

**muscles of the back**

the only muscle of upper limb has pelvic attachment  
 accessory muscle expiration  
 it has triple relation to teres major( it lies behind,below and in front)

**deep muscles of the back:**

**Latissimus dorsi**

**origin**  
 from lower 6 thoracic spines under cover of the trapezius  
 lumbar fascia  
 posterior part of outer lip of the iliac crest  
 the lower 3 ribs  
 the back of the inferior angle of the scapula

**insertion**  
 into the floor of the bicipital groove of the humerus

**nerve supply**  
 nerve to latissimus dorsi(thoracodorsal nerve) from posterior cord of the brachial plexus

**action**  
 adduction,extension and medial rotation of the arm (as teres major) used in swimming  
 it pulls the trunk towards the arm in climbing and gymnastics with pectoralis major  
 it assists in deep expiration (cough)

**Levator**

**origin** transverse processes of C1-C4

**insertion** dorsal surface of medial border of the scapula from superior angle to the spine

**nerve supply**  
 dorsal scapular nerve(nerve to rhomboideus C5)  
 nerve to levator scapulae from cervical plexus (C3&4)

**action**  
 elevates the scapula  
 tilts the neck to the same side when shoulder is fixed

**Rhomboid minor**

**origin** from the lower part of the ligamentum nuchae , spines of C7-T1

**insertion** dorsal aspect of medial border of scapula opposite root of spine

**nerve supply** dorsal scapular nerve (nerve to rhomboideus C5)

**action** retraction of the scapula

**Rhomboid major**

**origin** thoracic spines of T2,3,4,5

**insertion** dorsal aspect of medial border of scapula from spine to inferior angle

**nerve supply** dorsal scapular nerve (nerve to rhomboideus C5)

**action** retraction of the scapula

**Trapezius**

**origin**  
 external occipital protuberance  
 medial 1/3 of superior nuchal line  
 back of the skull  
 ligamentum nuchae  
 spine of the 7th cervical  
 back of the neck  
 all thoracic spines  
 back of the thorax

**insertion**  
 into posterior border of the lateral third of the clavicle  
 upper fibers  
 into medial border of the acromion of the scapula  
 middle fibers  
 into upper lip of the spine of the scapula  
 lower fibers

the muscles connect the vertebral column with the upper limb