

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

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
 back of the neck
 back of the thorax
 ligamentum nuchae
 spine of the 7th cervical
 all thoracic spines

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

nerve supply
 motor: spinal part of accessory nerve
 sensory: (proprioceptive sensation)from the cervical plexus

actions
 elevate the scapula upper fibers
 retract the scapula (adduction) middle fibers
 depress the scapula lower fibers
 middle and lower fibers abduct the arm more than 90 degree (with lower 5 digitations of the serratus anterior)

****wasting of the muscles leading to loss the normal lateral slope of the neck with drop shoulder on affected side**
N.B : its the only muscle of upper limb : a) arises from the skull b) nit supplied by the brachial plexus