



YMCA Awards

Level 3 Applied anatomy and physiology 2018



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Muscles of the shoulder girdle



Learning outcomes

By the end of this session you will be able to:

- Demonstrate knowledge of anterior skeletal muscles and the joints they cross
- Demonstrate knowledge of posterior skeletal muscles and the joints they cross



Trapezius



Origin

Back of skull: C7, all thoracic vertebrae

Insertion

Spine of scapula and lateral edge of clavicle

Joint crossed

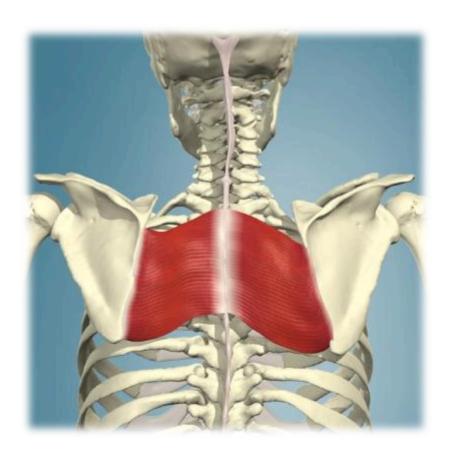
Shoulder girdle (moves scapula relative to rib cage)

Joint actions

Upper fibres elevate the shoulder girdle
Middle fibres retract shoulder girdle
Lower fibres depress shoulder girdle
Whole muscle upwardly rotates scapula
(works as a synergist with serratus anterior)



Rhomboids



Origin

Spinous processes of cervical and thoracic vertebrae (C7 and T1–T5)

Insertion

Medial border of scapula

Joint crossed

Shoulder girdle (moves scapula relative to rib cage)

Joint actions

Retracts scapula

Downwardly rotates scapula (works as a synergist with pectoralis minor)



Levator scapulae



Origin

Transverse processes of cervical vertebrae (C1–C4)

Insertion

Medial border of scapula, between superior angle and root of the spine of the scapula

Joint crossed

Shoulder girdle

Joint action

Elevates the scapula (origin fixed)
Assists in downwards rotation of scapula
Laterally flexes the neck (insertion fixed)



Serratus anterior



Origin

Front of ribs 1–8

Insertion

Anterior surface of medial border of scapula

Joint crossed

Shoulder girdle (moves scapula relative to rib cage)

Joint action

Protracts the scapula Upwardly rotates scapula (works as a synergist with trapezius)



Pectoralis minor



Origin

Front of ribs 3–5

Insertion

Coracoid process of scapula

Joint crossed

Shoulder girdle (moves scapula relative to rib cage)

Joint action

Protracts the scapula (origin fixed)
Downwardly rotates scapula (works as a synergist with rhomboids)
Elevates rib cage during breathing (insertion fixed)

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