

## Remember Me...

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### **Introduction:**

Right from the first day of our residency period, we come across numerous values and data. Some get etched into our brain forever but the vast majority never penetrates into the desired depths of our hippocampus, the part of our limbic system responsible for memory. Here is a compilation of some of the common values which we come across in general.

### **Cornea :**

- \* Corneal diameter: Anterior: Vertical-10.6mm, Horizontal-11.7mm  
Posterior: Vertical-11.7mm, Horizontal-11.7mm
- \* Thickness of cornea: Centre- 0.5-0.6mm  
Periphery- 1.2mm
- \* Radius of curvature of anterior surface: 7.8
- \* Radius of curvature of posterior surface: 6.5
- \* Endothelial cell count: At birth- 6000cells/ mm<sup>2</sup>  
Young adults- 2400-3000cells/mm<sup>2</sup> <500 cells/mm<sup>2</sup> causes corneal decompensation
- \* Refractive index of cornea: 1.376
- \* Surgical limbus- 2mm

### **SCLERA:**

- \* Forms posterior five-sixth of the eyeball
- \* Thickness: Posteriorly- 1mm,  
At the insertion of rectus muscle-0.66mm,  
Beneath the insertion of the rectus muscle- 0.33mm
- \* Vortex vein: passes 4-7mm posterior to the equator.

### **Lens :**

- \* Diameter of lens: 6.5mm at birth, 9-10mm at around 20years
- \* Average weight of lens: At birth- 65mg , At 80years- 265mg
- \* Refractive index of lens- 1.39
- \* Thickness of lens: 3.5mm at birth 5mm in old age
- \* Radius of curvature of anterior surface of the lens: 10mm

- \* Radius of curvature of posterior surface of lens: 6mm

### **VITREOUS HUMOUR:**

- \* Volume- 4cc, Weight-4g
- \* Component: 99% water
- \* Vitreous base: 3mm- 1.5mm anterior and 1.5mm posterior to ora.

### **AQUAOUS HUMOUR:**

- \* Aqueous- 0.3ml
- \* Anterior chamber- 0.25ml, posterior chamber- 0.06ml
- \* Refractive index- 1.336
- \* AC depth -3mm (central)

### **UVEA:**

- \* Pupil diameter : 3-4mm
- \* Ciliary processes: 70-80
- \* Anterior ciliary arteries: 7
- \* Long posterior ciliary arteries: 2
- \* Short posterior ciliary arteries: 10-20
- \* Pars plana: 5mm width(temporal), 3mm width(nasal)

### **RETINA:**

- \* Foveal avascular zone: 0.4-0.6mm in diameter
- \* Macula lutea: 5.5mm in diameter
- \* Fovea centralis: 1.85mm, Foveola: 0.35mm
- \* Parafoveal area: 0.5mm, Perifoveal area: 1.5mm
- \* Rods: 120 million, Cones: 6.5 million
- \* Optic disc: 1.5mm in diameter
- \* Optic nerve: - length-5cm,  
Intraocular-1mm, intraorbital-30mm,  
Intracranial-6 to 9 mm, intracranial-10mm

### **GENERAL:**

- \* Insertion of rectus muscle: (MILS)
- \* Medial rectus: 5.5mm
- \* Inferior rectus: 6.5mm
- \* Lateral rectus: 6.9mm
- \* Superior rectus: 7.7mm
- \* Volume of orbit: 30ml
- \* Treatment schedule for keratomalacia:  
<6months: 50,000IU retinyl palmitate orally  
Weight <8kg/ 6months-1year: 100,000IU retinyl palmitate orally  
Weight >8kg/ >1year: 200,000IU retinyl palmitate orally