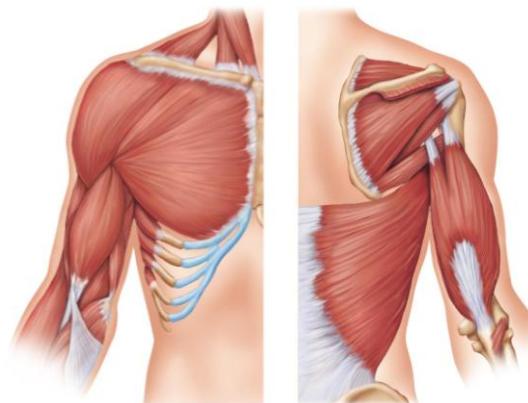


Muscles of the Upper Limb



Muscles Stabilizing Pectoral Girdle

Pectoralis minor

ORIGIN:

anterior surface of
ribs 3 – 5

INSERTION:

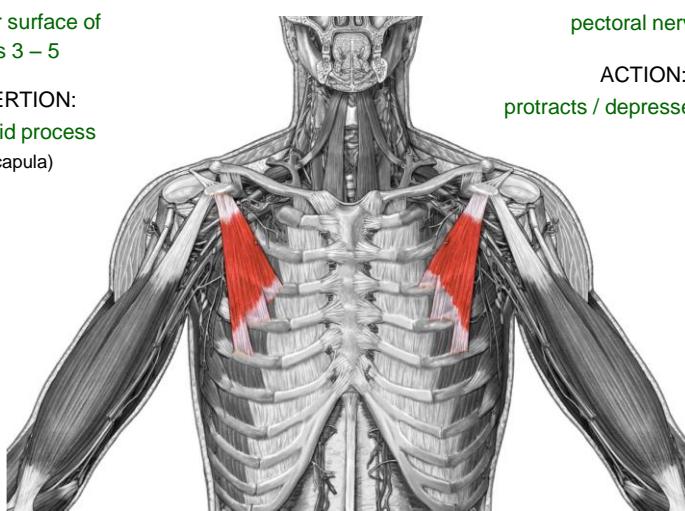
coracoid process
(scapula)

INNERVATION:

pectoral nerves

ACTION:

protracts / depresses scapula



(Anterior view)

Muscles Stabilizing Pectoral Girdle

Serratus anterior

ORIGIN:

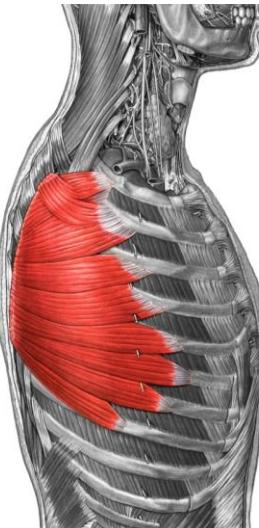
ribs 1 - 8

INSERTION:
medial border of scapula

INNERVATION:

long thoracic nerve

ACTION:
rotates scapula laterally



(Lateral view)

Muscles Stabilizing Pectoral Girdle

Subclavius

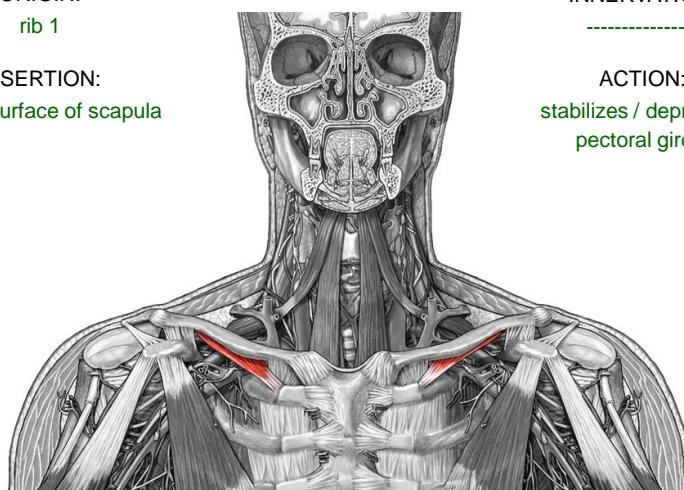
ORIGIN:

rib 1

INSERTION:
inferior surface of scapula

INNERVATION:

ACTION:
stabilizes / depresses
pectoral girdle



(anterior view)

Muscles Stabilizing Pectoral Girdle

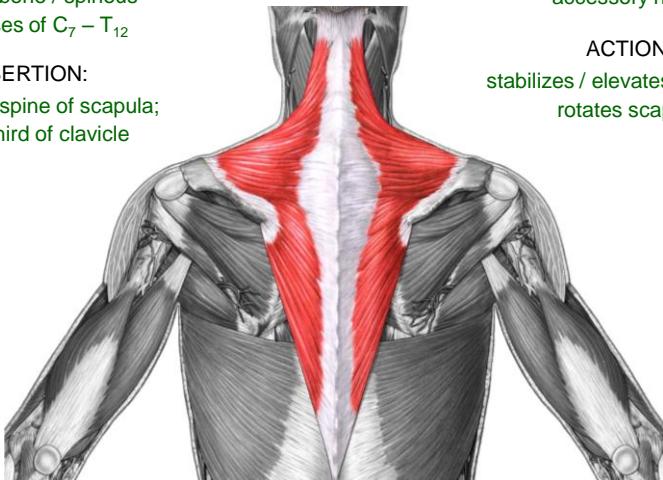
Trapezius

ORIGIN:
occipital bone / spinous processes of C₇ – T₁₂

INSERTION:
acromion / spine of scapula;
lateral third of clavicle

INNERVATION:
accessory nerve

ACTION:
stabilizes / elevates / retracts / rotates scapula



(Posterior view)

Muscles Stabilizing Pectoral Girdle

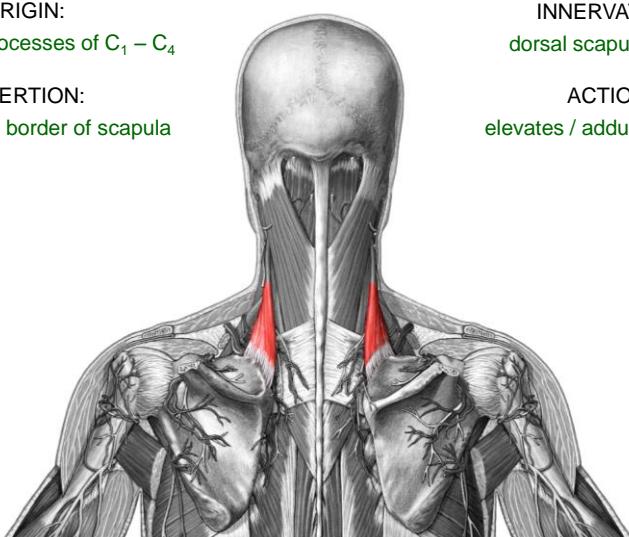
Levator scapulae

ORIGIN:
transverse processes of C₁ – C₄

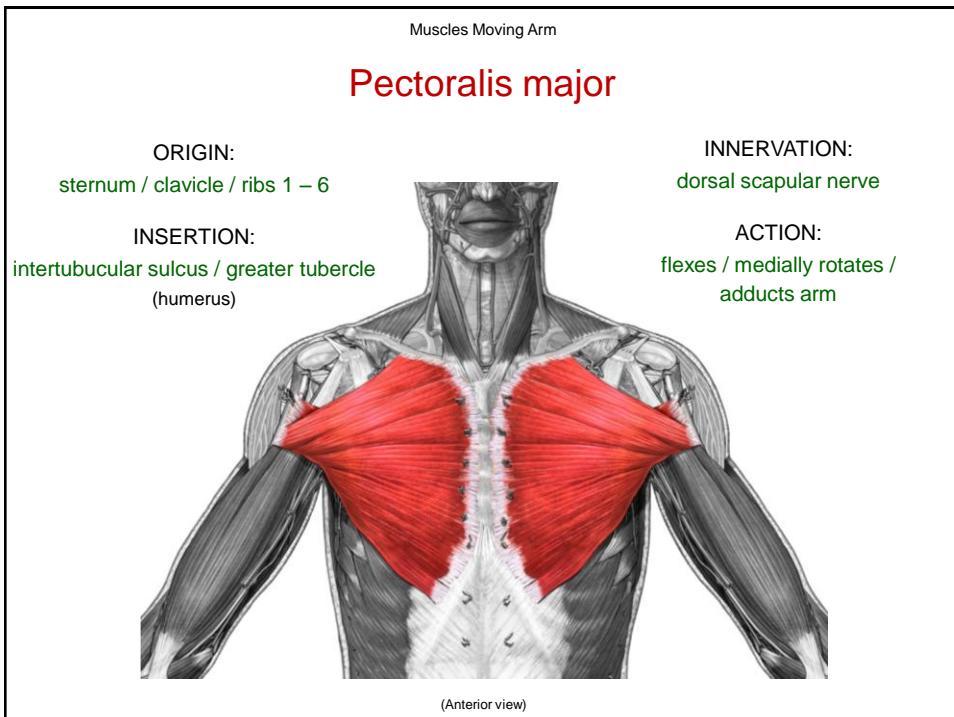
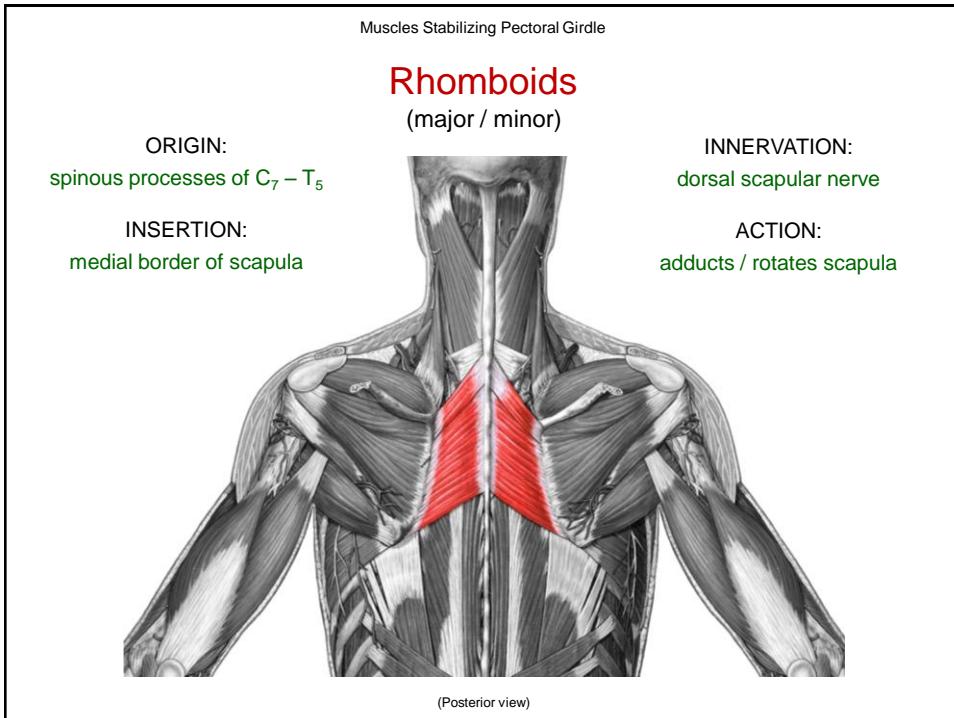
INSERTION:
upper medial border of scapula

INNERVATION:
dorsal scapular nerve

ACTION:
elevates / adducts scapula



(Posterior view)



Muscles Moving Arm

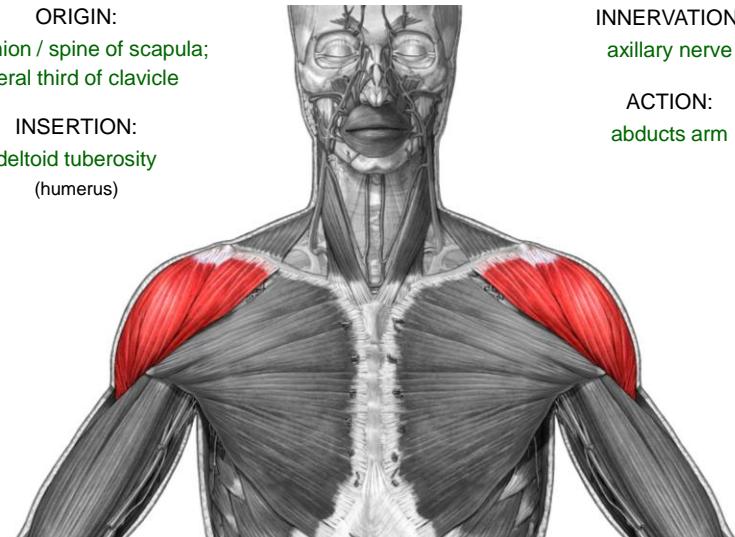
Deltoid

ORIGIN:
acromion / spine of scapula;
lateral third of clavicle

INSERTION:
deltoid tuberosity
(humerus)

INNERVATION:
axillary nerve

ACTION:
abducts arm



(Anterior view)

Muscles Moving Arm

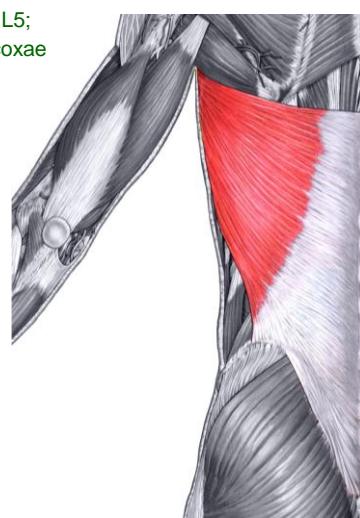
Latissimus dorsi

ORIGIN:
spinous processes of T7 – L5;
ribs 9 – 12; iliac crest of os coxae

INSERTION:
intertubercular groove
(humerus)

INNERVATION:
thoracodorsal nerve

ACTION:
extends / adducts arm



(Posterior view)

Muscles Moving Arm

Subscapularis

ORIGIN:

subscapular fossa
(scapula)

INSERTION:

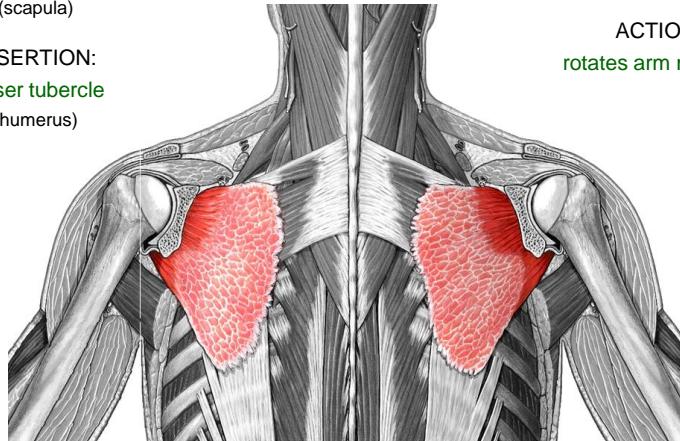
lesser tubercle
(humerus)

INNERVATION:

subscapular nerve

ACTION:

rotates arm medially



(Posterior view)

Muscles Moving Arm

Supraspinatus

ORIGIN:

supraspinous fossa
(scapula)

INSERTION:

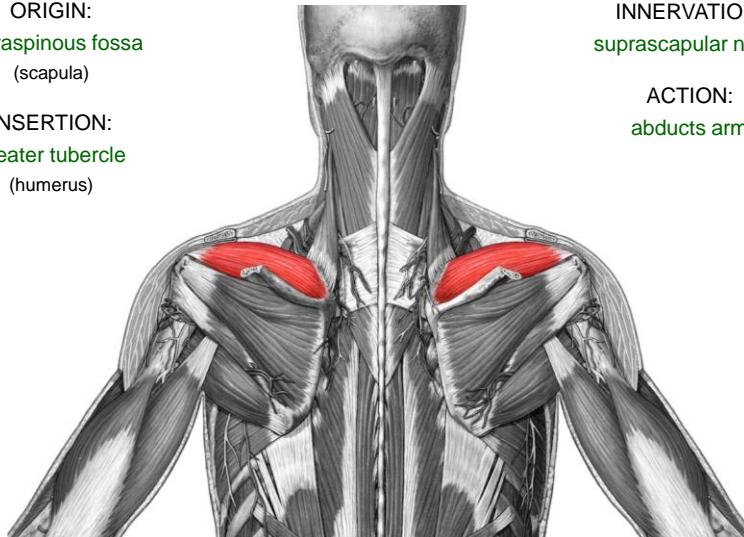
greater tubercle
(humerus)

INNERVATION:

suprascapular nerve

ACTION:

abducts arm



(Posterior view)

Muscles Moving Arm

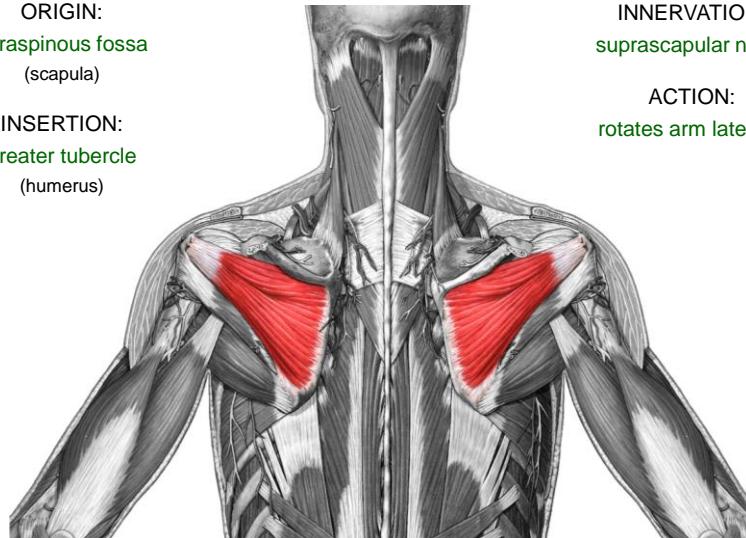
Infraspinatus

ORIGIN:
infraspinous fossa
(scapula)

INSERTION:
greater tubercle
(humerus)

INNERVATION:
suprascapular nerve

ACTION:
rotates arm laterally



(Posterior view)

Muscles Moving Arm

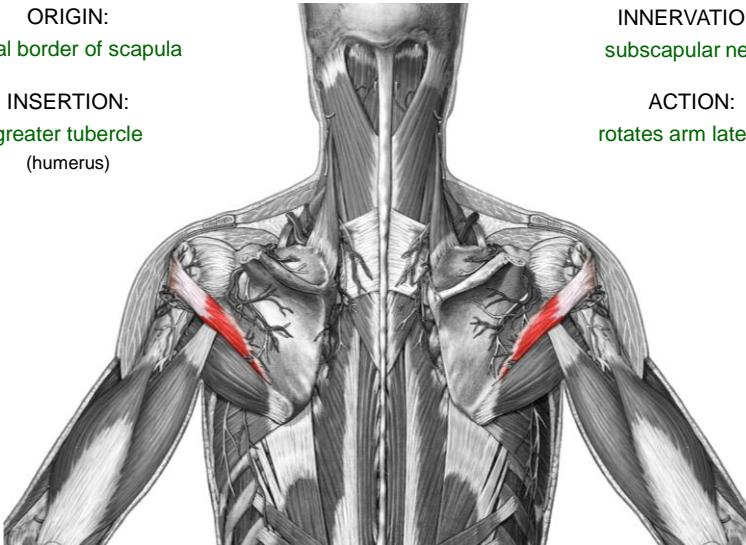
Teres minor

ORIGIN:
lateral border of scapula

INSERTION:
greater tubercle
(humerus)

INNERVATION:
subscapular nerve

ACTION:
rotates arm laterally



(Posterior view)

Muscles Moving Arm

Teres major

ORIGIN:
inferior border of scapula

INSERTION:
lesser tubercle
(humerus)

INNERVATION:
subscapular nerve

ACTION:
rotates arm medially;
adducts arm

(Posterior view)

Muscles Moving Arm

Coracobrachialis

ORIGIN:
coracoid process
(scapula)

INSERTION:
medial shaft of humerus

INNERVATION:
musculocutaneous nerve

ACTION:
flexes / adducts arm

(Anterior view)

Muscles Moving Forearm

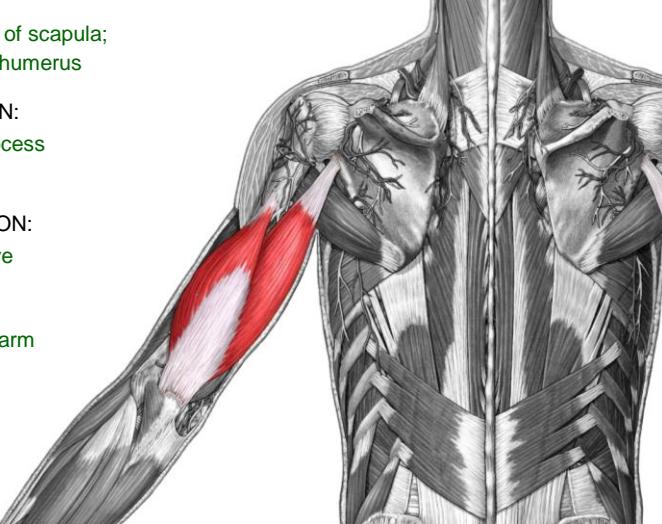
Triceps brachii

ORIGIN:
below glenoid cavity of scapula;
posterior shaft of humerus

INSERTION:
olecranon process
(ulna)

INNERVATION:
radial nerve

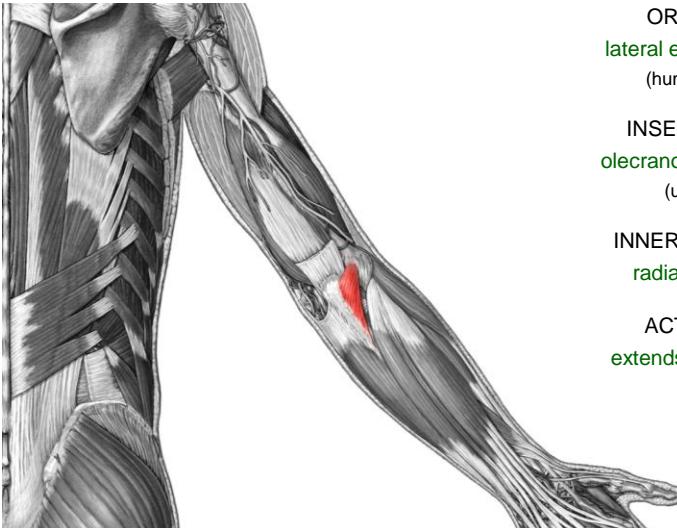
ACTION:
extends forearm



(Posterior view)

Muscles Moving Forearm

Anconeus



ORIGIN:
lateral epicondyle
(humerus)

INSERTION:
olecranon process
(ulna)

INNERVATION:
radial nerve

ACTION:
extends forearm

(Posterior view)

Muscles Moving Forearm

Biceps brachii**ORIGIN:**

coracoid process / body
(scapula)

INSERTION:

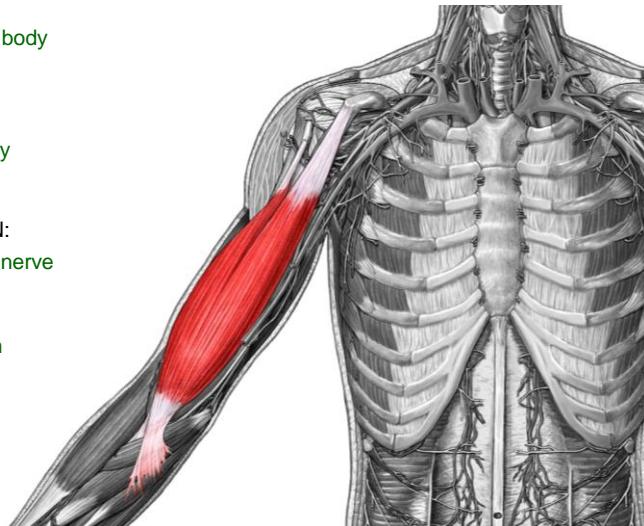
radial tuberosity
(radius)

INNERVATION:

musculocutaneous nerve

ACTION:

flexes forearm



(Anterior view)

Muscles Moving Forearm

Brachialis**ORIGIN:**

anterior face of distal humerus

INSERTION:

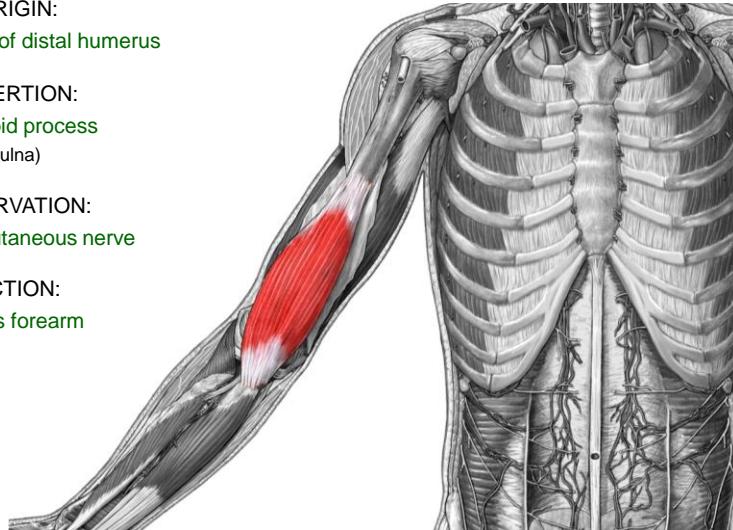
coronoid process
(ulna)

INNERVATION:

musculocutaneous nerve

ACTION:

flexes forearm



(Anterior view)

Muscles Moving Forearm

Brachioradialis

ORIGIN:
lateral epicondyle
(humerus)

INSERTION:
styloid process
(radius)

INNERVATION:
radial nerve

ACTION:
flexes forearm

(Anterior / Lateral view)

Muscles Moving Wrist, Hand, and Fingers

Pronator teres

ORIGIN:
medial epicondyle (humerus);
coronoid process (ulna)

INSERTION:
lateral shaft of radius

INNERVATION:
median nerve

ACTION:
pronates forearm

(Anterior view)

Muscles Moving Wrist, Hand, and Fingers

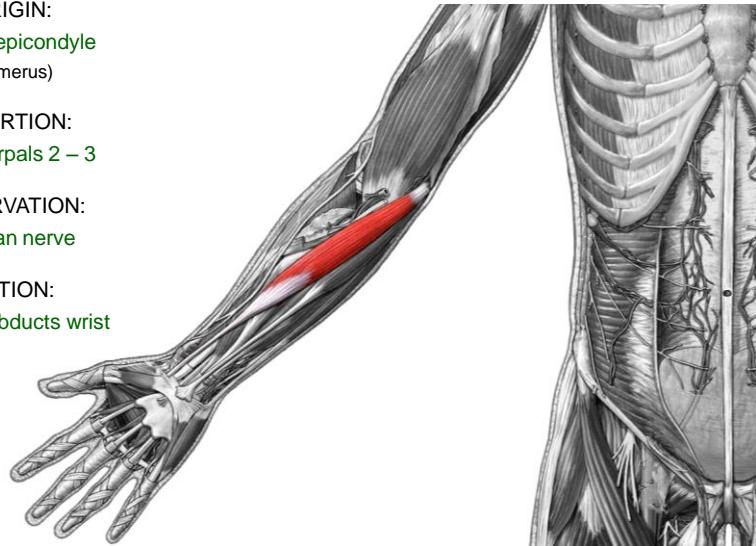
Flexor carpi radialis

ORIGIN:
medial epicondyle
(humerus)

INSERTION:
metacarpals 2 – 3

INNERVATION:
median nerve

ACTION:
flexes / abducts wrist



(Anterior view)

Muscles Moving Wrist, Hand, and Fingers

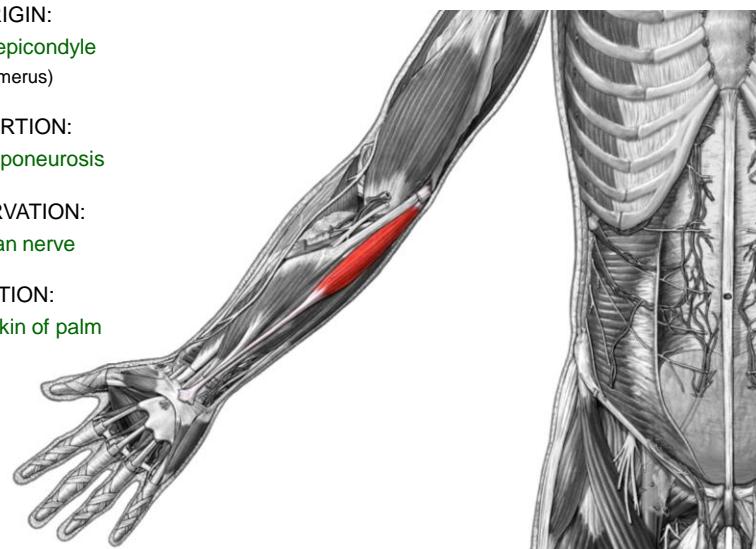
Palmaris longus

ORIGIN:
medial epicondyle
(humerus)

INSERTION:
palmar aponeurosis

INNERVATION:
median nerve

ACTION:
tenses skin of palm



(Anterior view)

Muscles Moving Wrist, Hand, and Fingers

Flexor carpi ulnaris

ORIGIN:

medial epicondyle (humerus);
olecranon process (ulna)

INSERTION:

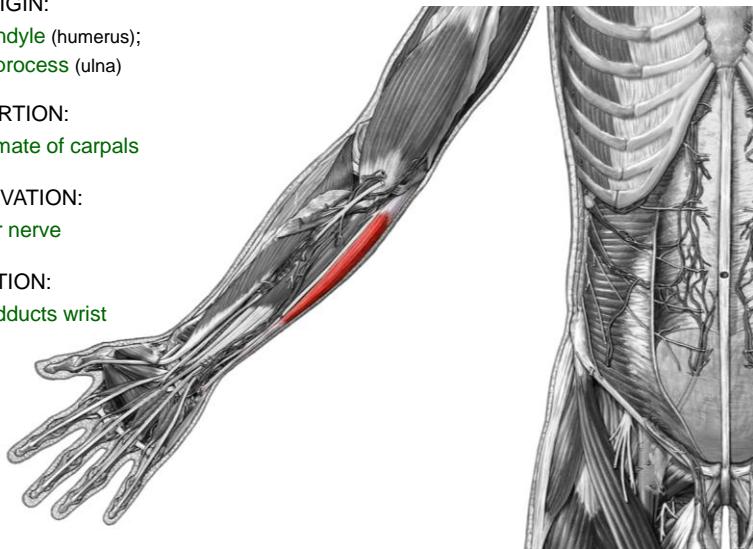
pisiform / hamate of carpals

INNERVATION:

ulnar nerve

ACTION:

flexes / adducts wrist



(Anterior view)

Muscles Moving Wrist, Hand, and Fingers

Flexor digitorum superficialis

ORIGIN:

medial epicondyle (humerus);
coronoid process (ulna);
shaft of radius

INSERTION:

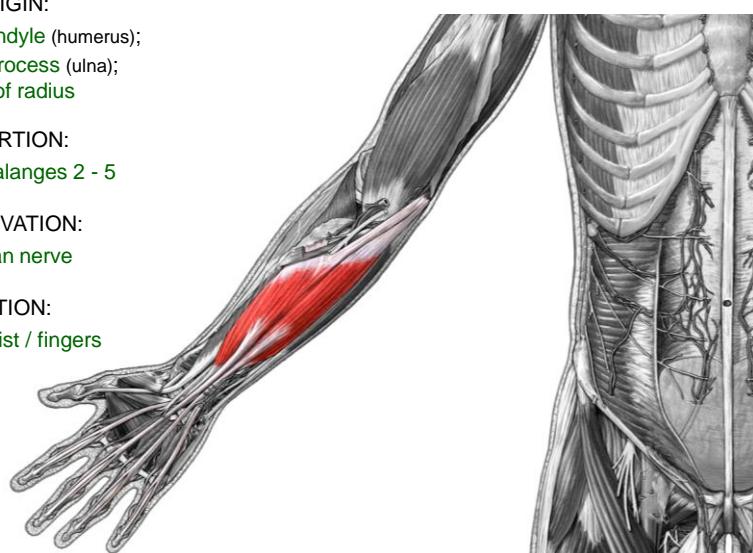
middle phalanges 2 - 5

INNERVATION:

median nerve

ACTION:

flexes wrist / fingers



(Anterior view)

Muscles Moving Wrist, Hand, and Fingers

Flexor digitorum profundus

ORIGIN:

coronoid process /
anteriolmedial surface (ulna)

INSERTION:

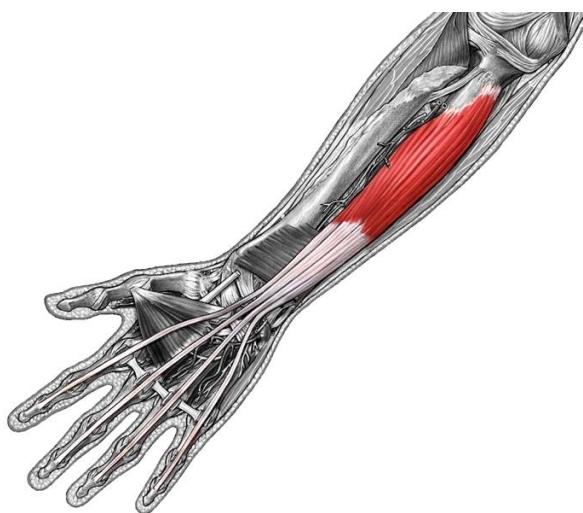
distal phalanges 2 - 5

INNERVATION:

ulnar / median nerves

ACTION:

flexes wrist / fingers



(Anterior view)

Muscles Moving Wrist, Hand, and Fingers

Flexor pollicis longus

ORIGIN:

anterior surface of radius

INSERTION:

distal phalanx of thumb

INNERVATION:

median nerve

ACTION:

flexes thumb



(Anterior view)

Muscles Moving Wrist, Hand, and Fingers

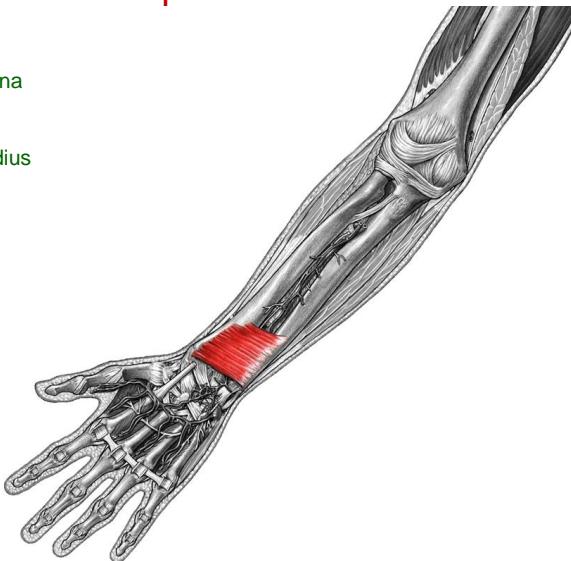
Pronator quadratus

ORIGIN:
distal surface of anterior ulna

INSERTION:
distal surface of anterior radius

INNERVATION:
median nerve

ACTION:
pronates forearm



(Anterior view)

Muscles Moving Wrist, Hand, and Fingers

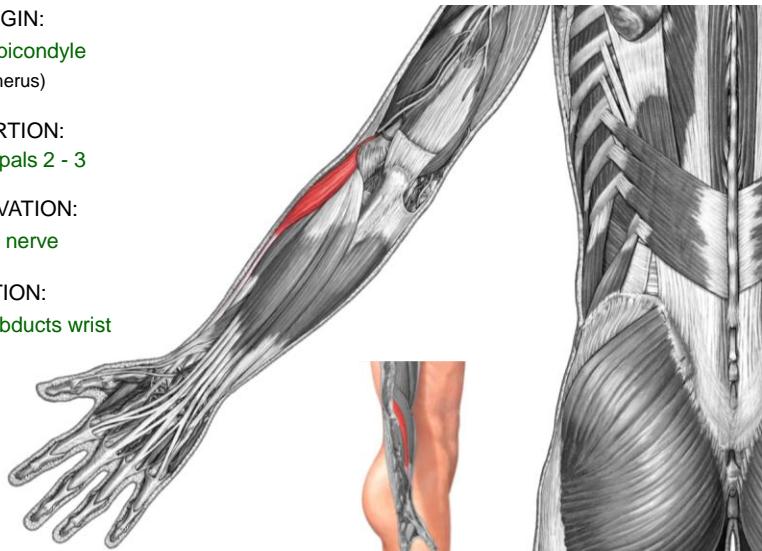
Extensor carpi radialis

ORIGIN:
lateral epicondyle
(humerus)

INSERTION:
metacarpals 2 - 3

INNERVATION:
radial nerve

ACTION:
extends / abducts wrist



(Posterior / Lateral view)

Muscles Moving Wrist, Hand, and Fingers

Extensor digitorum

ORIGIN:

lateral epicondyle
(humerus)

INSERTION:

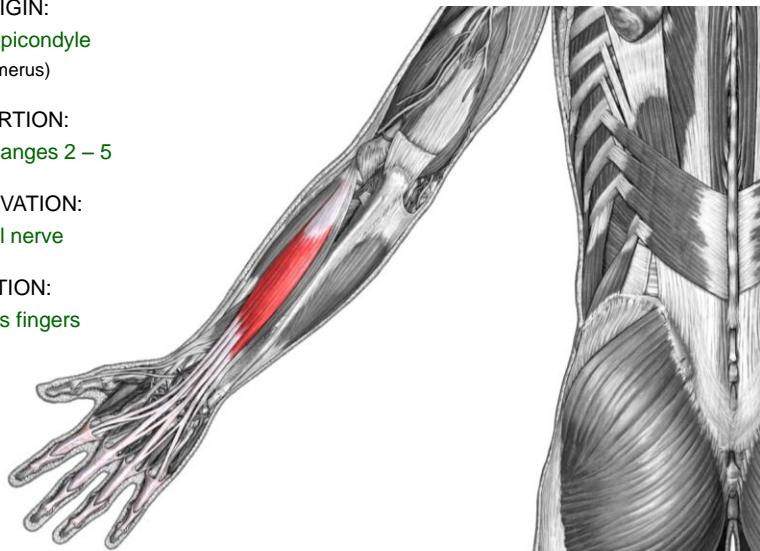
distal phalanges 2 – 5

INNERVATION:

radial nerve

ACTION:

extends fingers



(Posterior view)

Muscles Moving Wrist, Hand, and Fingers

Extensor carpi ulnaris

ORIGIN:

lateral epicondyle
(humerus)

INSERTION:

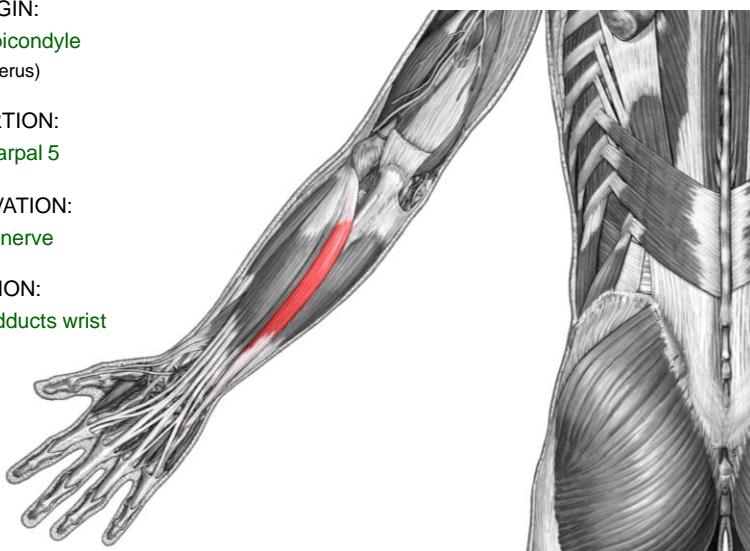
metacarpal 5

INNERVATION:

radial nerve

ACTION:

extends / adducts wrist



(Posterior view)

Muscles Moving Wrist, Hand, and Fingers

Supinator

ORIGIN:

lateral epicondyle (humerus);
proximal end of ulna

INSERTION:

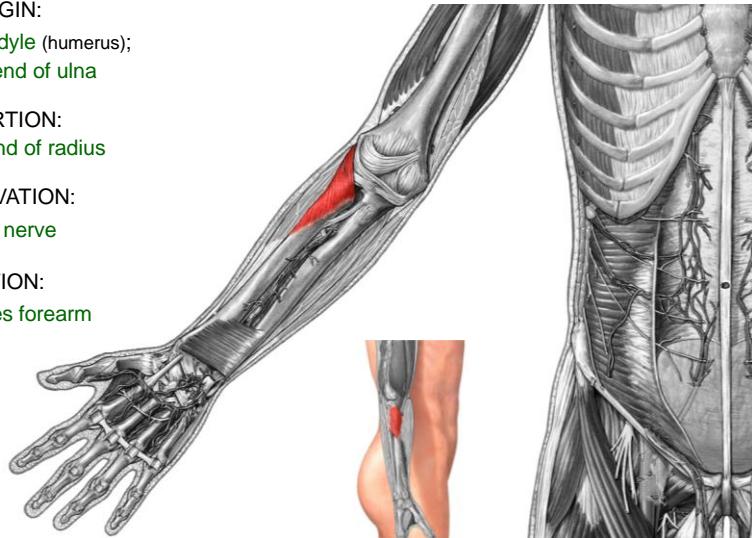
proximal end of radius

INNERVATION:

radial nerve

ACTION:

supinates forearm



(Anterior / Lateral view)

Muscles Moving Wrist, Hand, and Fingers

Abductor pollicis longus

ORIGIN:

posterior surface of radius / ulna

INSERTION:

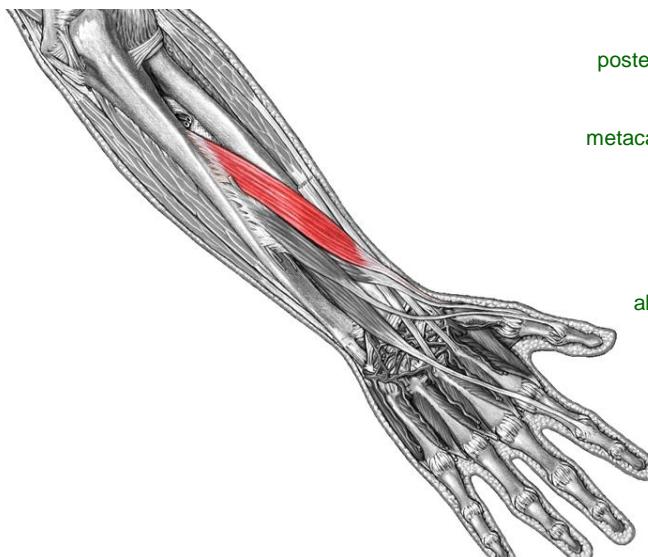
metacarpal 1; trapezium of carpal

INNERVATION:

radial nerve

ACTION:

abducts / extends thumb



(Posterior view)

Muscles Moving Wrist, Hand, and Fingers

Extensor pollicis

ORIGIN:

dorsal shaft of radius / ulna

INSERTION:

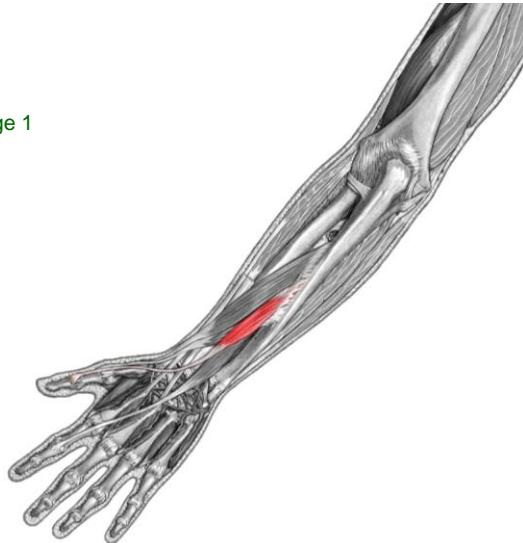
proximal / distal ends of phalange 1

INNERVATION:

radial nerve

ACTION:

extends thumb



(Posterior view)

Muscles Moving Wrist, Hand, and Fingers

Extensor indicis

ORIGIN:

posterior surface of distal ulna

INSERTION:

phalange 2

INNERVATION:

radial nerve

ACTION:

extends index finger



(Posterior view)