Abnormalities

Lec 2:

Somatosensory association area: If damaged→Amorphosynthesis

● vísual association area: If damaged→word blindness.

● Auditory association area: If damaged→word deafness.

● Prefrontal association area: If damaged→ became distracted, socially disinhibited, lost the ability to prognosticate, lost the ability to do mathematical equations and make complex movements, acquired bizarre behavior.

● Area for recognition of faces and naming of objects : If damaged → Prosopagnosia (inability to recognize faces).

● Wernicke's area: If damaged→ dementia because it's also related to memory + sensory aphasia (receptive aphasia) .

● Broca's area: If damaged→ motor aphasía (expressíve aphasía)

● If both Wernicke's and Broca's areas are damaged→global aphasia

Lec 3:

 \blacksquare secondary somatosensory association :If damaged \rightarrow amorphosynthesis

lacksim secondary visual: If damagedightarrow word blindness .

Corpus Callosum : interruption of these fibers can lead to bizarre types of anomalies.

● Prefrontal Association Area: If damaged→ causes an inability to keep tract of simultaneous bits of information, easily distracted.

Wernicke's area: Destruction of the visual and auditory association areas results in an inability to understand the written or spoken word ● cerebral cortex: If damaged→ the consciousness and awareness is DECREASED (you can still think); you lose the function of knowing the deep meaning behind words

● thalamus : If damaged→retrograde amnesía or the inability to recall stored experiences.

Lec 5+6+7:

Cerebellum: If damaged→
1) Ataxia and intention trem:failure to predict motor movement, patients will overshoot
intended target, past pointing
2) Dysequilbrium- ataxic (staggering) gait (drunken gait)
3) Dysdiadochokinesia (Adiadochokinesia):failure of orderly progression of

movement.

4) Dysarthria: failure of orderly progression in vocalization.

5)Cerebellar nystagmus: intention tremor of the eyes when trying to fix on object.

 $igodoldsymbol{\Theta}$ basal ganglia: If damaged ightarrow initiation is damaged, movement will be slowed

● Globus pallidus: If damaged→ athetosis - spontaneous writhing (snakelike) movements of the hand, arm, neck, and face

Putamen: If damaged \rightarrow chorea – involuntary flicking movements of the hands, face, and shoulders.

● Substantia nigra: If damaged→Parkinson's disease (rigidity, resting tremor, dyskinesia or akinesia).

Subthalamus: hemiballismus - sudden flailing movements of the entire limb Caudate nucleus and Putamen :huntington's chorea - loss of GABA containing neurons to globus pallidus and substantia nigra

Lec 8:

Reticular Activation System: If destroyed \rightarrow Coma (unresponsive to stimuli)

Decerebrate rigidity- removal of the cortical control over the medullary reticulospinal keeps pontine reticulospinal un-checked leads to hyperactivity of anti-gravity muscles

● damage in the vestibular nuclei or utricles or saccule : → will lead to vestibular Nystagmus which is inability to fix your eyes

Aya Aljbour