Cheatography

Visual anatomy

Visual system is located in the supratentorial compartment

Cells in back of eye that process vision are rods (night vision + Movement) + Cones (day + colour vision)

In the Macular, rods are more prominent

Pathway:		
Rods/Cones		
Bipolar Cells		
Ganglion cells		
Optic Disc		
Optic Nerve		
Optic Chiasm - nasal fibres cross over here		
Optic Tract		
Nasal fibres - Lateral Geniculate Body (LGB)		
Superior Colliculus		

Considerations	
Impairment	One/both eyes, total/partial visual loss, whole/partial field loss, precipitating factors? Transient/constant
Diplopia	Unequal eye placement - Brain receives two displaced images
Gaze Disorders	
Hallucinations	Field involved, Formed/Unformed
Central loss	Macula - <5° of visual field
Field loss (peripheral)	>5° of field

Monocular Visual Loss

Single Eye lesion before optic chiasm

Optic Neuritis S&S Usually a sign of MS, but can occur in isolation Presents at a young age

7-10 days of eye pain when moving the eye

Loss of vision



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Glaucoma

S&S

Sudden Visual Loss, Severe eye and facial pain

Nausea, Vomiting

Dilation

Associated with: Diabetes, high intraoccular pressure, Genetic

Retinal Detachment

S&S

Associated with: Myopia, diabetes, intraoccular inflammation, surgery/trauma

Brief flashes of light in peripheral vision

Increase in floaters in temporal vision

Central Retinal Artery occlussion

S&S

Sudden Severe visual loss NO PAIN

If branch affected, the symptoms will get better. If central artery itself is affected, symptoms will not improve

In fundoscopy:

"cherry red" spot in choroid

Posterior pole retinal opacity

Pallor

Optic disc oedema

Transient visual field loss - binocular/monocular		
Ischaemia	Visual symptoms without headache	
Migraine	Aura	
Increased ICP	Visual Loss when sitting up/standing - findings bilateral optic disc oedema, obstruction of CSF	
TIA	Hemiplegia, Dysarthria, Nausea, Vomiting, Dizziness	

Retrobulbar Neuritis

Inflammatory condition of optic nerve + Retina

Affects central vision (blurring/mistiness)

Pain when moving eye

MS - Present in ~50% of cases



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Tumour on Optic Nerve

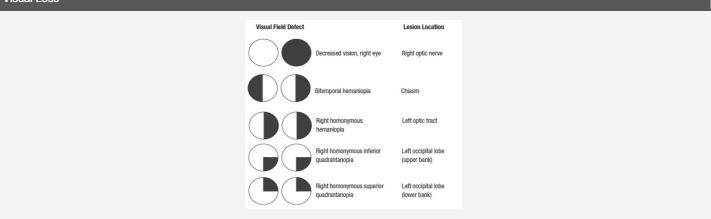
Painful

Increased ICP

Affects fibres that convey red - can affect other colours too

Red colour blind - gets worse as increased compression happens

Visual Loss





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