation of phosphatidylethanolamine

Neurol

② starvation lead to increase in

ⓐ Glut-1

ⓑ Glut-3

ⓒ monocarboxilic acid.

Pts

① which cause chronic meningitis & brain abscess

ⓑ cryptococcus neu

7 physio
13 Anat.
C Bio.
E Micro.
CO
1E,0

② wrong in N. meningitis

ⓐ gram -ve

ⓑ Neurotoxin

ⓒ oligopolysaccaride

Toxoplasma gaudii (wrong)

ⓒ Sexual ... inter.

(a) spontaneous release from prejunctional terminal of one quantum

Nero I

(b) have trophic influence in NMJ

(c) it amplitude give idea about the amount of ach in vesicles

(d) frequency indication of activity of cholinestrerease enzyme

(e) use as tool for synth. drug.

about G protien choose wrong

has 2 component binding & Ionophoric

(b) opening ion channel for proling time

(c) activate cGMP in postsynaptic

(d) ~ cAMP ~ ~ —

(e) ~ gene transcription ~ —

about dendrite choose true

(a) most dendrite can transmit AP

(b) ~ ~ cannot ~ EP

(c) has decrental conduction

(4) about nemonal pool circuit ch
True

(a) convergance → amplification
(b) parallel after discharge →
control Ruthem

→ (c) parallel after discharge & Reverberating
circuits → intellectuall
Thinking

(5) about pain transmission & suppression
choose wrong
(a) glutamate
(b) serotinin
→ (c) ach

(6) about reffered pain choose true
(a) role of convergance

(7) vit B12 diffincy

MED Neuro I

- Dr.Faraj
- The wrong in knee flexor reflex : ms. Spindle inhibits the agonist
- Gamma activation : causes shortening in intrafusal fibers only in case of dorsal root cutting
- Hyperreflexia : to be considered as pathological ,should be associated with babinski sign
- The wrong statement : + rombergs sign is associated with cerebellar ataxia
- Lateral corticao spinal tract, the wrong is : gives 25% cervical
- A lesion in the left internal capsule + left area 8 : right hemiplegia + eyes go to the left
- The wrong statement about bre ing effect : sends inhibitory signals only
- Meningioma in falx cerebri : cause paraplegia + incontinence
- The wrong stamen : Recurrent inhibition for gamma
- Premotor cortex : affects medial motor system
- The early signs of ms. Degeneration is : fasiculations
- The wrong combination : Thalamus → Sterognosis
- About spinocerebellum correct : compare intended to actual
- Spasticity : loss of inhibition by (pyramidal loss)
- Dr.Eman
- All the following work on DMNA receptor except : GABA
- Lesion in area 5+7 : Amorphosynthesis
- The wrong about ,Motor nerve conduction velocity : antidromic
- The wrong statement is : we use penicillin to treat sensory ataxia
- Vit b12 deficiency affects : dorsal column and lateral column
- The wrong statement is : serotonin causes exitotoxicity
- Lidocane : blocks Na channels
- The wrong about ,Loss of all sensations in contralateral part of the face + body : right lower medulla lesion
- Dissociated sensory loss in : syringomelia
- The wrong about saddle sensory loss is : intramedullary lesion
- Vit B6 deficiency causes : Seizures
- The drug that increases the half decay time in MEPP : for myasthenia gravis
- The wrong statement is : max receptor pressure is 10mv
- All are tonic receptors except : semicircular canals of the ear fovm
- The wrong about the fibers to suppress pain : make synapse the same 1ry afferantas
- The wrong statement of the following is : subconscious proprioception by DC_UL
- Dr.3asem
- What is the cause of meningitis associated with skin rash : N.meningitidis
- What is the wrong about S.Pneomnia : susceptible to penicillin in Jordan
- Dr.Azmi
- What is the wrong statement : meningitis is almost always associated with systemic manifestations
- What is the wrong about encephalitis : direct or indirect cause focal or diffuse disease
- What is the wrong about meningitis : brain biopsy is routinely taken in diagnosis

- Biochem
- SNARE : its job is attachment to presynaptic membrane
- Histidine to histamine rxn : requires pyridoxal phosphate
- Cant cross BBB : Glutamate
- Dopamine B-hydroxylase : requires O2 + Ascorpate (vit C)

Neuro I

Physio

1. Anencephalo → Modell for Brain stem
2. flicking, Brief → movment in Hunntington
3. Brain stem → vertigo Nystagmus ipsilat. C. Palsic
4. clasp → inverse stretch
5. clonus →
6. Dysphasia → Cerebellum except
7. Dyslexia → Weirniks (Vissual A.A)
8. Lat. medial reticulo spinal →
9. Hippocampus →
10. ? Control axial, hips → Dentate → except: Premotor Corte
11. Pace recognition
12. periventricular → Rage incorrect
13. ~~[illegible]~~ Amygdal memory → true About Amygdalla
14. ~~[illegible]~~ → stroke to Pyramidal
15. ~~[illegible]~~ temp in skin → All Related to Spinal Cord except
10

حسّان

A+B

Hydatid cyst

wide tissue range

Biocha

① [illegible] 1 + 2

② AR

③ ↑ CGMP

④ Cones ⇒ colo.

مزج

① Nomina V

② Rt. cerebellar

③ Only (A) is correct

④ protopathic ⇒ low thresh

⑤ stippage [illegible]

⑥ central canal

⑦ cold, thermal in toes

⑧ Lt. mesenceph.

⑨ inhibitory GABA [illegible]

⑩ pontine reticulospinal

⑪ 1°ry patho in strim

⑫ wkness, spasticity, hyp[illegible] abnormal reflex

⑬ rubro spinal

⑭ lumbo cornal

⑮ B [illegible]

⑯ [illegible]

pharma

① Go[illegible] ⇒ [illegible] inhib

② noneof the above

③ cisplatin

④ taxol more toxic

⑤ All ([illegible])

⑥ Dereal[illegible] [illegible]

⑦ [illegible]

⑧ Hypoxia: [illegible] cell [illegible]

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① preexisting [illegible]

② same site of diff. species

③ [illegible]

④ EPV - retinal necrosis

⑤ [illegible] transmission by bees

⑥ [illegible]