Introductory Clinical Appointment Faculty of Medicine Peradeniya

Examination of the Higher Functions, Cranial Nerves, Basal Ganglia & Cerebellar Functions

	What to do	What is expected		Mistak es +	Done correct
Preparation – Torch, tape, opthalmoscope, knee		Understand what is expected from you			
hammer, tooth pick, cotton wool, Tuning fork,		know the name, age, weight of the patient, develop			r
Self in	ntroduction	rapport			i
	General observations	Dysmorphic child, Neurocutaneus manifestations,			
ons		development stage , head size, mobility , behaviour			r
ctic	Talk to child and mother –	Understand higher functions, behavior, relationships			
fun	orientation in time place and person	,Intelligence, amnesia, dress			i
Higher functions	Evaluate speech and language	communication and speech - aphasia, dysphasia			
lig	V,VII,X,XII & cortical functions	,Dysarthria, and dysphonia			i
	Agraphesthesia , extinction & Astereognosia	Sensory cortex of parietal lobe			
1	Testing smell – Patency of nostrils , use soap	Test olfactory nerve (I)			
	or coffee , patient close eyes				i
	Visual acuity and color vision	Use Snellen chart or suitable alternative and			
a)		Ischihara chart			
nerve	Visual field by confrontation method	Detect visual field defects			
ne	Check pupils – size shape position and	Afferent pupilory defect (ADP) Sympathetic lesions			
optic	reaction to light and accommodation,	constrict even in dark or parasympathetic lesions			i
pt	swinging light test	dilate even in light			
	Fundoscopy – optic disk, physiological cup,	Funds – atrophy, Pailooedema			i
2.	retinal vessels, fovea	Retina – Hemorrhages, exudates, and blood vessels,			i
		Roth's spots,,			
III,	Look for ptosis Sympathetic or	Sympathetic – mullers muscle			i
IV,	parasympathetic (CN - III)	Cranial nerve III – levetor palpabrea			
VI	Eye movements - III,IV and VI,	"H" movements ,squints, diplopia , nystagmus			i
	Gaze (conjugate) or disconjugate palsy	(vertical or horizontal)			
V	Muscles of mastication motor component of	Asymmetry of the prominence of muscles on one			i
	5 th nerve and sensation ,Corneal reflex	side, Absence of sensation			
VII	Facial nerve – Frowning fore head, closing	Decide upper motor or lower motor, bells sign , look			i
	eyes, blowing cheek, say eee, hyper acusis	for corneal dryness			
VIII	Crude assessment of hearing -	Screen for hearing problem			.
, Tuning fork - rinners & webers test -		Decide conduction or neural defect			ı
IX &	•	. , ,			, 7
	Throat and palatal movements, gag reflex	palatal movements for X			
ΧI	•	pheral Vs central (Central lesion causes ipsi lateral			.
	SCM and contra lateral trepesius weakness)				
XII	Ask the patient to stick out the tongue press	Muscles of tongue, deviation (XII)			.
the tongue against the cheek , check taste		Inspect for fasciculation and wasting.			
Term	inate help patient to dress , thanking	Examination was made possible because of patients			.
		cooperation			
		Higher functions and cranial nerves			.
Prese	entation	What is the anatomical diagnosis			

Introductory Clinical Appointment Faculty of Medicine Peradeniya

	Structure	symptoms	Signs	Investigation
	F I I . I			
	Frontal lobe			
	Parietal lobe- domi			
	Parietal lobe -non d			
TEX	Temporal lobe			
CORTEX				
	Occipital lobe			
	Olfactory nerve			
	Optic nerve and tracts			
	Cortico spinal and			
Ë	spino thalamic tracts			
Mid brain	Cranial nerve III			
Σ	0 11 11			
	Cranial nerve IV			
	Cortico spinal and			
	spino thalamic tracts			
	Cranial nerve V			
Pons	Consideration			
Po	Cranial nerve VI			
	Cranial nerve VII			
	Cranial nerve VIII			
	Cortico spinal and			
	spino thalamic tracts			
	Cranial nerve - IX			
Medulla	Cranial nerve X			
Me				
	Cranial nerve XI			
	Cranial nerve XII			
	Caraballus			
	Cerebellum			
	Basal Ganglia			

Introductory Clinical Appointment Faculty of Medicine Peradeniya

Structure	Symptoms	Signs
Cortex		
Mid brain and nerves arising from mid brain		
Medulla And nerves arising from medulla		
Cerebellum		
Basal Ganglia		