Cerebellar Peduncles. UQ

the afferent and efferent fibres of cerebellum are grouped together on each side into 3 large bundles -> CP.

① **Inferior cerebellar Peduncle.** (UQ). AKA -> restiform body

Connects -> posterolateral aspect of medulla to cerebellar hemispheres.

afferent Fibres. —— cerebellar.

CAR VPOP.

Cuneocerebellar. -> arise from accessory cuneate nucleus

Anterior external arcuate fibres -> from arcuate nuclei.

Reticulo cerebellar -> from reticular nuclei.
Vestibulocerebellar -> vestibular nerve & nuclei
Parolivocerebellar :- dorsal accessory olivary nucle.
Olivocerebellar - inferior olivary nucleus
Posterior spino cerebellar :- thoracic nucleus (Clarkes coloumn).

efferent - Cerebello ——.

ROV

Cerebello reticular -

Cerebello olivary -

Cerebello vestibular -

Carel V POP Ketappo
alkar ROV cheyth
Exit aayi
↓
efferent

Middle Cerebellar peduncle.

- largest.
- connects posterolateral surface of pons to white matter of cerebellar hemisphere.

afferent —— Cerebellar.

ROPS {rupees}.

- Reticulocerebellar

arise from same side reticular formation
projected to vermal region

- pontocerebellar → bulk
  arise from pontine nuclei.
  enter opposite cerebellar hemisphere.

form cortico-ponto-cerebellar pathway.

- Serotonergic fibres.
  arise from raphe nucleus of pons.

(No Efferents)

Superior Cerebellar Peduncles.

- Emerge from anterior cerebellar notch connect to midbrain.

Afferents.

CHATT.

- Cerulleocerebellar fibres → from locus ceruleus → noradrenergic
- Hypothalamo cerebellar f. → cholinergic → from hypothalamus
- Anterior spinocerebellar tract →
- Tecto cerebellar → from tectum of midbrain.
- Trigemino cerebellar → from superior sensory & spinal nuclei of trigeminal nerve.

Efferents DORR.

- Cerebello rubral & dentothalamic
- Cerebello olivary
- Cerebello reticular.
- cerebello rubral.