

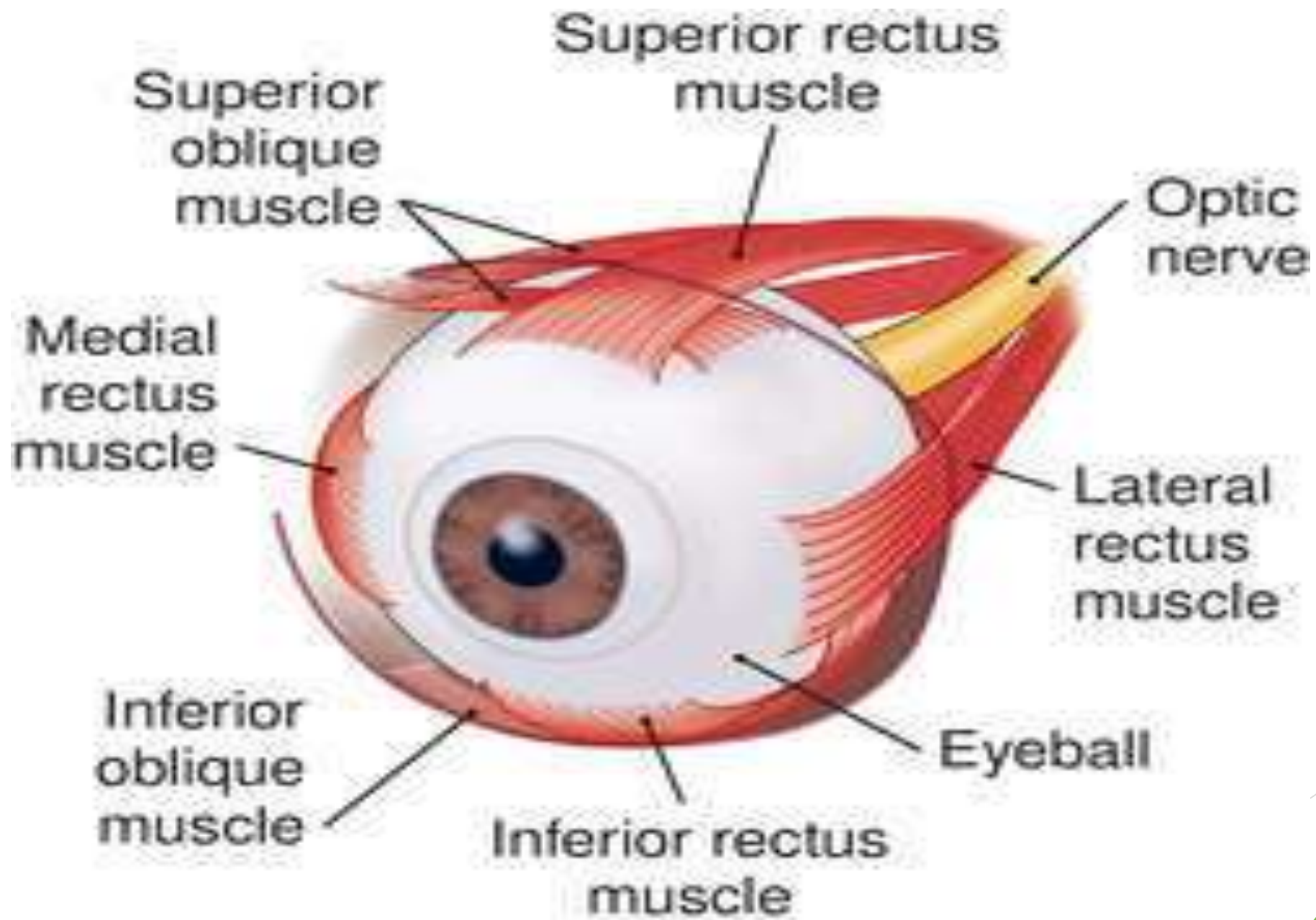


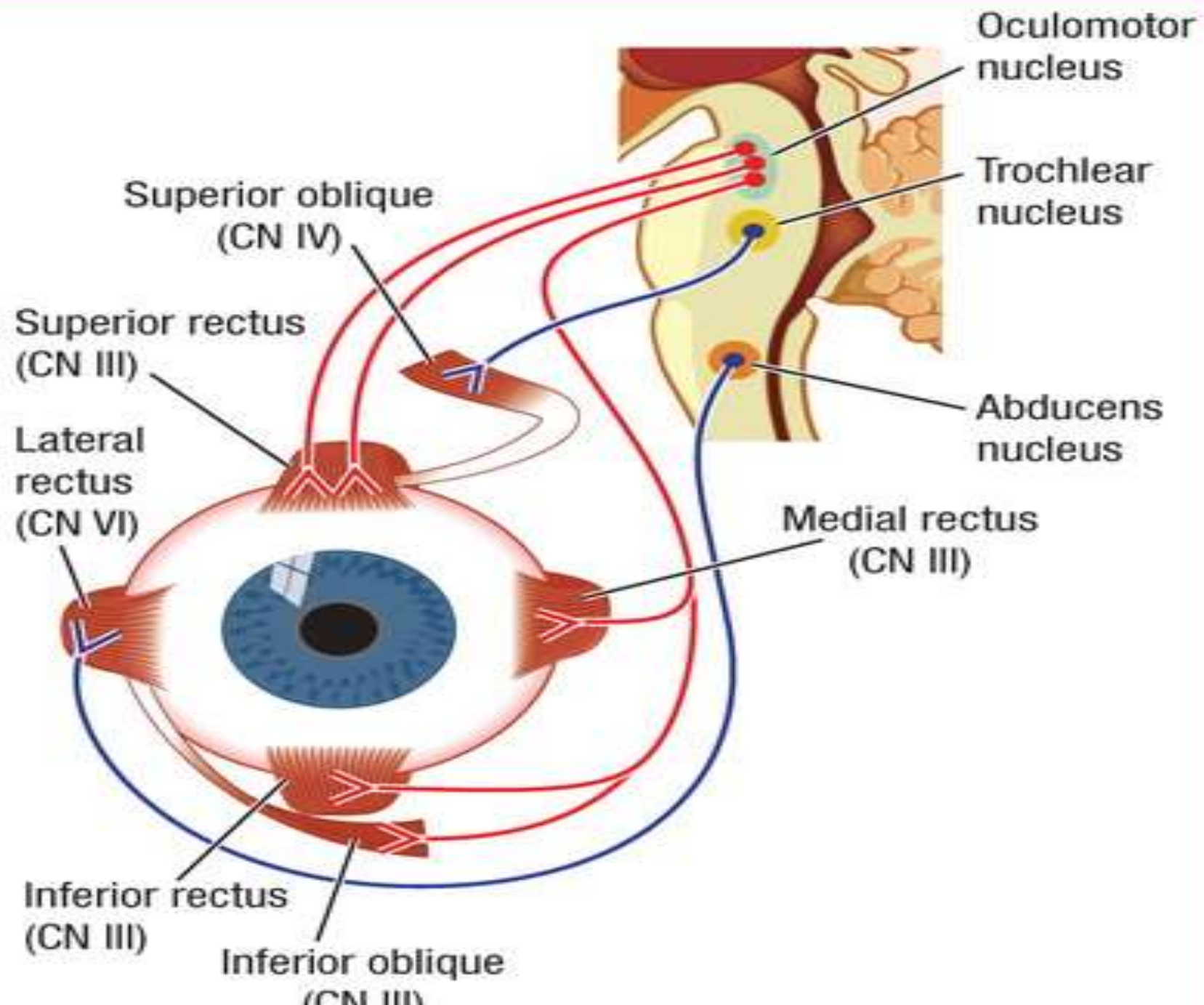
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Diabetes & extra ocular muscle palsy

A.Medghalchi,M.D

Gums 1401





Diabetes & extra ocular muscle palsy

- ▶ 3th nerve
- ▶ 6th nerve
- ▶ 4th nerve

3th nerve palsy

- ▶ Isolated
- ▶ Incomplete
- ▶ Complete

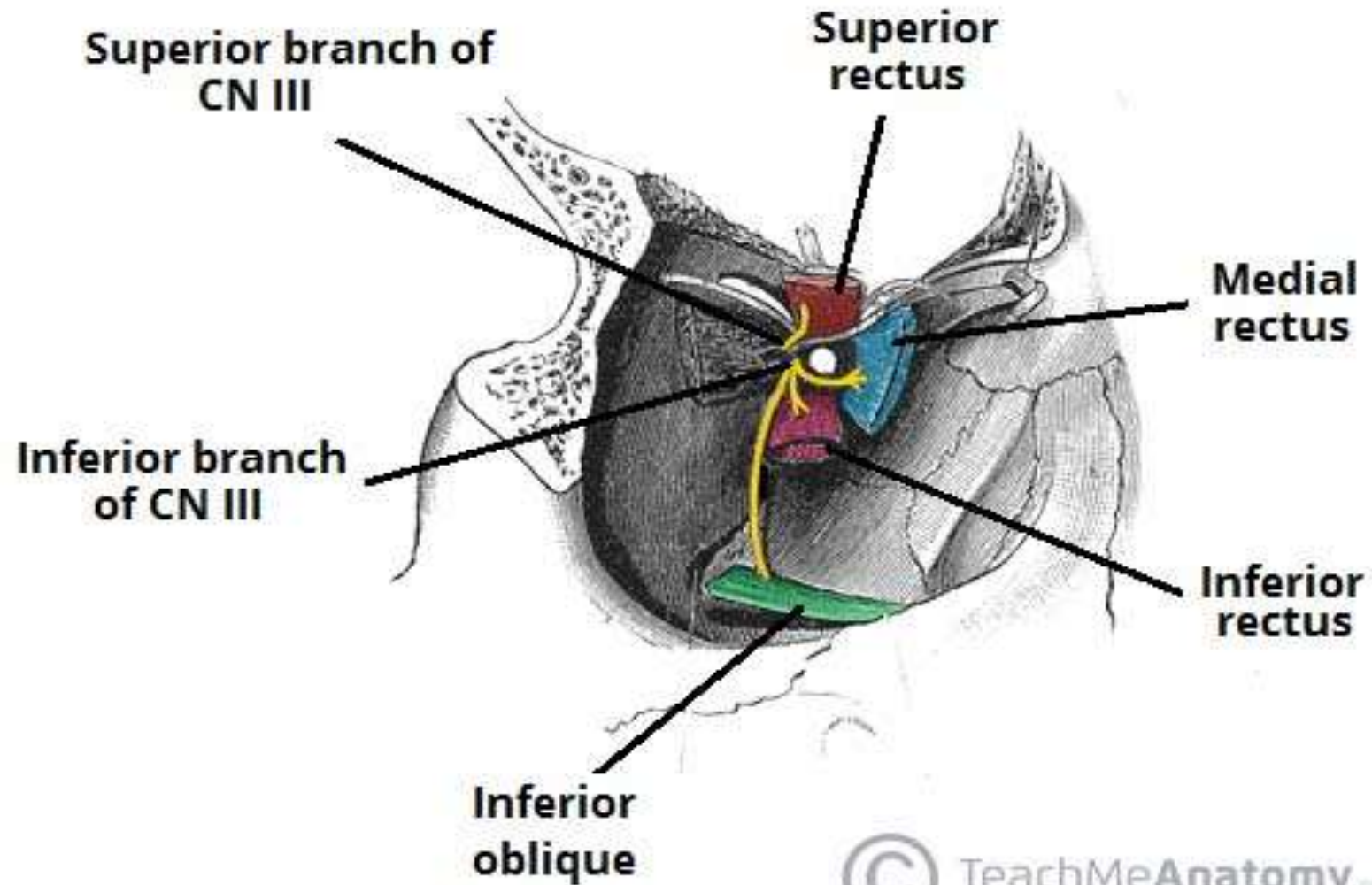
Diabetes & extra ocular muscle palsy

- ▶ Pupil sparing
- ▶ Improved in 3months
- ▶ CNS work-up after 3 months
- ▶ FBS check in any 3th nerve palsy with pupil sparing
- ▶ MRA or CTA must be done in any 3th nerve palsy with pupil involvement

3th nerve palsy

- ▶ The oculomotor nerve separates into superior division and inferior division:
- ▶ **Superior division** innervating the superior rectus and levator palpebrae superioris
- ▶ **Inferior division** innervating the medial, inferior rectus, inferior oblique and pupil
- ▶ Diabetic oculomotor nerve palsies, ischemic third nerve palsies, are the most common etiologic of oculomotor nerve palsy

3th nerve



3th nerve

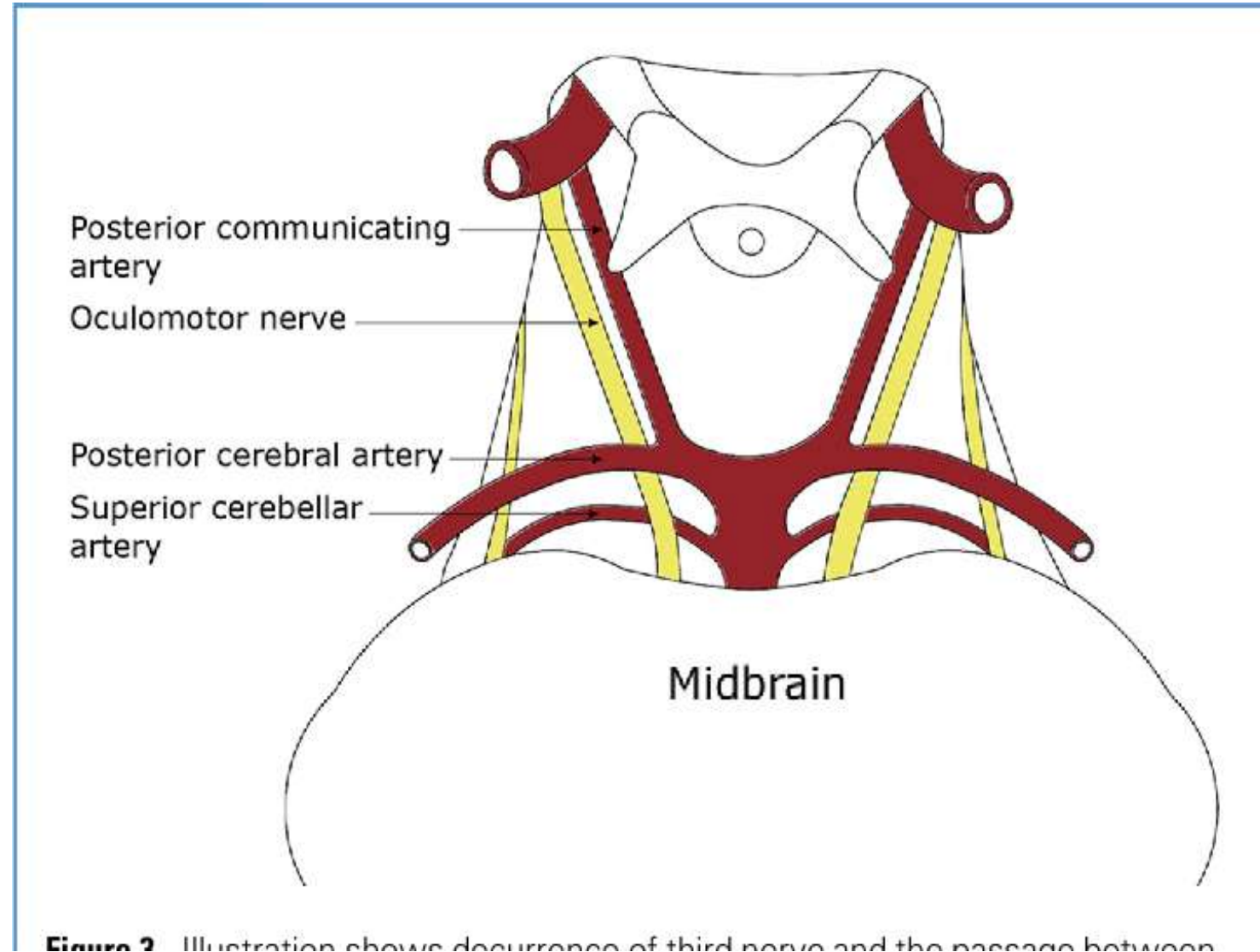
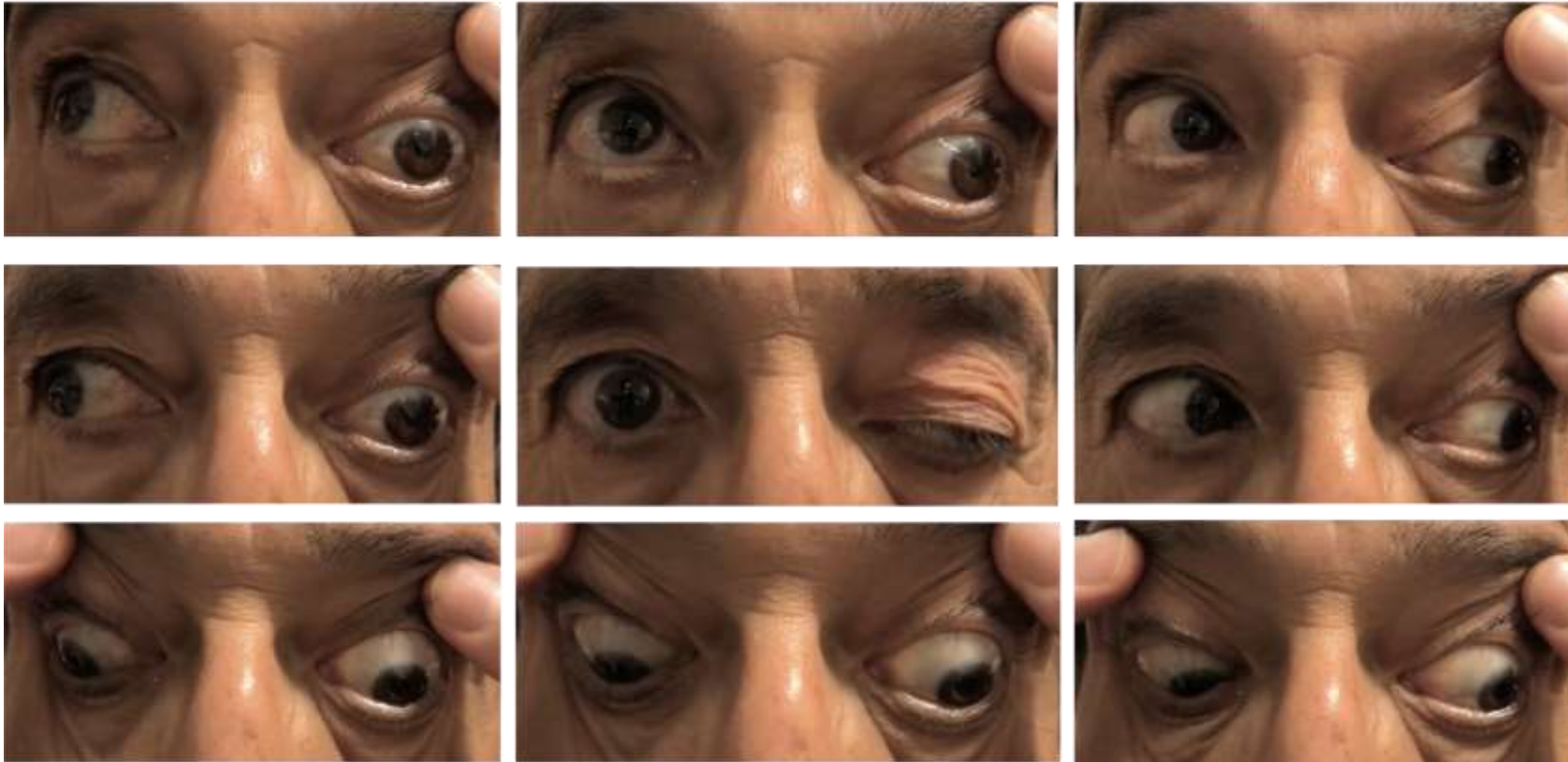


Figure 2 Illustration shows decussation of third nerve and the passage between

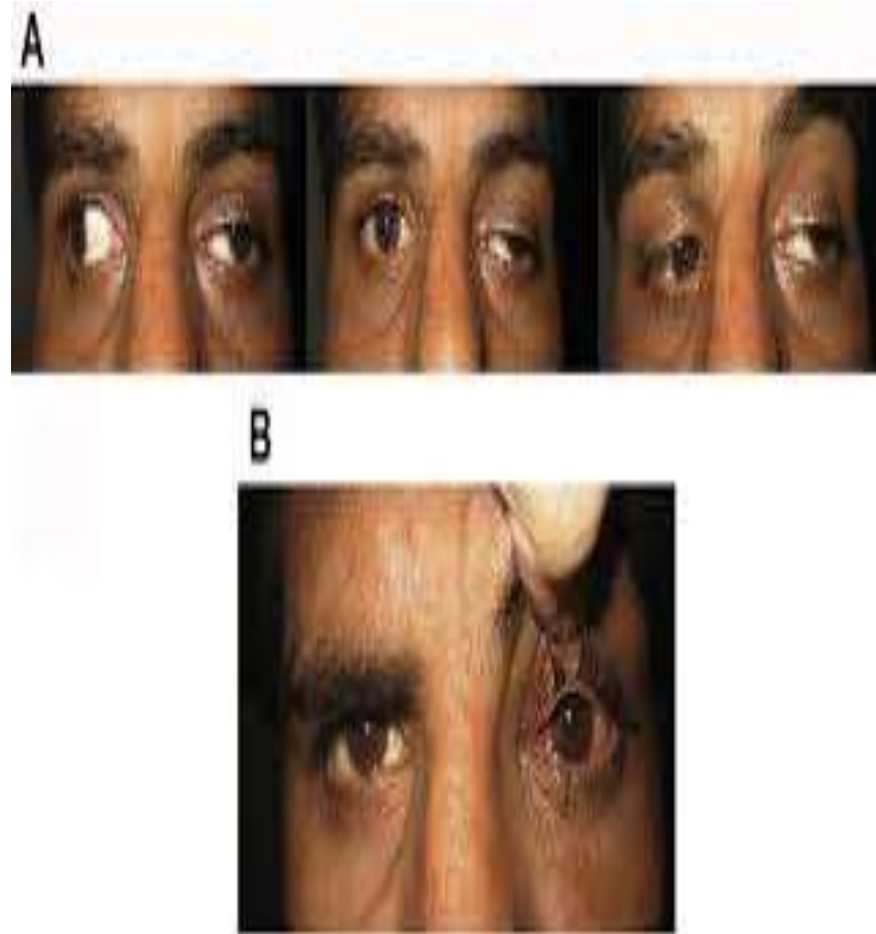
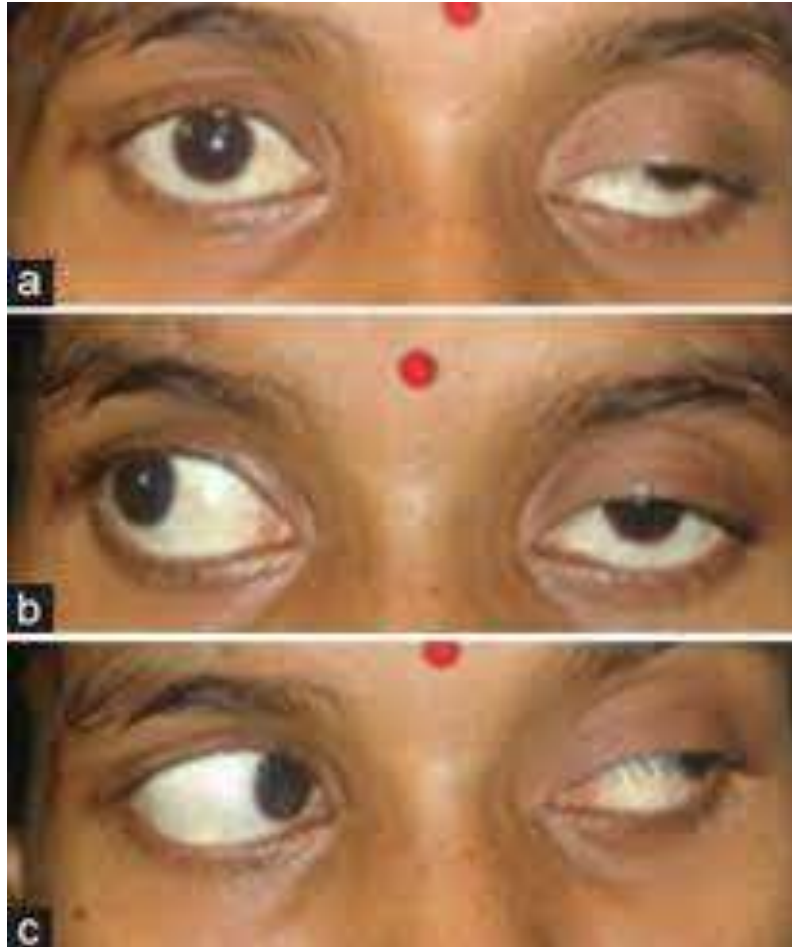
3th nerve palsy

- ▶ Contralateral head turn
- ▶ Ptosis
- ▶ Exotropia
- ▶ Hepertropia
- ▶ Hypotropia
- ▶ Combined vertical & horizontal deviation
- ▶ Vertical and horizontal diplopia
- ▶ Pupillary function is often spared(95%)
- ▶ Pupillary paralysis in 5%

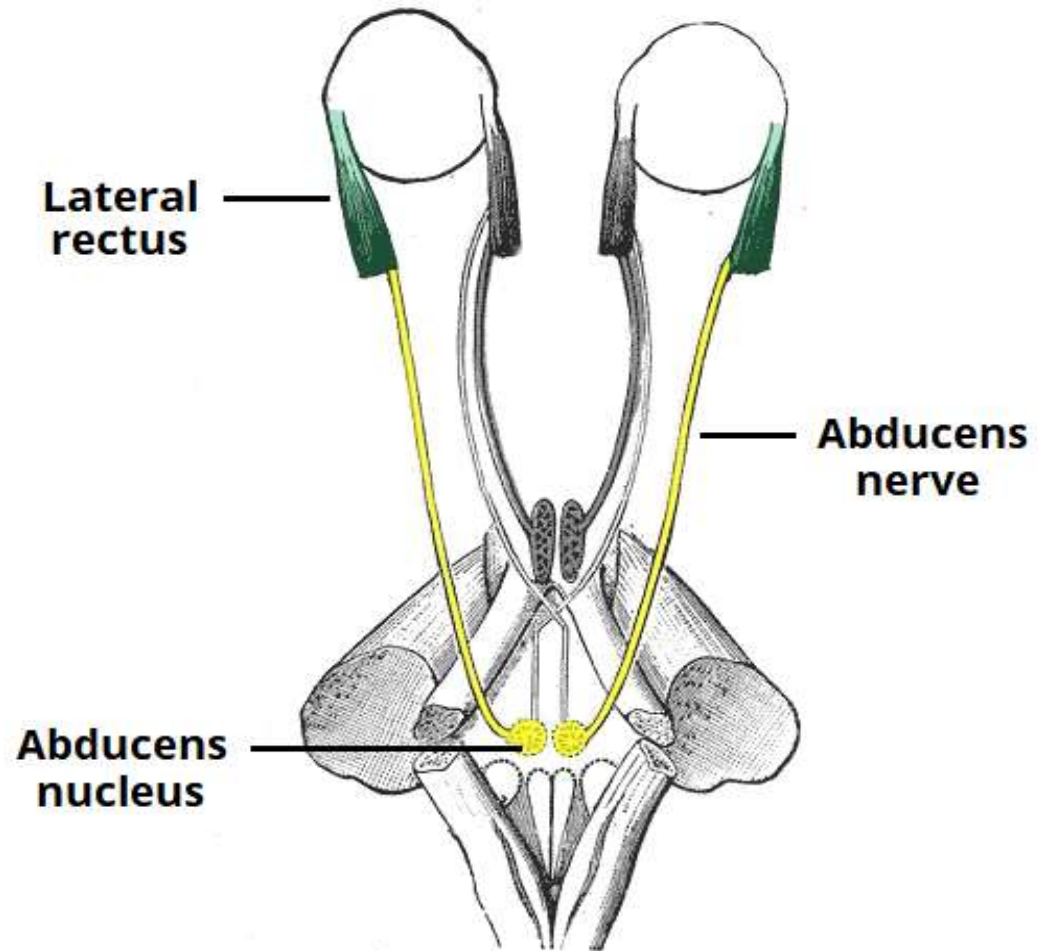
3th nerve palsy



3th nerve palsy



6th nerve palsy



6th nerve palsy

- ▶ Esotropia greater in far
- ▶ Ipsilateral head turn
- ▶ Horizontal diplopia

6th nerve palsy



4th nerve palsy

- ▶ Rare in diabetes
- ▶ The common cause are congenital or trauma
- ▶ Improved in 3months
- ▶ CNS work-up indicated if not improved after 3M

4th nerve palsy

- ▶ Ipsilateral hypertropia
- ▶ Contralateral head tilt
- ▶ Torsional diplopia

Left hypertropia in primary position, worse in right gaze and with left head tilt



Left hypertropia 16 PD



Left hypertropia 8 PD



Left hypertropia 4 PD



Limitation of depression in adduction



Left hypertropia 2 PD



Left hypertropia 18 PD

