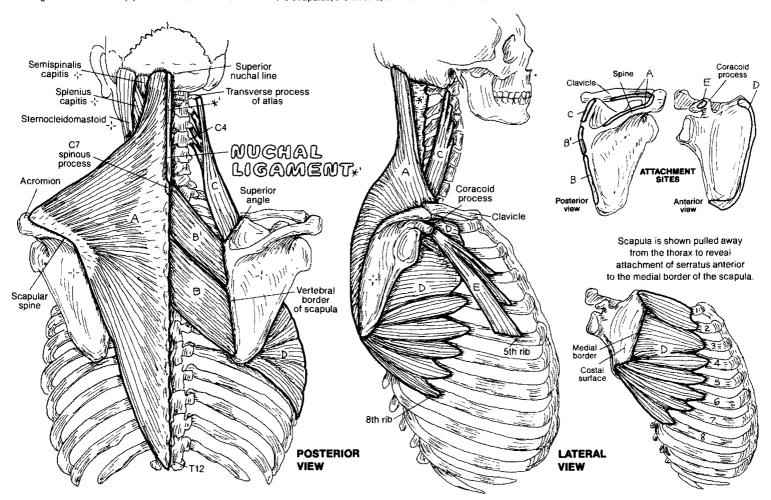
MUSCLES OF SCAPULAR STABILIZATION

TRAPEZIUS, RHOMBOID MAJOR RHOMBOID MINOR! LEVATOR SCAPULAE. SERRATUS AMTERIOR PECTORALIS MIMORE

CN: (1) Color the six muscles of scapular stabilization. Note that the two rhomboids receive the same color (B). In the two main views, color gray the nuchal ligament and its title. (2) Color the attachment site

diagrams at upper right. (3) In the illustrations below describing scapular movement, note that the three regions of trapezius (A) play different roles. Color gray the scapulae, the arrows, and the movement titles.

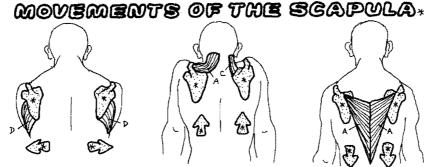


The scapula lies on the posterior thorax, roughly from T 2 to T 8. It has no direct bony attachment with the axial skeleton. Enveloped by muscle, it glides over the fascial-covered thorax during upper limb movement (scapulothoracic motion). Bursae have been reported between the thorax and the scapula; so has bursitis. The scapula is dynamically moored to the axial skeleton by muscles attaching the scapula to the axial skeleton. These muscles of scapular stabilization make possible considerable scapular mobility and, therefore, shoulder/arm mobility.

Note the roles of these 6 muscles in scapular movement, and note how the shoulder and arm are affected. Pectoralis minor assists serratus anterior in protraction of the scapula such as in pushing against a wall; it also helps in depression of the shoulder and downward rotation of the scapula. Consider the power resident in serratus anterior and trapezius in pushing or swinging a bat. Note the especially broad sites of attachment of the trapezius muscle. Trapezius commonly manifests significant tension with hard work-mental and physical. A brief massage of this muscle often brings quick relief.

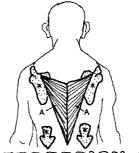


Military posture ("squaring the shoulders")



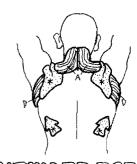
Pushing forward with outstretched arms and hands.

Shrugging the shoulders or protecting the head.



RETRACTION: PROTRACTION: ELEVATION: DEPRESSION: UPWARD ROT:

Straight arms on parallel bars, holding weight.



Lifting or reaching over head

