# 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

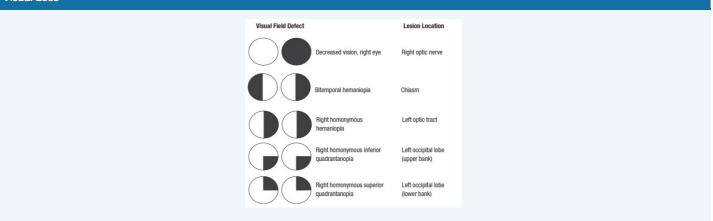
#### Painful

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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