

Which of the following cells are present in the Purkinje cell layer of the cerebellar cortex?

- a) Basket cells
- b) Candelabrum cells ✓
- c) Stellate cells
- d) Granule cells

Physical barrier of the CNS is mainly formed by:

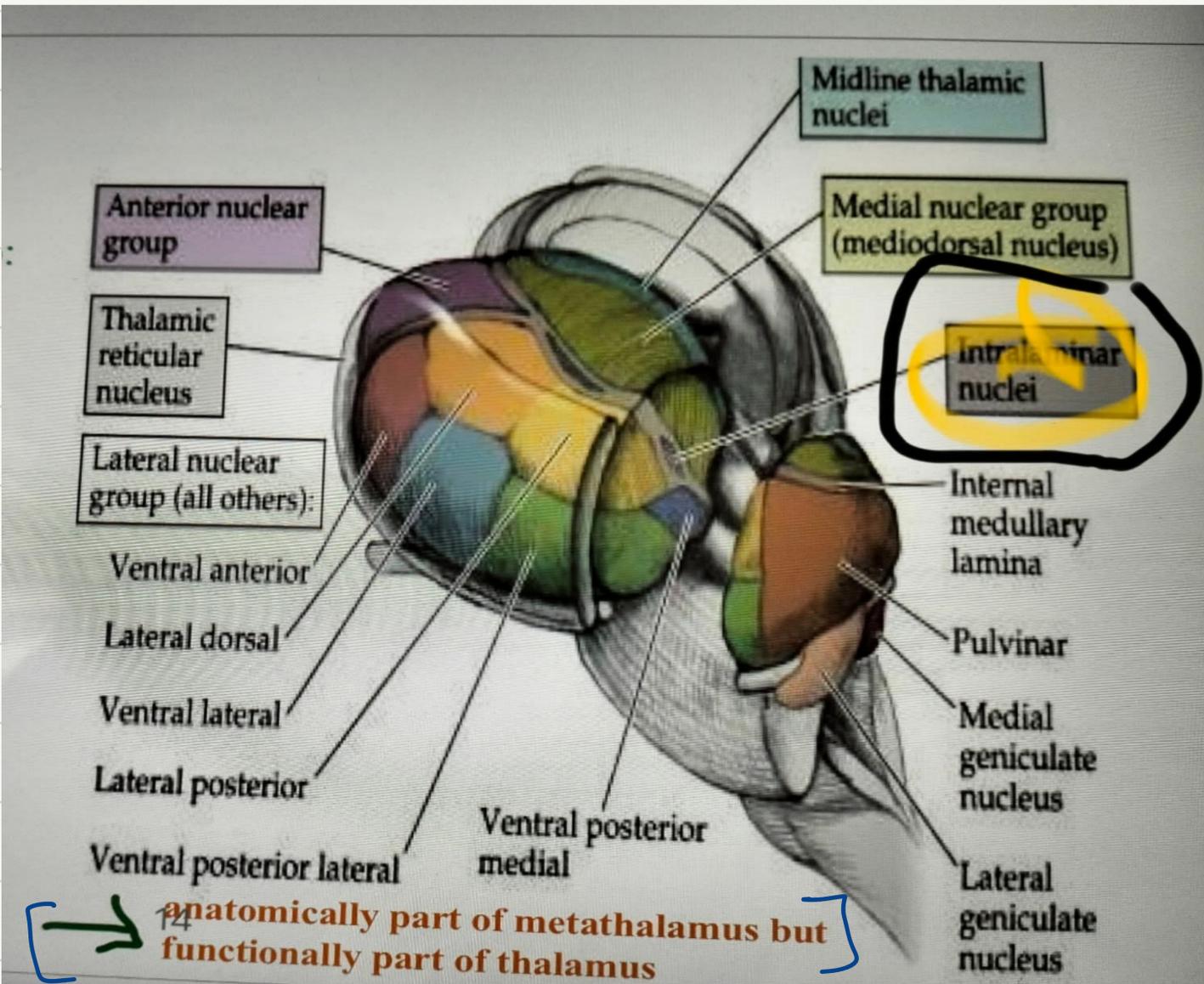
- a) Pia mater, astrocytic end-feet, and endothelial tight junctions ✓
- b) Arachnoid mater, ependymal cells, and oligodendrocytes
- c) Pia mater, microglia, and choroid plexus epithelium
- d) Endothelial cells only

Tanycytes are specialized ependymal cells present mainly in the wall of the:

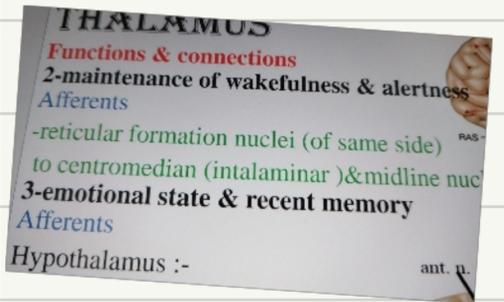
- a) Lateral ventricle
- b) 3rd ventricle ✓
- c) 4th ventricle
- d) Cerebral aqueduct

External granular layer:

- A) Granule cells and large pyramidal cells
- B) Granule cells and small pyramidal cells ✓
- C) Granule cells and medium pyramidal cells



دكتور ابو المعاطي جاب هاي الصورة بالنظري



↳ Reticular Formation

كان الجواب

Floor boundaries of the central part of lateral ventricle EXCEPT:

- A) body of fornix
- B) stria terminalis
- C) Thalamostriate vein
- D) Body of caudate nucleus
- E) body of corpus callosum ✓

Syringomyelia is most commonly associated with:

- a) Chiari I malformation ✓
- b) Dandy–Walker malformation
- c) Arnold–Chiari II malformation
- d) Holoprosencephaly

The enzyme responsible for the conversion of dopamine into norepinephrine is:

- a) Tyrosine hydroxylase
- b) DOPA decarboxylase
- c) Dopamine  $\beta$ -hydroxylase ✓
- d) Phenylethanolamine-N-methyltransferase (PNMT)

all of the following about BBB is correct EXCEPT:

- A) non fenestrated endothelial cells
- B) Astrocytes end processes play role in BBB development
- C) pericytes play role in Gap junction<<<<
- D) continuous basement membrane

Which cerebral artery territory is most frequently affected by embolic infarction?

- a) Anterior cerebral artery (ACA)
- b) Middle cerebral artery (MCA) ✓ (territory)
- c) Posterior cerebral artery (PCA)
- d) Basilar artery

Which of the following is a known adverse effect of barbiturates in children?

- a) Gingival hyperplasia
- b) Behavioral changes ✓
- c) Extrapyramidal symptoms
- d) Stevens–Johnson syndrome

A patient presents with trigeminal neuralgia. Which of the following is considered the first-line treatment?

- a) Gabapentin
- b) Carbamazepine ✓
- c) Phenytoin
- d) Amitriptyline

الردود على السؤال →

لا الجواب  
capsaicin بسؤال  
ال trigeminal  
لانه المريض عمره

Which of the following is NOT a central anti-muscarinic drug used in Parkinson's disease?

- a) Benzhexol
- b) Orphenadrine
- c) Benztropine
- d) Procyclidine
- e) Metoclopramide

A patient started on antipsychotic medication develops acute dystonia with involuntary winking and oculogyric crisis. Which of the following drugs is the most likely cause?

- a) Haloperidol
- b) Clozapine
- c) Risperidone
- d) Olanzapine
- e) Quetiapine

Which of the following is NOT an adverse effect of phenothiazines?

- a) Extrapyramidal symptoms
- b) Hyperprolactinemia
- c) Hypotension
- d) Increase infection
- e) Sedation

Which of the following brain structures drives sexual behavior?

- a) Cerebellum
- b) Medulla oblongata
- c) Basal ganglia
- d) Limbic cortex
- e) Thalamus

The correct answer is:

Deep and pain visceral have dull aching

The trigeminal nerve emerges mainly from the:

- a) Midbrain
- b) Pons
- c) Medulla
- d) Spinal cord

Which of the following about pain receptors is FALSE?

- a) They are free nerve endings.
- b) They are stimulated by tissue damage.
- c) They can be stimulated by thermal stimuli.
- d) They adapt rapidly to continuous stimuli

لمش هنا تحديد  
من السؤال وشو بيده  
بسي بيده الخاطا عن ال  
Pain

Which of the following nuclei is the primary source of serotonin involved in descending pain modulation?

- a) Locus coeruleus
- b) Raphe Magnus Nucleus
- c) Substantia nigra
- d) Ventral tegmental area
- e) Nucleus accumbens

4-The 5th sacral and coccygeal nerves leave the canal through the sacral hiatus

Which of the following is the largest nucleus in the caudal medulla?

- a) Gracile nucleus
- b) Cuneate nucleus
- c) Trigeminal nucleus
- d) Inferior olivary nucleus

A coronal section through the frontal lobes reveals extensive contusions involving the inferior gyri. This was a contracoup injury from a fall in the bathtub by an elderly person. Where is the impact?

Occipital <<<< غالباً  
Vertex

Which of the following cranial nerve nuclei is NOT located in the superior colliculus (midbrain)?

- a) Oculomotor nucleus (III)
- b) Trochlear nucleus (IV)
- c) Vagus nucleus (X)
- d) None of the above

في سؤال كان بده الخطأ

Parenchymal hemorrhage most common in frontal lobe

From pyramidal tract :

Corticospinal

## Tuberculosis associated with Pellicle formation

في السؤال كان به الهمج

Damage to the triangular area produces ?

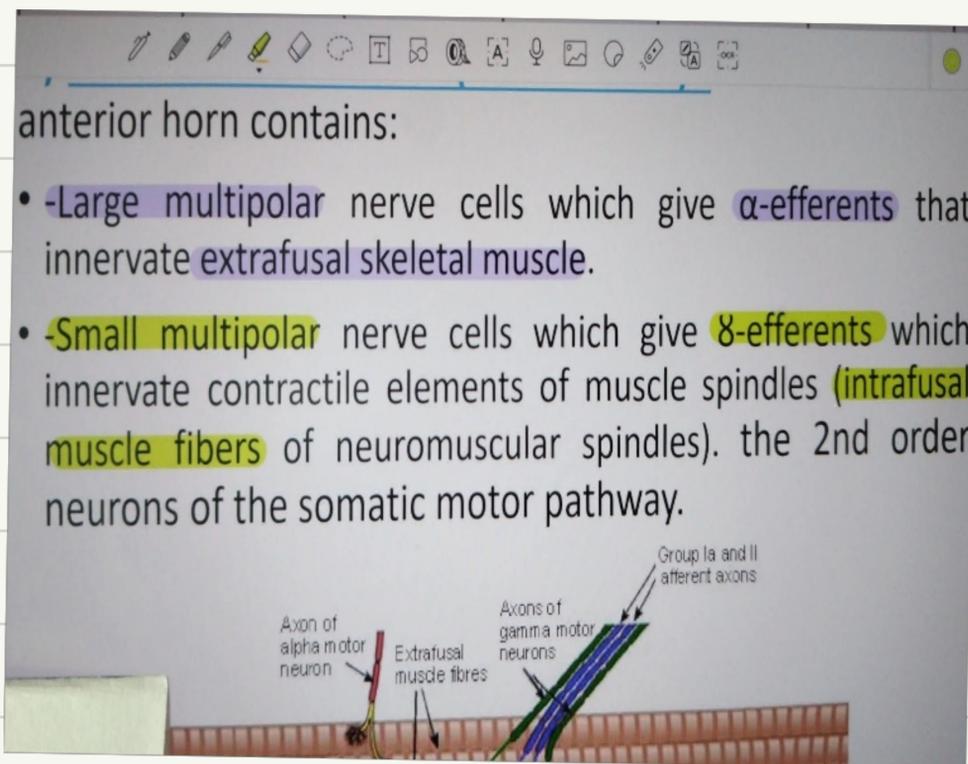
Motor aphasia ✓

Sensory aphasia

loss of taste sensation

Which of the following statements is wrong regarding the Cerebrum ?

Gyrus rectus is supplied by the Middle cerebral artery ✓



one of the following side effects is not caused by Chlorpromazine :

Increased risk of infection ✓

sexual dysfunction

Orthostatic hypotension

DA to NE ?

Dopamine beta hydroxylase

Alpha 2? Inhibitory

Which of the following enzymes converts dopamine to norepinephrine?

Dopamine beta-hydroxylase ✓

Tyrosine hydroxylase

DOPA decarboxylase

Which of the following drugs has a good analgesic and bronchodilatory effect ?

Ketamine ✓

All of the following is true regarding Z compounds EXCEPT ?

Zaleplon is used to treat muscle rigidity ✓

Eszopiclone produces a bitter taste as a side effect

....

What's the most well-known side effect of morphine ?

Respiratory depression ✓

Diarrhea

Hypertension

....

In cerebral cortex most energy utilize in  
Na/k -ATPase pump

مش ذاكره صيغة الجواب بالضبط اتوقع هيك

Which structure connects the pulvinar regions of the thalamus on both sides?

Posterior commissure ✓

Interthalamic adhesion

Anterior commissure

Corpus Callosum

Syringomyelia is associated with ?

Chiari 1 malformation ✓

Dandy-Walker malformation

Chiari 2 malformation

Which of the following is correct regarding muscle spindle:

-Large multipolar cells and small multipolar cells of alpha and gamma efferent supply extrafusal and intrafusal fibers respectively <<<<<

-Large multipolar cells and small multipolar cells of alpha and gamma efferent supply intrafusal and extrafusal respectively

-Large and medium multipolar cells of alpha and gamma supply intrafusal and extrafusal respectively

-Large and medium multipolar cells of alpha and gamma supply extrafusal and intrafusal respectively

Which of the following true about arcuate nuclei:

- It is located posterior to pyramind
- It is in the ventral of open medulla
- It receive internal arcuate fibers
- it located in dorsal part of closed medulla

One of the following is correct about 3rd ventricle

- Derived from mesencephalon
- Derived from diencephalon

One of the following is not attributed by chlorpromazine form these adverse effects :

- Feeling restless
- Risk for infection<<<<<
- Sexual dysfunction
- Postural hypotension
- Dry mouth

contains motor cells that give rise to preganglionic autonomic fibers?

- Anterior Horn of the Cord
- Lateral Horn of the Cord

Valopric acid and warfarin interaction:

- Valopric acid displace warfarin from plasma protein
- Valopric acid increase metabolism of warfarin <<<<<
- Valopric acid decrease warfarin metabolism

Choose incorrect answer

- Insula lies at the bottom of the central sulcus
- insula is taste sensation area
- insula area 43

gyrus rectus supplied by

- Anterior cerebral Artery
- Middle cerebral Artery
- Posterior cerebralArtery

Correct about Middle Cerebral Artery

pass in steam of lateral sulcus

Not associated with cingulum

- isthmus
- hippocampal gyrus ✓
- cingulate gyrus
- ant. perforated substance
- uncus

The infective stage of *Naegleria fowleri*

The pathogenic stage of *Naegleria fowleri*:

- Trophozoite
- Flagellated form
- Cyst
- Cyst, flagellated, trophozoite

اجا في الفاينل

اجا في الميد  
لنفس الخيارات

Which made a physical barrier separating CNS tissue from CSF in the subarachnoid space ?

- pia mater and the layer of astrocytic end feet with its basement membrane ✓

Which cranial nerve loops around the abducent (VI) nerve nucleus before exiting the brainstem?

- a) Hypoglossal (XII)
- b) Vagus (X)
- c) Facial (VII) ✓
- d) Trigeminal (V)
- e) Glossopharyngeal (IX)

Correct about Ventral spinothalamic tract

- fine touch
- pain and temperature
- crossed to opposite side ✓
- end in PMVN

One of the following is pyramidal tract

- Sulcomarginal tract
- Corticospinal tract ✓
- Rubrospinal tract
- Tectospinal tract
- Olivospinal tract

Correct about Substantia Nigra

- pale pigmented motor nucleus
- neuromelanin pigment very little in birth increasing during childhood
- Zona Compacta rich in dopamine

Which Interneuron cell present in Purkinje cell layer

- Candelabrum cells
- Granule cells
- Purkinje cells

جاب case  
وكان كاتب لقينا

+ve gram stain rod bacteria

How this bacteria transmitted?

Food contamination

Injury of one side of cerebellum, manifestation will be :

- contralateral
- bilateral
- ipsilateral

In Dynamic Stretch Reflex; receptor is

- Nuclear bag

One of the following correct regarding Tactile discrimination →

مش كثير متأكد  
منه

-ability to distinguish 2 touch stimuli as 2 separate points of touch when both eyes are opened

كان في خيار عن ال threshold وبحكوا هو الصح

The external granular layer consists of:

- A)granule and small pyramidal
- B)granule and medium pyramidal
- C)granule and large pyramidal
- D)granule and different sizes of pyramidal

Answer: A

One of the following is not used for diagnose of Cryptococcus neoformans

- India ink
- urease test
- Culture on non-nutrient agar seeded with E. coli
- PCR
- Dipstick test

