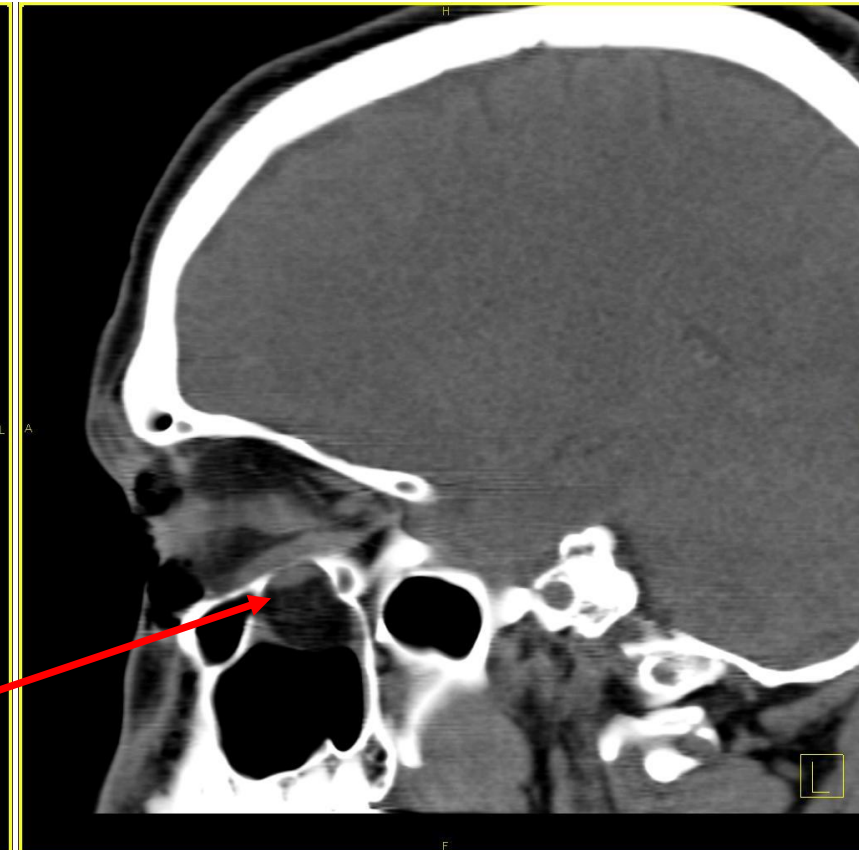
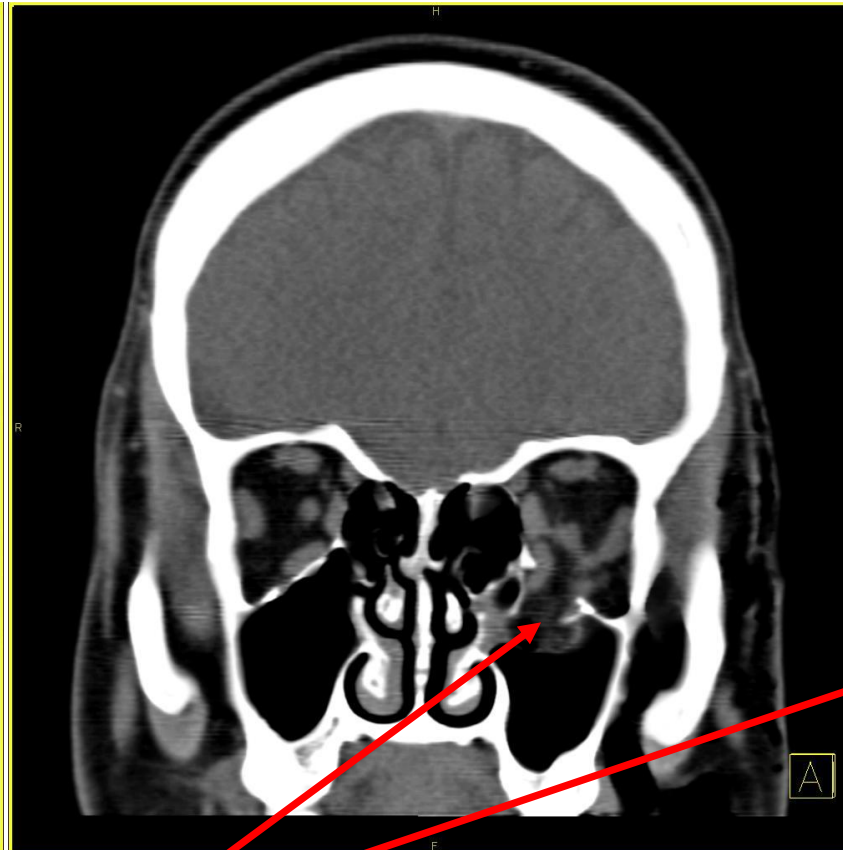
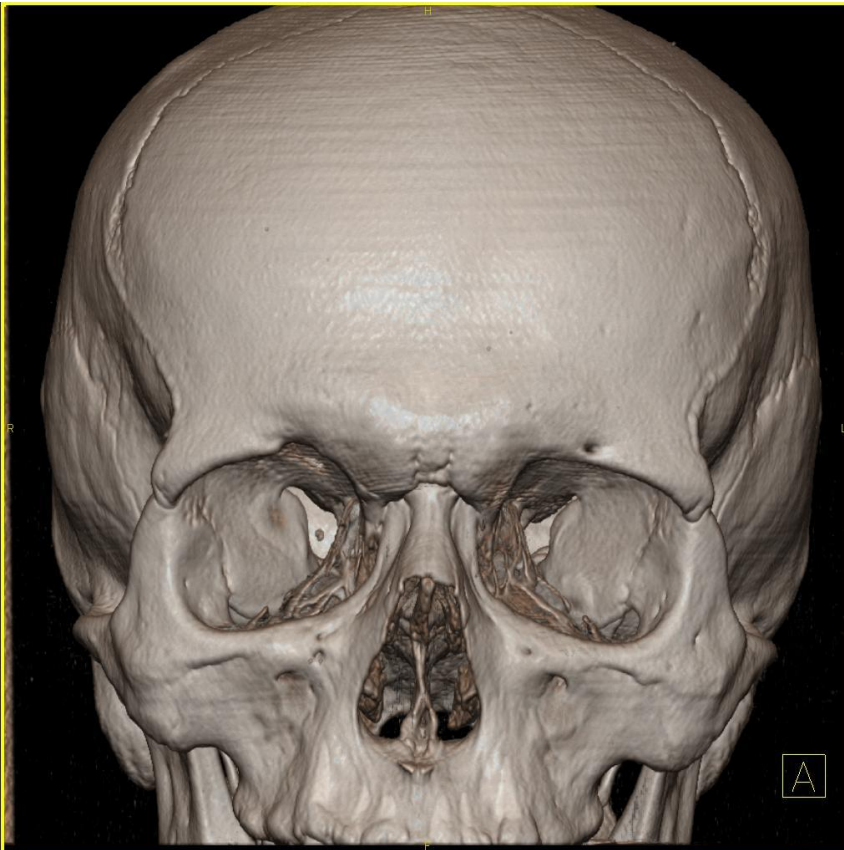


Clinically important aspect of eye and orbit anatomy

blow-out fracture

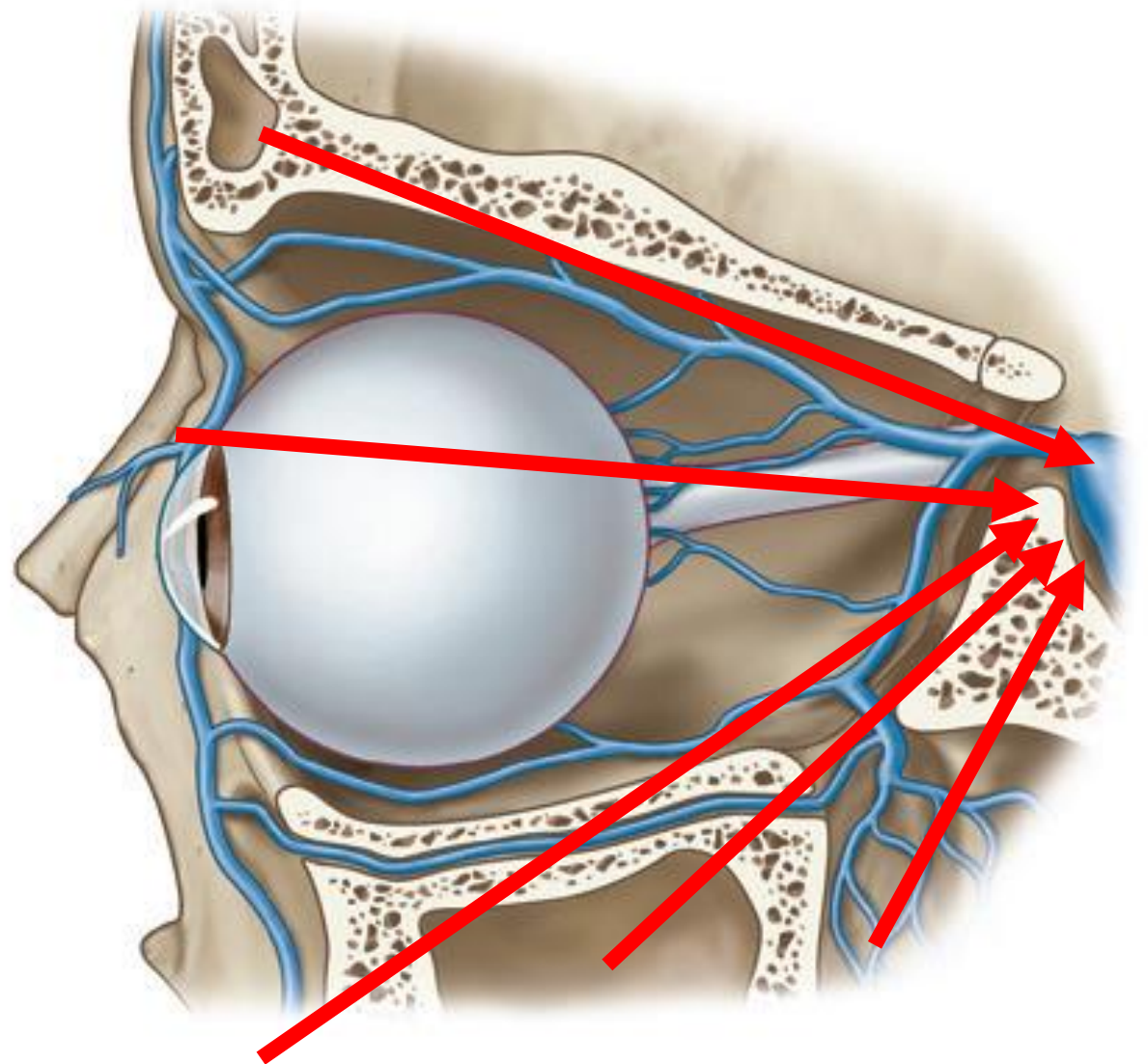
- ♦ Impact to an eye bulb - bulb as a secondary projectile - bottom fracture
 - ♦ Entrapment of inferior rectus - double vision
 - ♦ Outer rim of the orbit without signs of fracture



herniatio m. recti inferioris

Infection spread in the orbit

- ♦ Sinus cavernosus connected
- ♦ **Via v. ophthalmica superior**
 - ♦ To territory of v. facialis
- ♦ **via v. orbitalis inferior**
 - ♦ to plexus pterygoideus
- ♦ Infection spread from
- ♦ sinus frontalis
- ♦ Nose cavity
- ♦ Upper lip
- ♦ Parapharyngeal space
- ♦ From maxilla and upper teeth



nervus oculomotorius (III)

- ♦ function

- ♦ somatomotor

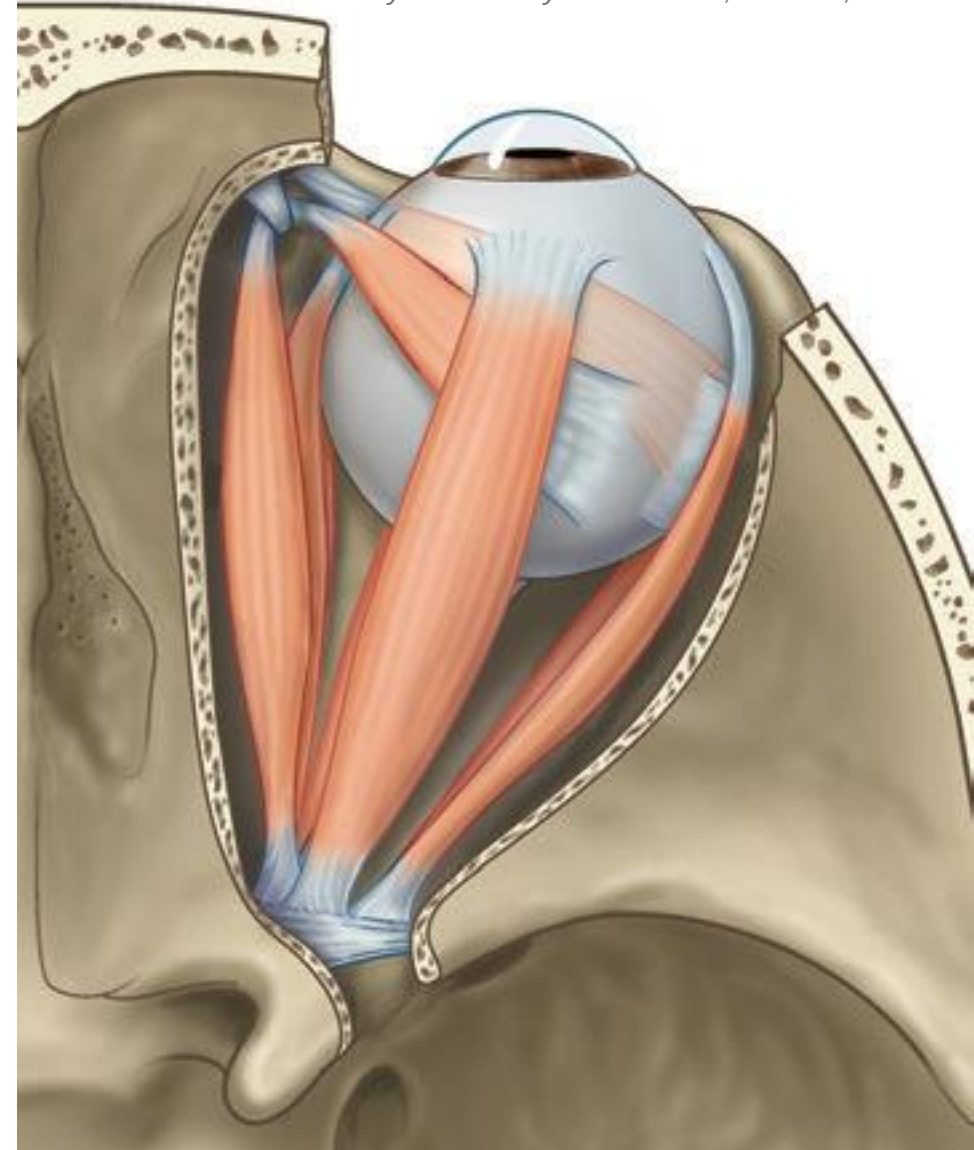
- ♦ Moving with

- ♦ M. levator palpebrae
- ♦ M. rectus superior
- ♦ M. rectus medialis
- ♦ M. rectus inferior
- ♦ M. obliquus inferior
- ♦ **CAVE !!!**
- ♦ *M. obliquus superior – IV. n. trochlearis*
- ♦ *M. rectus lateralis – VI. N. abducens*
- ♦ *Nc. medianus (impaired nucleus)*

- ♦ **Visceromotor – accommodation, pupillary contraction**

- ♦ Nucleus oculomotorius accessorius (Edinger-Westphal)
- ♦ Ganglion ciliare
- ♦ M. sphincter pupillae – contraction of iris – contraction of pupilla
- ♦ M. ciliaris – contraction – accommodation to distant point

Gray's Anatomy for Students, Elsevier, 4th ed.



nervus oculomotorius (III)

Gray's Anatomy for Students, Elsevier, 4th ed.

♦ function

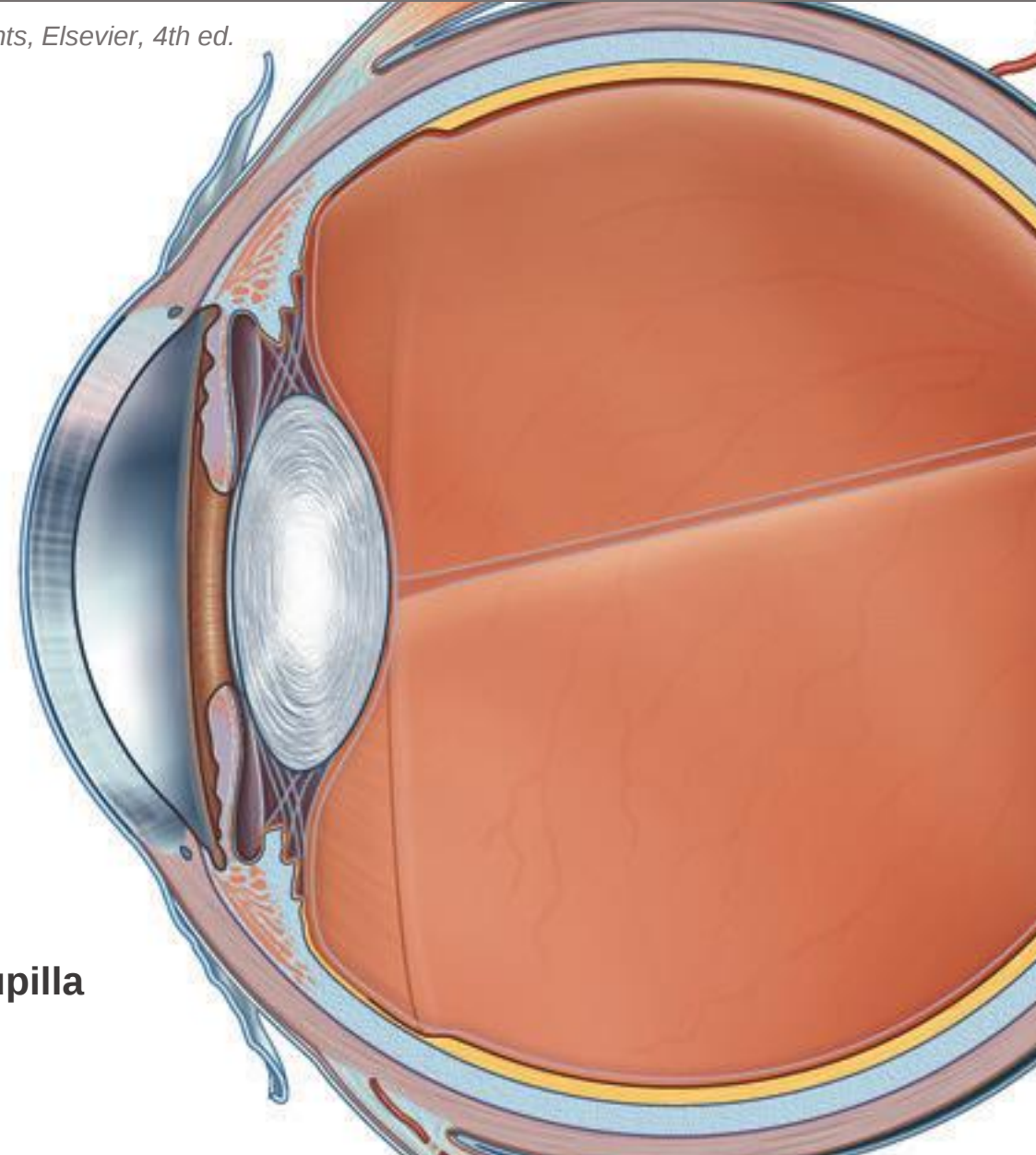
♦ somatomotor

♦ Moving with

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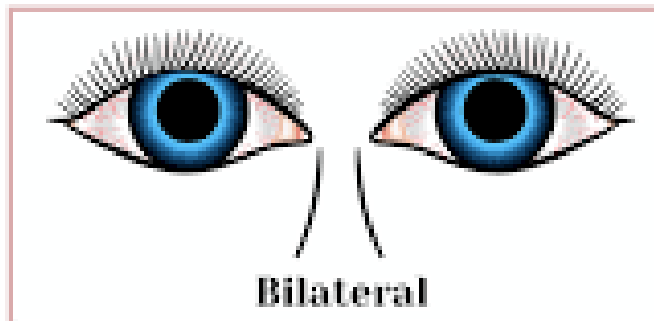
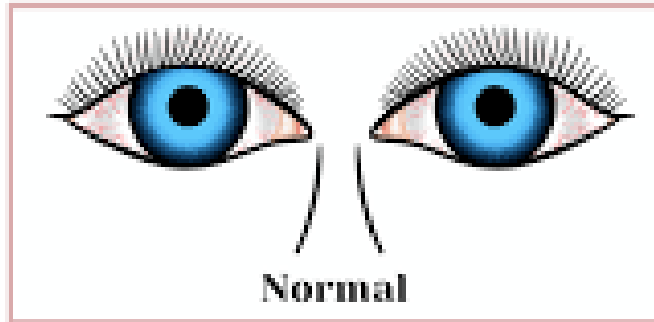
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- ♦ M. ciliaris – contraction – accommodation to distant point



Mydriasis

- ♦ **Impaired function n. oculomotorii**
- ♦ **Mydriasis**
- ♦ **Divergent strabismus**
- ♦ **causes**
 - ♦ Compression of mesencephalon
 - ♦

Mydriasis



Clinically important aspect of eye and orbit anatomy