

Cerebral pathways = controls the opposite side → cross one time → conscious level → have three neurons

1-dorsal column

A) gracilis → شيء لزوج فبنحسو بالوسط عشان ما ينتشر ويطلع من الاطراف
وبما انو لزوج بينزل لتحت للور سقمنت

→ medial → received at sacral and lumbar and lower thoracic → name of second neuron is nucleus gracilis

B) cuneatus → lateral → received at upper thoracic and cervical → name of second neuron is nucleus cuneatus

الطريق حقهم اول شيء لاول نيرون يدخلو في الدورسل قنقليون بعددين يروحو
لنيرون الثانيه كاتبه اسمائهم فوق

Then cross in the medulla as "internal arcuate fiber "

بعددين بترسل لفوق عشان بنوصلها للنيرون الثالث يتغير اسمها ل
medial lemniscus "

بعددين توصل للنيرون الثالث " posterior nucleus of the thalamus "
اخر شيء يرسلها للنيرون الثالث ل " somatosensory cortex "

2-anterior-lateral pathway (spinothalamic tract)

A) lateral spinothalamic tract

Pain and temperature

1nero "small cell of dorsal root ganglia → 2nero "substantia gelatinosa in posterior (dorsal) horn " → 3nero " vp nucleus of the thalamus " → primary sensory cortex in opposite side.

B) anterior spinothalamic tract

Carries crude touch and pressure

1nero "Medium sized cell in the dorsal root ganglia " → 2nero " nucleus proporius " → 3nero " vp nucleus of the thalamus " → primary sensory cortex in opposite side .

Cerebellum=controls the same side → cross twice or don't cross → subconscious centers → two neuron

1-spinocerebellar pathway

A)posterior spinocerebellar

1neron "large cell of dorsal root ganglia " → 2neron "cell of the nucleus dorsals (clark's nucleus)" → axon of 2neron terminal ipsilaterally (uncrossed) → entering inferior cerebellar peduncle

B)anterior spinocerebellar

هي اللي في الامام فهيا المشاغبه الي بتسوي كروس مرتين

1neron "large cell of dorsal root ganglia " → 2neron "base of dorsal horn in lumbosacral segment" → axon of 2neron cross in the opposite side → ascend in midbrain and sharp turn caudally (cross second time) → entering superior cerebellar peduncle .

Done by: عاتكه كادي