MEDULLA

CAUDAL (closed)

Crossed by the Central Canal.

Motor Decussation 4=PYRAMIDAL DECUSSATION

pyramidal fibers

Dirict : non cross form the ventral corticospinal tract. CYOSS to the opposite side

the <u>lateral</u> corticospinal tract.

(75-90%)

They <u>descend</u> in the lateral white column of the spinal cord as

Spinal Nucleus of Trigeminal (Trigeminal sensory nucleus)*:

-Nucleus

- lara sensory nucleus
- brain stem

Substantia Gelatinosa of spinal cord

The Nucleus Extends:

- Through the <u>whole length</u> of the <u>brain stem</u> and into <u>upper</u> segments of <u>spinal cord</u>.
- It lies in all levels of M.O, medial to the spinal tract of the trigeminal.

⊳tract

- in all levels of M.O
- is formed of descending fibers that terminate in the trigeminal nucleus.

MID MÉDULLA

- Traversed by Central Canal.
- * Larger size Gracile & Cuneate nuclei.

not external

- * Axons of Gracile & Cuneate nuclei form the internal arguate fibers; Sensory Decussation.
- * Pyramids are prominent ventrally.

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lies adjacent to the middle line <u>ventral</u> to the central canal

Terminates in thalamus.

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7. Tectospinal tract: between tectum of midbrain and spinal cord (involved in head movements during visual and auditory tracking).

ROSTRAL (open)

On the ventral aspect

- The pyramid is clear, with medial lemniscus on either sides of middle line dorsal to the pyramid
- **▶**☐ Inferior Olivary Nucleus:
 - * gray matter.
 - *posterolateral to pyramids
 - **≭** <u>lateral</u>
- to medial leminiscus

Its dorsal surface forms:

Lower part of the floor of

the 4th ventricle.

- The Inferior Cerebellar Peduncle is connecting M.O. with cerebellum.
 - (dorsal and ventral) to the Inferior cerebellar peduncle lie the Cochlear nuclei
- Beneath the floor of 4th ventricle lie:
- Nucleus Ambiguus: (motor nucleus): 9, 10
- *glossopharyngeal N. vagus N.
- * dorsal to olivary nucleus
- Solitary nucleus (sensory nucleus): lies ventrolateral to dorsal nucleus of vagus.
- Dorsal Nucleus of Vagus lateral to the hypoglossal nucleus.
- 1. Hypoglossal Nucleus.
- 3 Medial longitudinal fasciculus, it is important association tract, lies close to the midline, ventromedial to the hypoglossal nucleus.
- 4. Vestibular nuclei complex