

Subject: _____

Muscles of the back

Extrinsic group

| Muscle | Nerve supply | Action |
|--|--|---|
| First layer: Trapezius latissimus dorsi | Ventral rami of spinal nerves | No functional relation to the vertebral column. |
| Second layer: Levator scapulae Rhomboidus (minor & major) | Spinal nerves | |
| Third layer: Serratus posterior superior // // inferior | 2 nd to 5 th intercostal n. 9 th to 11 th // n. & the subcostal n. (12 th) | elevation of ribs (2-5) depression of ribs |

Attachment of the thoracolumbar fascia

| | | |
|------------------------|-------------|--|
| In the thoracic region | medially | to the spines of thoracic vertebrae |
| | laterally | to the ribs, near their angles |
| In the lumbar region | post. layer | to the spinous processes & supraspinous ligament |
| | middle // | to the tips of transverse processes & intertransversus ligaments |
| | ant. // | to the bases of // // (covering quadratus lumborum) |

Splenius muscle

Nerve supply: dorsal rami of the cervical nerves (same as intrinsic group)
Action: extend the neck (antagonist of sternocleidomastoid muscle)

Intrinsic group

| Muscle | Nerve supply | Action | |
|--|--|--|---|
| Superficial layer: Erector Spinae (from medial to lateral) | spinalis longissimus iliocostalis | extends the spine, lateral flexion (ipsilateral) | |
| Intermediate layer: Transverso Spinalis (from superficial to deep) | Semispinalis capitis | greater occipital n. extension, ipsilateral, rotation (contralateral) | |
| | // cervicis thoracis | medial branches of posterior rami of spinal nerves | |
| | Multifidus | medial branches of posterior rami of spinal nerves | extension, ipsilateral, rotation of the spine |
| | Rotatores | Extension & contralateral rotation of thoracic spine | |
| Deep layer: Interspinales | posterior rami of spinal nerves | extends cervical & lumbar spine | |
| Intertransversarii | posterior rami of spinal nerves | lateral flexion & stabilize the spine | |
| Levatores costarum | in cervical region: Ant. // // // // Post. rami of spinal nerves (T1-T12) | 5 th to 18 th ribs & rotate the thoracic vertebrae | |

doesn't reach the skull