Eye, orbit, orbital region and eyeball

GENERAL OBJECTIVES:

- general considerations of the organization of various structures in the orbit
- principles of the organization of the eyeball
- structure and function of supporting apparatus of the eyeball
- irrigation and innervations of the orbit (walls and content)

SPECIFIC OBJECTIVES:

1. Orbital Cavity

Walls: Medial, Lateral, Apex & Base (Orbital Margin)

Contents:

Orbital Periosteum, Orbital Fat.

Fascial Sheath of Eyeball -> Check Ligaments, Suspensory Ligament

Eyeball: (Fibrous & Vascular Coats)

(Retinal Coat, Refractive Media)

Muscles: Levator Palpebrae Superioris

4 Rectus Muscles: Sup., Inf., Med., Lat. 2 Oblique Muscles: Superior, Inferior

Attachments, Common Tendinous Ring of Origin of Recti

Actions

Nerves: II (Optic Nerve) -> Optic Disc on Retina

III (Superior & Inferior Divisions), IV, VI V'(Ophthalmic Division): Lacrimal

Frontal (& Branches)

Nasociliary Branches

Ciliary Ganglion (Parasympathetic) -> Short Ciliary Nerves

Sympathetics (Plexus along Ophthalmic Artery)

Arteries: Ophthalmic

Branches: Central Artery of Retina

Others

Veins: Ophthalmic - Superior & Inferior, Central Retinal

Lacrimal Gland - Deep (Orbital) Lobe

2. Eyelids and Lacrimal Apparatus

Eyelids: Tarsal Plates (Upper & Lower) Palpebral ligs. (Med. & Lat)

Orbital Septum (Palpebral Fascia)

Muscles: Lev. Palp. Superioris -> Superior Tarsal Muscle

Orbicularis Oculi (Palpebral Part)

Lacrimal Apparatus:

Lacrimal Gland & Ductules, Conjunctiva Lacrimal Canaliculi, Sac, Nasolacrimal Duct