

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

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			

### **General Observations**

#### Check visually from the end of the bed:

- Muscle wasting, fasciculaitons, or tremor
- Facial asymmetry or loss of expression
- Ptosis
- Strabismus (misaligned eyes)
- Salivation
- · Obvious discomfort or pain

CN 1 Olfactory	
Changes in taste or smell	Explored with a smell testing
recently?	kit
Tested positive for Covid-19 previous	slv?

CN 2 Optic	
Visual Acuity	Examined using a Snellen chart or text held at arms length
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.
Fundoscopy	Not required in DEM2
Light Reflexes	Direct light reflex (Look in the same eye as the light)  Consensual light reflex (Look at the opposite eye to the light)
Accomm- odation	Pupils constrict as object is brought closer

### Patient should wear glasses if normally worn.

Offer to check near, far, central, and colour vision.

#### Light Reflexes:

- Sensory -> CN2
- Motor -> CN3

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Sensory:	
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
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:	

	cotton wool => Bilateral blink response
Motor:	
Muscles of Mastication	Patient clenches jaw shut, examiner palpates temporlais, and masseter.
	Patient opens mouth, examiner attempts to close it, patient should be able to resist.
	Patient opens mouth and move jaw from side to side => Jaw will deviate to the side of the weak pterygoid.

CN 7 Facial		
Patient raises eyebrows	Symmetrical wrinkling of forehead due to contraction of the frontalis muscle	
Patient squeezes eyes tightly shut	Examiner attempts to open eyes using thumbs  Tests orbicularis oculi.	
	rests ordicularis oculi.	
Patient smiles	Symmetrical smile and equal action of teh orbicularis muscle	
Patient blows up cheeks	Checks buccinator muscle	
	If cheeks are pressed lightly by examiner no air should escape	
Do a quiek general inspection of the face before starting shock for		

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

shane

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



## By **hjsdhaj**

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CN 11 Accessory

Symmetrical

Completing the examination

Sanitise hands and equipment

· Mental state examination

Other examinations to consider: · Neurological examination of the limbs

Ask the patient to shrug their shoulders using your hands on their shoulders to resist the movement.

Ask the patient to turn their head to each side using

your hand on their cheek to resist the movement.

**Patient** 

shrugs shoulders

Sterno-

mastoid

**Thank Patient** 

CN 8 Vestibulocochlear			
Simple Hearing Test	Cover one ear and whisper a number in the other, ask the patient to repeat back to you.  Repeat for both ears		
Weber's 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		
Rinne's Test:	Place tuning fork on the patient's mastoid process with the prongs perpendicular to the ear, patient shoul identify when they can no longer hear it. Then move the tuning fork in front of their ear.		

#### Rinne's Test

Air conduction > bone conduction = Positive Rinne's Bone conduction > air conduction = Negative Rinne's

Repeat for both ears

#### 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

CN 9 10	. 12 Glossopl	harvngaal	Vague	Hypodlossal
CIN 9. IU	. 12 GIUSSUUI	nai viideai.	vauus.	nvoudussai

CN 9, 10, 12 Glossophalyngeal, Vagus, Hypoglossal			
CN 10	Ask patient to perform a loud cough.		
Vagus			
Articulation	Ask patient to say the days of the week.		
Depress	When patient says "ahh", the soft palate should		
tongue	elevate symmetrically.		
with			
tongue	Will deviate towards the stronger side if palsy.		
depressor			
Gag Reflex	Not normally tested in a conscious patient		

Sensory - CN9 Glossopharyngeal

Motor - CN10 Vagus

**CN 12** Ask patient to open mouth, stick out tongue, move tongue from side to side, examiner places hand on Hypoglpatient's cheek and asks patient to press tongue ossal against his hand



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