Muscles of the back

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Musculoskeletal Block

Anatomy Practical team - Med 439

the information in this file is based on the things that was given during practical sessions along with doctors' notes

To ensure your grade on each question : 1-Make sure your SPELLING is correct 2-Make sure you write the FULL name or location of the object precisely

Muscles of the back

Muscles of the back can be classified into groups based on 1- Development (Intrinsic muscles - Extrinsic muscles) 2- Action

3-Site (Deep group - Intermediate group - Superficial group)

Erector spine (Deep group).

Spinalis

Longissimus

lliocostalis

From Medial to Lateral

Intermediate group



Serratus posterior inferior



Serratus posterior superior

Trapezius

Origin:

1- Back "external occipital protuberance" of the skull.

2- Ligamentum nuchae.

3- Spinous processes of vertebrae from C7 toT12.

Insertion:

Posterior of lateral ¼ of clavicle.
 Anterior border of Acromion of scapula.
 Anterior border of the Spine of scapula.

Action:

1-Elevation of scapula by upper fibers.2-Retraction of scapula by middle fibers.3-Depression of scapula by lower fibers.



Nerve supply:

1-Spinal root of accessory nerve (11th cranial nerve) [MOTOR] 2- Anterior rami of C3 & C4 of spinal nerves. [SENSORY]

Levator Scapulae

Origin: Cervical transverse processes <u>C1 - C4.</u>

Insertion:

Medial border of dorsal surface of scapula Above the spine process..

Action: Elevation of the scapula.

Nerve supply: Dorsal scapular nerve.



Rhomboid Major

Origin:

Thoracic spinous processes of <u>T2 to T5</u> vertebrae.

Insertion:

Medial border of dorsal surface of scapula Below the spine process.

Action: Retraction of scapula.

<mark>Nerve supply:</mark> Dorsal scapular nerve.



Rhomboid Minor

Origin: The spinous processes of <u>C7 - T1</u> vertebrae.

Insertion:

Medial border of dorsal surface of scapula Opposite the spine process.

Action:

Retraction of scapula.

Nerve supply: Dorsal scapular nerve.



Latissimus Dorsi

Origin:

- 1- Spinous processes of <u>T7 T12</u> vertebrae<u>.</u>
- 2- Iliac crest.
- 3- Thoracolumbar fascia.
- 4- Inferior 3 or 4 ribs.
- 5- inferior angle of dorsal surface of scapula.

Insertion:

- Floor of Intertubercular (bicipital) groove of humerus (anterior surface).

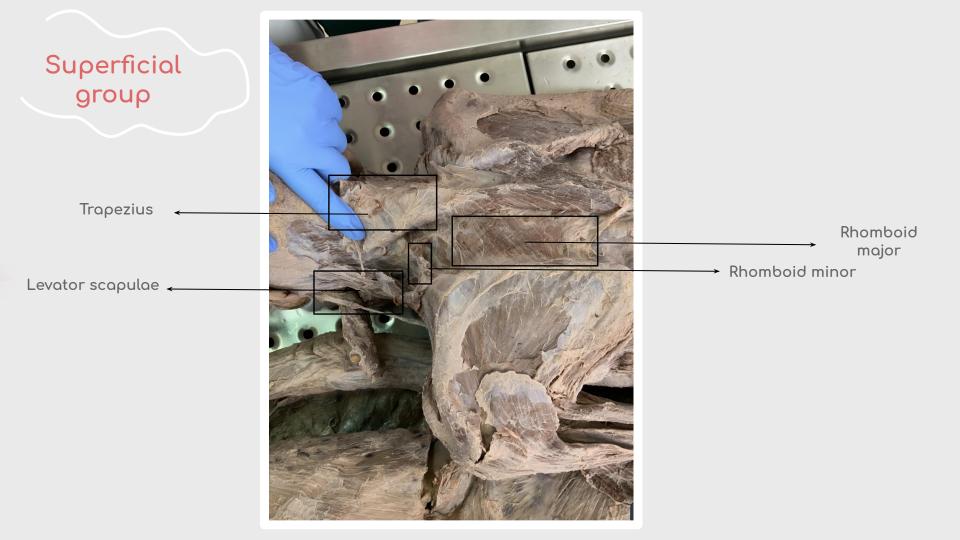
Action:

- 1- Adduction of upper limb.
- 2- Extension of upper limb.
- 3- Medial rotation of upper limb.

Nerve supply:

Thoracodorsal nerve (C6,C7,C8) from posterior cord of brachial plexus.







Insertion of muscles

Latissimus dorsi is inserted into the floor of intertubercular groove of humerus Levator scapulae & rhomboid minor & Rhomboid major are inserted into the medial border of the scapula



The muscle	Origin	insertion		Action	Nerve supply
Trapezius	- Back of the skull. - Ligamentum nuchae. - <u>C7 toT12.</u>	- lateral ⅓ of clavicle. - Acromion and Spine of scapula.		 <u>Elevation</u> of scapula by <u>upper</u> fibers. <u>Retraction</u> of scapula by <u>middle</u> fibers. <u>Depression</u> of scapula by <u>lower</u> fibers. 	-Spinal root of accessory nerve (11th cranial nerve)[MOTOR] - C3 & C4 of spinal nerves. [SENSORY]
Levator Scapulae	Cervical transverse processes <u>C1- C4.</u>	Medial border of scapula	<u>Above</u> the spine	Elevation of the scapula.	Dorsal scapular nerve.
Rhomboid Major	Thoracic spinous processes of <u>T2-T5</u> .		<u>Below</u> the spine	Retraction of scapula	
Rhomboid Minor	spinous processes of <u>C7 - T1</u>		<u>Opposite</u> the spine		
Latissimus Dorsi	 Spinous processes of <u>T7- T12.</u> Iliac crest. Thoracolumbar fascia. Inferior 3 or 4 ribs. inferior angle of scapula. 	Intertubercular (bicipital) groove of humerus.		Adduction, Extension, Medial rotation of upper limb.	Thoracodorsal nerve (C6,C7,C8) from posterior cord of brachial plexus.

Don't stop until you are proud.

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"This exhibition taught my students more than I could ever teach them with mere words."