

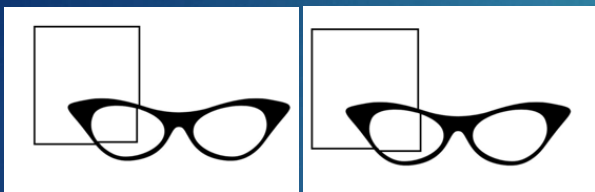
MRCPCH revision: cranial nerves & eye exam

S Constantinou (with thanks to G Yeldham)

- ▶ Intro
- ▶ Top tips
- ▶ Structure of examination
- ▶ WIPER
- ▶ General inspection
 - Glasses, Snellen chart, walking aids
 - Symmetrical muscle bulk, hemiplegic / diplegic posture, dysmorphism, built up shoes, feeding tube or central line for PN.

▶ Cranial nerves

CN II Optic nerve



Small - Short-sighted Larger - Long-sighted

▶ AFROC

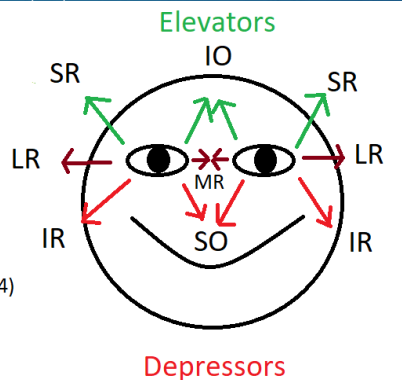
- ▶ Acuity – each eye separately, glasses ON! Snellen chart if can read, Kays matched pictures (children who can point), Cardiff Cards (non verbal children)
- ▶ Fields – 4 quadrants, 1,2,5 fingers, flash up quickly!
- ▶ Reflexes – direct, consensual, accommodation, RAPD
- ▶ Optic disc – leave till end!
- ▶ Colour vision – ischihara plates

▶ Eye movements III, IV, VI

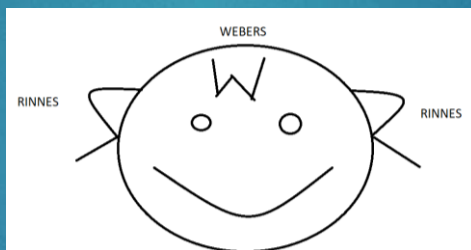
Oculomotor (III)
 SR = superior rectus
 IR = internal rectus
 IO = internal oblique
 MR = medial rectus

Trochlear (IV)
 SO = superior oblique (SO4)

Abducens (VI)
 LR = lateral rectus (LR6)



- ▶ CN V – youtube jaw jerk!
- ▶ CNVII – inspect first for asymmetry before movements
- ▶ CN VIII – use as opportunity to inspect ears: hearing aids, scars cochlear implants, VP shunt



Hearing loss	Rinne test (Conduction)	Weber test (Localization)
None	Air > bone	Midline
Sensorineural	Air > bone	Normal ear
Conductive	Bone > air	Affected ear

- ▶ CN IX – skip it! But explain why
- ▶ CN X – check out youtube for video of unilateral vagus nerve palsy (soft palate doesn't move on saying ah)
- ▶ CN XI – XII – you know how to do this!
- ▶ Finish – ophthalmoscopy, full upper and lower limb neurological exam, height weight on growth chart.

▶ FOCUS ON:

▶ Red reflex:

- ▶ Not really part of examination, but do include it if only asked to do an eye exam, look up corneal reflex too (can help you with squints)

▶ Ptosis:

- ▶ Unilateral (Horners / 3rd nerve palsy) vs bilateral (Myasthenia Gravis – can often also be unilateral) & Syndromic causes
- ▶ Congenital Horner's – heterochromia iridis (birth trauma)
- ▶ Useful trivia – ice test!
- ▶ Syndromic causes – Noonans, Smith Lemni Opitz, Rubenstein Taybi

▶ Facial Nerve palsy

▶ **“upper motor neurone lesions are forehead sparing”**

▶ Outro, with thanks to DragonBytes!