

Done By:

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CNS 2nd year
Group B

الجدول لا يغنى عن المحاضرة

| | Function | Neuron I | Neuron II | Neuron III | Level | N.B. |
|--|---|---|---|--------------------------------|--------------|--|
| Dorsal root (Fasciculus Gracilis & Cuneatus) | <ul style="list-style-type: none"> • Deep Sensations (<i>Propioceptive</i>) • Fine touch | Dorsal root ganglia | nucleus Gracilis & Cuneatus (<i>medulla oblongata</i>) | VP nucleus (<i>Thalamus</i>) | conscious | <ul style="list-style-type: none"> • Medial Lemniscus • Decussate: <i>internal arcuate fibers</i> • Gracilis: <i>lower limb</i> • Cuneatus: <i>upper limb</i> |
| Lateral Spinothalamic | <ul style="list-style-type: none"> • Pain • Thermal | Dorsal root ganglia (<i>small cells</i>) | Substantia Gelatinosa of Rolandi (<i>contralateral</i>) | VP nucleus (<i>Thalamus</i>) | conscious | <ul style="list-style-type: none"> • Decussate (<i>ventral white commissure</i>) • Syringomyelia |
| Ventral Spinothalamic | <ul style="list-style-type: none"> • Crude touch • Pressure | Dorsal root ganglia (<i>medium cells</i>) | nucleus proprius | VP nucleus (<i>Thalamus</i>) | conscious | |
| Spinocerebellar | <p><u>Controls posture & coordination of movement</u> by carrying information from:</p> <ul style="list-style-type: none"> • <u>Muscle spindles</u> • <u>Golgi tendons</u> • <u>Tactile receptors</u> | Dorsal root ganglia (<i>large cells</i>) | nucleus dorsalis (Clark's nucleus) | ---- | subconscious | <p>Dorsal tract:</p> <ul style="list-style-type: none"> • <i>Inferior cerebellar peduncle</i> • <i>Ipsilateral</i> <p>Ventral tract:</p> <ul style="list-style-type: none"> • <i>Superior cerebellar peduncle</i> • <i>Decussate</i> |

Other tracts:

Spino-Olivary, Spinotectal, Spinoreticular