## **CNS Examination Cheat Sheet** by hjsdhaj via cheatography.com/201639/cs/42699/

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Davas					
Preperation:					
W	Wash Hands	Snellen Chart			
I	Introduce Yourself + Patient's Identity	Pen torch			
Р	Permission	Cotton Wool			
Р	Patient Position + Pain	Opthalmoscope	Only necessary for fundoscopy		
Е	Explaination	Tuning Fork	256Hz or 512Hz		

Patient should be at the same level as the examiner

Cheatography

General Obse	rvations	CN 5 Trigen	ninal	
Check visually	from the end of the bed:	Sensory:		
<ul> <li>Muscle wasti</li> <li>Facial asymn</li> <li>Ptosis</li> </ul>	ng, fasciculaitons, or tremor netry or loss of expression misaligned eyes)	Touch Response	Touch opthalmic, maxillary and mandibular regions of the face with cotton whool, compare sensation on both sides. Show the patient what it feels like first by touching to a central point (chest)	
			Offer to repeat with a pointed object	
CN 1 Olfactory         Changes in taste or smell       Explored with a smell testing         recently?       kit         Tested positive for Covid-19 previously?		Corneal Reflex	Omitted if a lesion is not suspected Touch lateral region of cornea with a damp piece of cotton wool => Bilateral blink response	
		Motor:	Motor:	
CN 2 Optic Visual Acuity	Examined using a Snellen chart or text held at arms length	Muscles of Mastic- ation	of Mastic- lais, and masseter.	
Visual Fields	Examiner and patient close one eye. Examiner moves an object closer to the centre of the midline. Patient remarks when it enters their field of view.		Patient opens mouth, examiner attempts to close it, patient should be able to resist. Patient opens mouth and move jaw from side to side	
Fundoscopy	Not required in DEM2	=> Jaw will deviate to the side of the weak pterygoid.		
Light     Direct light reflex       Reflexes     (Look in the same eye as the light)		CN 7 Facial		
	Consensual light reflex (Look at the opposite eye to the light)	Patient raise eyebrows Patient sque	contraction of the frontalis muscle	
Accomm- odation	Pupils constrict as object is brought closer	eyes tightly	shut thumbs Tests orbicularis oculi.	
Patient should wear glasses if normally worn. Offer to check near, far, central, and colour vision.		Patient smil		
Light Reflexes:  Sensory -> CN2  Motor -> CN3		Patient blow cheeks	<ul> <li>Ps up Checks buccinator muscle</li> <li>If cheeks are pressed lightly by examiner no air should escape</li> </ul>	

Do a quick general inspection of the face before starting, check for drooling, facial asymmetry, etc.

#### CN 3,4,6 Oculomotor, Trochlear, Abducens

**Ocular Movements** 

Patient follows tip of pen in a H
shape
Should be tested to all extremes of
eye movement

## LR<sup>6</sup>SO<sup>4</sup>(3)

Lateral Rectus => CN6

· Eye will not abduct normally, double vision, horizontally displaced

Superior oblique => CN4

• Double vision with oblique displacement of images, left palsy -> occurs when looking to the right, etc.

All other extraocular muscles => CN3

• In full palsy pupil will be dilated and deviate downwards and outwards

Also innervates levator palpebrae superioris => Ptosis in palsy



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CN 8 Vestibulocochlear		CN 11 Accessory	
Simple Hearing Test Weber's	Cover one ear and whisper a number in the other, ask the patient to repeat back to you. Repeat for both ears	Patient shrugs shoulders	Ask the patient to shrug their shoulders using your hands on their shoulders to resist the movement.
Test:	Place the tuning fork in the centre of the patient's forehead and ask if it is louder on one side or the other. Normal => equal loudness on both sides	Sterno- mastoid	Ask the patient to turn their head to each side using your hand on their cheek to resist the movement.
Rinne'sPlace tuning fork on the patient's mastoid process withTest:the prongs perpendicular to the ear, patient shoud identify when they can no longer hear it. Then move the tuning fork in front of their ear. Repeat for both ears		Completing the examination Thank Patient Sanitise hands and equipment Other examinations to consider:	
Rinne's Test: Air conduction > bone conduction = Positive Rinne's Bone conduction > air conduction = Negative Rinne's		<ul> <li>Neurological examination of the limbs</li> <li>Mental state examination</li> </ul>	

#### Weber's Test:

Heard in the midline = Normal

Louder in a ear with a **negative** Rinne's test = Conductive hearing loss

Louder in a ear with a **positive** Rinne's test = Sensorineural hearing loss

### CN 9, 10, 12 Glossopharyngeal, Vagus, Hypoglossal

CN 10 Vagus	Ask patient to perform a loud cough.			
Articulation	Ask patient to say the days of the week.			
Depress tongue with	When patient says "ahh", the soft palate should elevate symmetrically.			
tongue depressor	Will deviate towards the stronger side if palsy.			
Gag Reflex	Not normally tested in a conscious patient			
	Sensory - CN9 Glossopharyngeal Motor - CN10 Vagus			
CN 12 Hypogl- ossal	Ask patient to open mouth, stick out tongue, move tongue from side to side, examiner places hand on patient's cheek and asks patient to press tongue against his hand			

# C

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