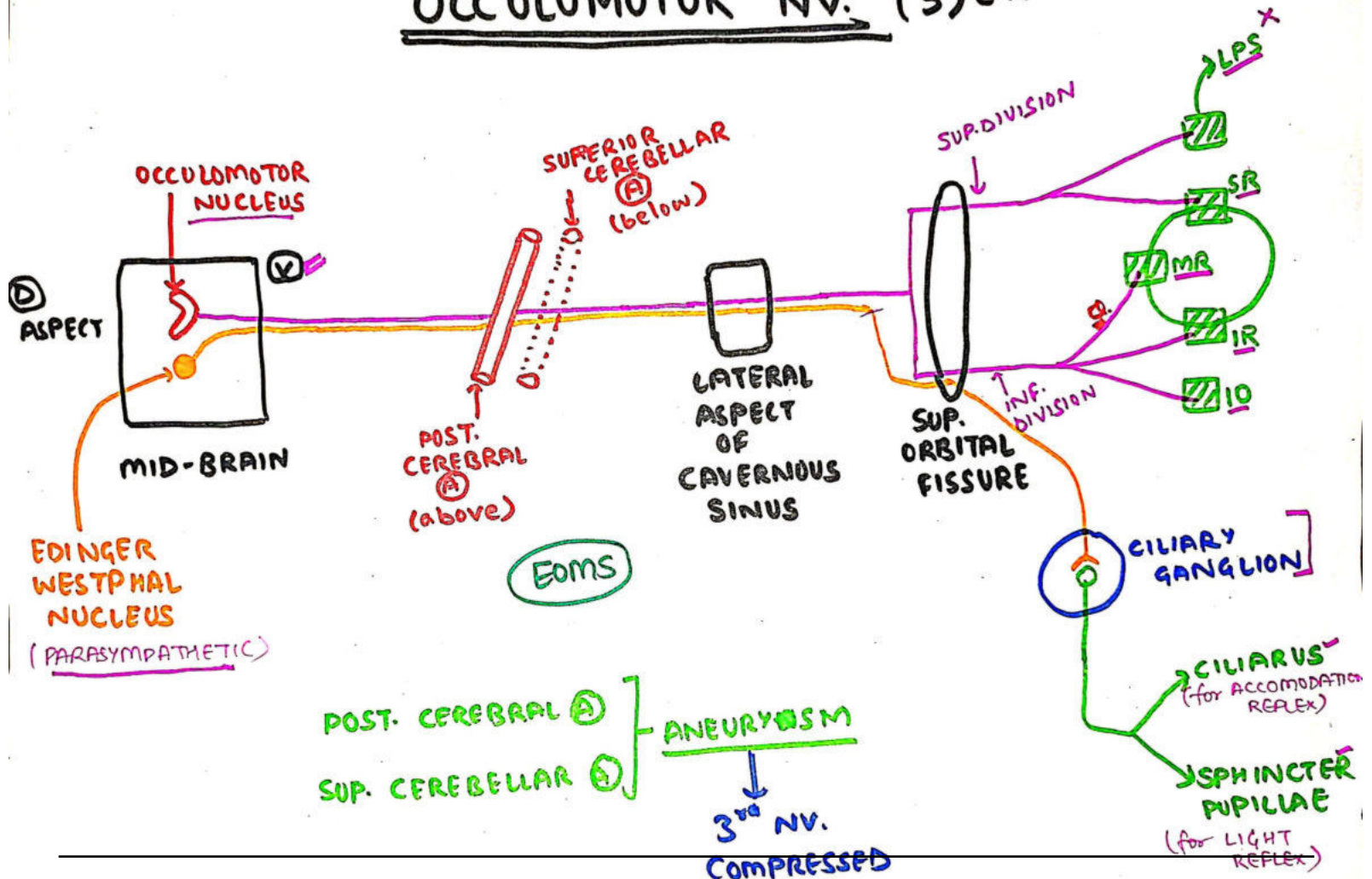


OCCULOMOTOR NV. (3rd) C.N.





② GENERAL VISCERAL Efferent - FOR CONTRACTION
(motor) OF PUPIL & ACCOMODATION.

③ GENERAL SOMATIC AFFERENT - CARRIES
(sensory) PROPRIOCEPTIVE FIBRES FROM
✓ EXTRA OCULAR MUSCLES TO
MESENCEPHALIC NUCLEUS OF V.

EOMS

NUCLEUS - OCCULOMOTOR NUCLEUS IS SITUATED IN THE
VETEROMEDIAL PART OF CENTRAL GREY MATTER
OF MIDBRAIN. AT THE LEVEL OF SUPERIOR
COLLICULUS.

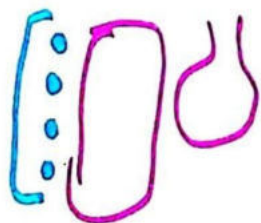
- ② NERVE PASSES B/W SUP. CEREBELLAR & POST. CEREBRAL ARTERIES & RUNS FORWARDS IN THE INTER PEDUNCULAR CISTERN TO REACH CAVERNOUS SINUS.

EOMs

- ③ IN THE CAVERNOUS SINUS: NERVE ENTERS CAVERNOUS SINUS BY PIERCING THE POST. PART OF ITS ROOF



IT DESCENDS TO LATERAL WALL OF SINUS WHERE IT LIES ABOVE TROCHLEAR NIV.



IN THE ~~PRE~~ ANT. PART OF SINUS

NERVE DIVIDES INTO UPPER & LOWER DIVISIONS.



SMALLER UPPER
DIVISION



ASCENDS ON THE LATERAL
SIDE OF OPTIC NV.



SUPPLIES: i) SUP. RECTUS ✓
ii) PART OF LEVATOR
PALPEBRAE ✓
SUPERIORIS

LARGER LOWER
DIVISION



DIVIDES INTO 3
BRANCHES FOR:

- i) MEDIAL RECTUS ✓
- ii) INF. RECTUS ✓
- iii) INF. OBLIQUE ✓

✓ LONGEST
NV.
OUT OF THESE
3.

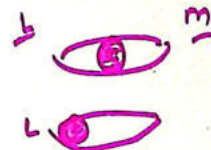
* ALL BRANCHES ENTERS THE MUSCLES ON
THEIR OCULAR SURFACES EXCEPT FOR
INF. OBLIQUE WHICH ENTERS ITS POST. BORDER

OCCULOMOTOR NIV. (CLINICAL)

COMPLETE / TOTAL PARALYSIS OF THIRD NERVE

RESULTS IN :

EOMS



① PTOSIS (DROOPING OF UPPER EYELID) - DUE TO PARALYSIS OF VOLUNTARY PART OF LEVATOR PALPEBRAE SUPERIORIS MUSCLE.

② LATERAL SQUINT - DUE TO PARALYSIS OF MEDIAL RECTUS & INF. OBLIQUE.

∴ EYEBALL GETS TURNED DOWNWARDS & LATERALLY
DUE TO UNOPPOSED ACTION OF LAT. RECTUS & SUP. OBLIQUE MUSCLES.

③ DILATATION OF PUPIL - DUE TO PARALYSIS OF PARASYMPATHETIC FIBRES TO SPHINCTER PUPILLAE MUSCLE.

- ④ LOSS OF ACCOMODATION - DUE TO PARALYSIS OF CILIARY MUSCLE.
- ⑤ SLIGHT PROPTOSIS 
(FORWARD PROJECTION OF EYE) 
- ⑥ DIPLOPIA / DOUBLE VISION
- ⑦ PUPILLARY LIGHT REFLEX IS ABSENT IN AFFECTED EYE. 
- ⑧ PUPIL DILATES & BECOMES FIXED TO LIGHT.