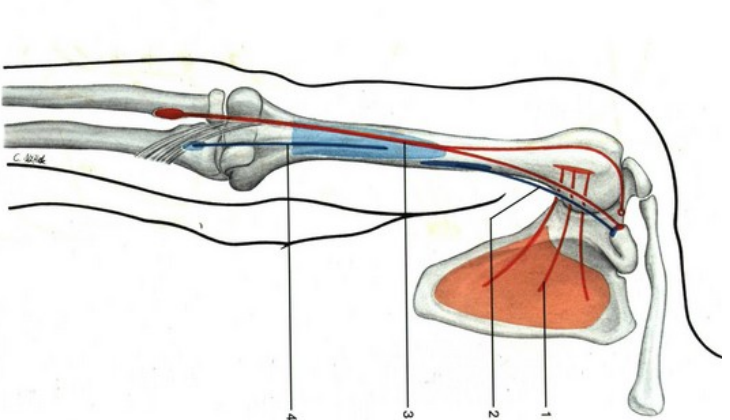


Flexor muscles of right arm (ventral aspect).
Part of the biceps brachii muscle has been removed. Arrow: tendon of long head of biceps brachii muscle.

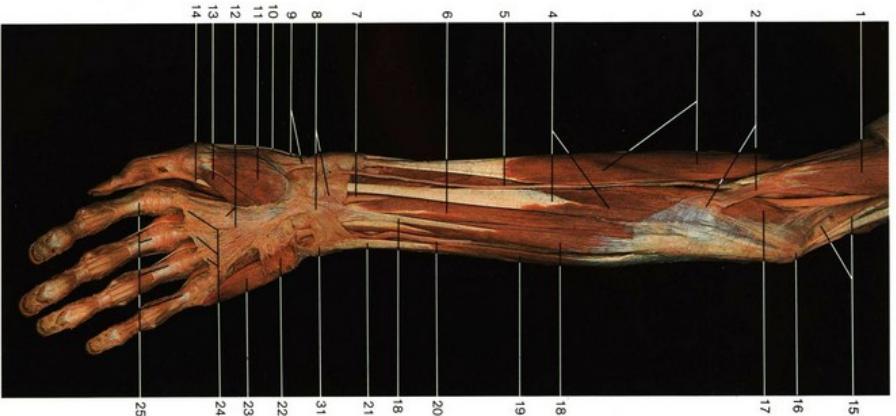
- 1 Acromial part of deltoid muscle (central fibers)
- 2 Scapular part of deltoid muscle (posterior fibers)
- 3 Triceps brachii muscle
- 4 Tendon of triceps brachii muscle
- 5 Olecranon
- 6 Clavicular part of deltoid muscle (anterior fibers)
- 7 Deltoscapular groove
- 8 **Biceps brachii muscle**
- 9 **Brachialis muscle**
- 10 **Brachioradialis muscle**
- 11 Extensor carpi radialis longus muscle
- 12 Clavicle (divided)
- 13 Pectoralis major muscle
- 14 Medial intermuscular septum with vessels and nerves
- 15 Lateral intermuscular septum
- 16 Tendon of biceps brachii muscle
- 17 Bicipital aponeurosis



Position and course of flexors of arm. (Schematic drawing.)

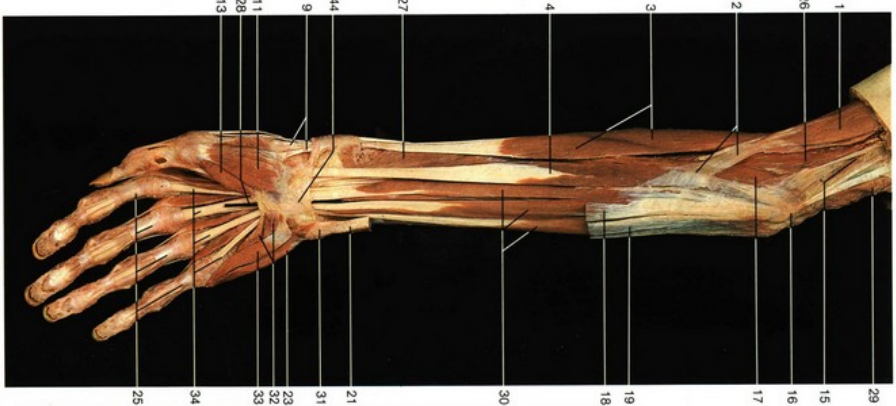
- 1 Subscapularis muscle (red)
- 2 Coracobrachialis muscle (blue)
- 3 Biceps brachii muscle (red)
- 4 Brachialis muscle (blue)

- 18 Axillary artery
- 19 Rhomboid major muscle
- 20 **Subscapularis muscle**
- 21 Latissimus dorsi muscle (divided)
- 22 Medial intermuscular septum
- 23 Medial epicondyle of humerus
- 24 Brachial artery and median nerve
- 25 Pronator teres muscle
- 26 Tendon of short head of biceps brachii muscle
- 27 Coracobrachialis muscle
- 28 Distal part of biceps brachii muscle
- 29 Teres major muscle
- 30 Long head of triceps brachii muscle
- 31 Medial head of triceps brachii muscle
- 32 Radius
- 33 Ulna
- 34 Scapula



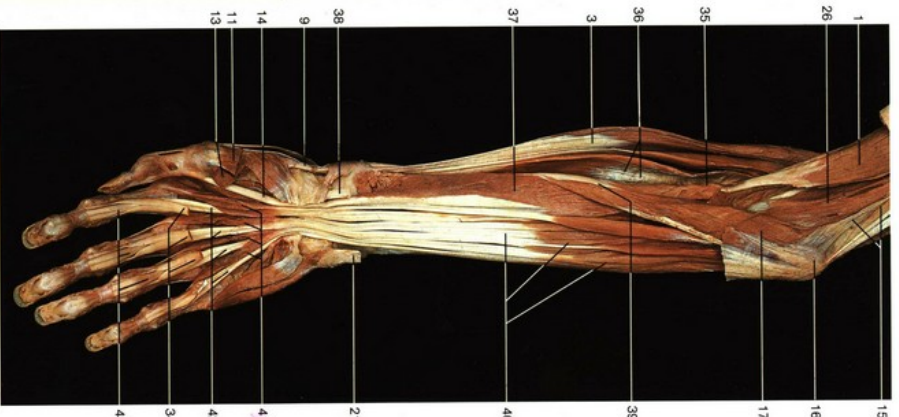
Forearm muscles, superficial layer (ventral aspect).

- 1 Biceps brachii muscle
- 2 Bicipital aponeurosis
- 3 **Brachioradialis muscle**
- 4 **Flexor carpi radialis muscle**
- 5 Radial artery
- 6 **Flexor digitorum superficialis muscle**
- 7 Median nerve
- 8 Antibrachial fascia and tendon of palmaris longus muscle
- 9 Tendon of abductor pollicis longus muscle
- 10 Tendon of extensor pollicis brevis muscle
- 11 Abductor pollicis brevis muscle



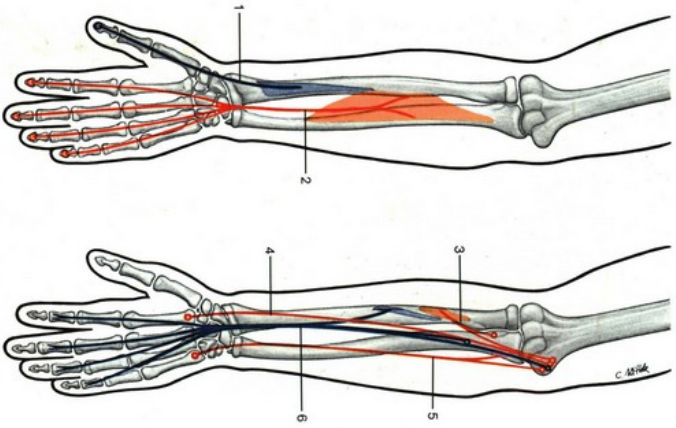
Forearm muscles, superficial layer (ventral aspect). The palmaris longus and flexor carpi ulnaris muscles have been removed.

- 12 **Palmar aponeurosis**
- 13 Superficial head of flexor pollicis brevis muscle
- 14 Tendon of flexor pollicis longus muscle
- 15 Medial intermuscular septum
- 16 Medial epicondyle of humerus
- 17 Humeral head of pronator teres muscle
- 18 **Palmaris longus muscle**
- 19 **Flexor carpi ulnaris muscle**
- 20 Ulnar artery
- 21 Tendon of flexor carpi ulnaris muscle
- 22 Palmaris brevis muscle



Forearm muscles, middle layer (ventral aspect). The palmaris longus, flexor carpi radialis and ulnaris muscles have been partly removed. The flexor retinaculum has been divided.

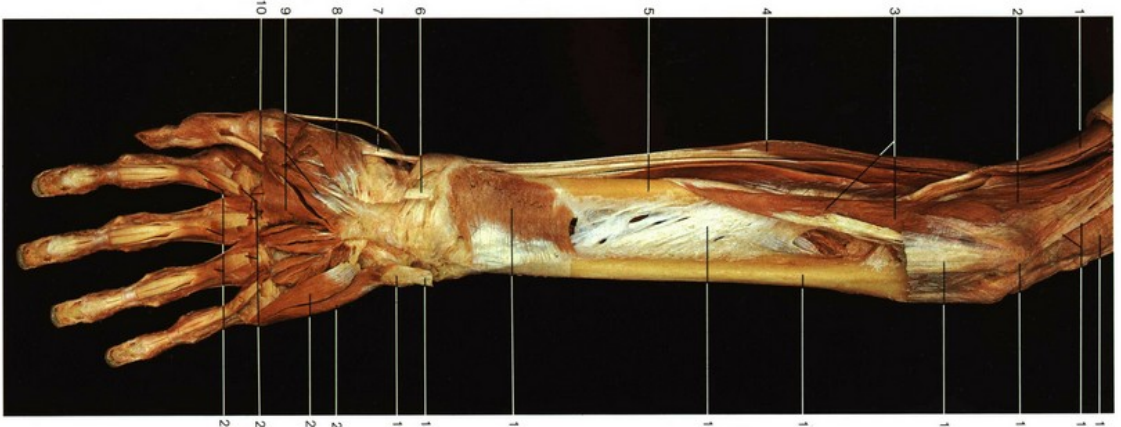
- 23 Abductor digiti minimi muscle
- 24 Transverse fasciculi of palmar aponeurosis
- 25 Digital fibrous sheaths of tendons of flexor digitorum muscle
- 26 Brachialis muscle
- 27 Flexor pollicis longus muscle
- 28 Carpal tunnel (canalis carpi, probe)
- 29 Triquetrum muscle
- 30 Flexor digitorum superficialis muscle
- 31 Pisiform bone
- 32 Opponens digiti minimi muscle
- 33 Flexor digiti minimi brevis muscle
- 34 Tendons of flexor digitorum superficialis muscle



Position of flexors of fingers and hand. (Schematic drawing.)

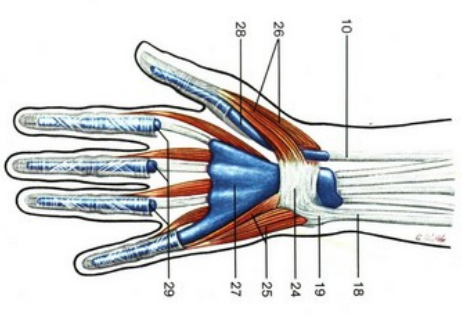
- A Deep layer
- B Superficial layer
- 1 Flexor pollicis longus muscle (blue)
- 2 Flexor digitorum profundus muscle (red)
- 3 Pronator teres muscle (red)
- 4 Flexor carpi radialis muscle (red)
- 5 Flexor carpi ulnaris muscle (red)
- 6 Flexor digitorum superficialis muscle (blue)

- 35 Supinator muscle
- 36 Extensor carpi radialis brevis muscle
- 37 Flexor pollicis longus muscle
- 38 Tendon of flexor carpi radialis muscle
- 39 Pronator teres muscle (insertion of radius)
- 40 Flexor digitorum profundus muscle
- 41 Lumbrical muscles
- 42 Tendons of flexor digitorum profundus muscle
- 43 Tendons of flexor digitorum profundus muscle having passed through the divided tendons of the flexor digitorum superficialis muscle
- 44 Flexor retinaculum

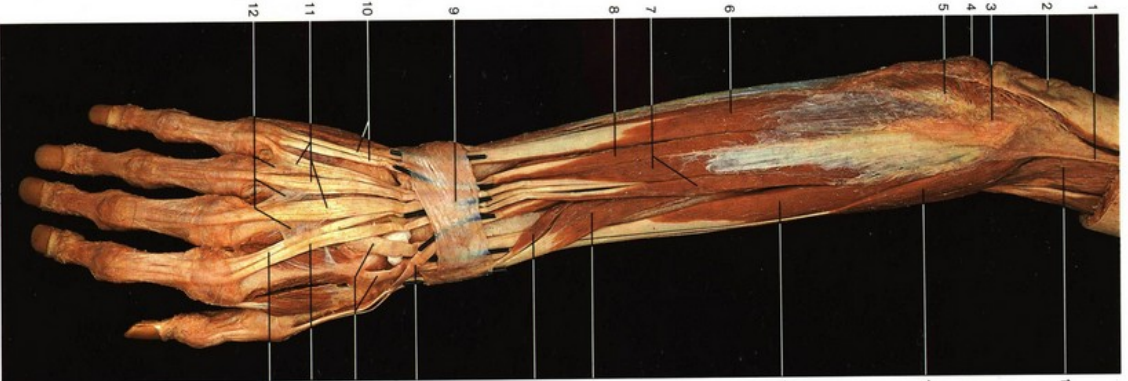


Muscles of the forearm, deep layer (ventral aspect). All flexors have been removed to display the pronator quadratus and pronator teres muscles together with the interosseous membrane. Forearm in supination.

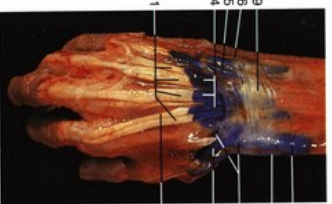
- 1 Biceps brachii muscle
- 2 Brachialis muscle
- 3 **Pronator teres muscle**
- 4 Brachioradialis muscle
- 5 **Radius**
- 6 Tendon of flexor carpi radialis muscle
- 7 Tendon of abductor pollicis longus muscle
- 8 Opponens pollicis muscle
- 9 Adductor pollicis muscle
- 10 Tendon of flexor pollicis longus muscle
- 11 Triceps brachii muscle
- 12 Medial intermuscular septum
- 13 Medial epicondyle of humerus
- 14 Common flexor mass (divided)
- 15 **Ulna**
- 16 **Interosseous membrane**
- 17 **Pronator quadratus muscle**
- 18 Tendon of flexor carpi ulnaris muscle
- 19 Pisiform bone
- 20 Abductor digiti minimi muscle
- 21 Flexor digiti minimi brevis muscle
- 22 Tendons of flexor digitorum profundus muscle
- 23 Tendons of flexor digitorum superficialis muscle
- 24 Flexor retinaculum
- 25 Hypothenar muscles
- 26 Thenar muscles
- 27 Common synovial sheath of flexor tendons
- 28 Synovial sheath of tendon of flexor pollicis longus muscle
- 29 Digital synovial sheaths of flexor tendons



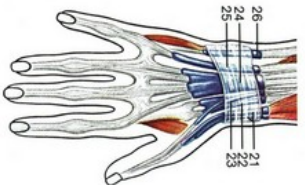
Synovial sheaths of flexor tendons (palmar aspect of right hand). (Schematic drawing.)



Extensor muscles of forearm and hand, superficial layer
(dorsal aspect). Tunnels for extensor tendons indicated by probes.

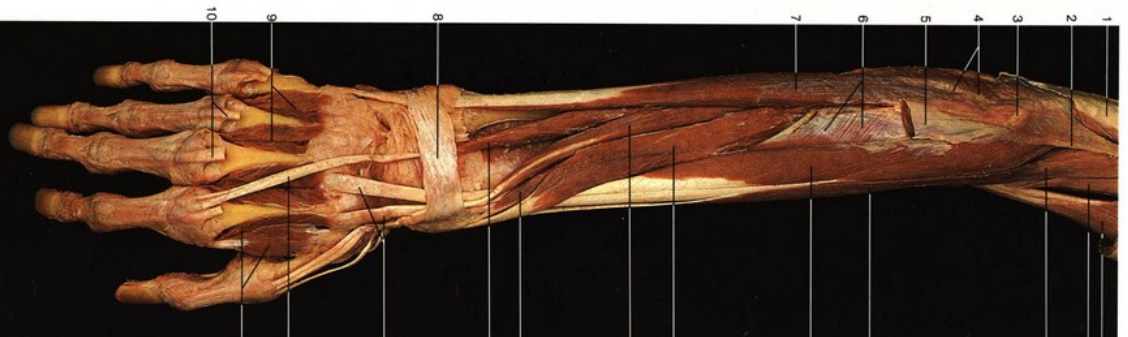


Synovial sheaths of extensor tendons. The sheaths have been injected with blue gelatin.



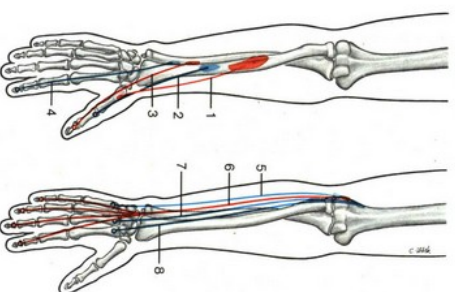
Synovial sheaths of extensor tendons (on the back of right wrist (indicated in blue)). Notice the six tunnels for the passage of the extensor tendons beneath the extensor retinaculum. (Schematic drawing.)

- 1 Lateral intermuscular septum
- 2 Tendon of triceps brachii muscle
- 3 Lateral epicondyle of humerus
- 4 Olecranon
- 5 Anconeus
- 6 Extensor carpi ulnaris muscle
- 7 Extensor digitorum muscle
- 8 Extensor digiti minimi muscle
- 9 Extensor retinaculum
- 10 Tendons of extensor digiti minimi muscle
- 11 Tendons of extensor digitorum muscle
- 12 Interosseous connections
- 13 Brachioradialis muscle
- 14 Extensor carpi radialis longus muscle
- 15 Extensor carpi radialis brevis muscle
- 16 Abductor pollicis longus muscle
- 17 Extensor pollicis longus muscle
- 18 Tendon of extensor pollicis longus muscle
- 19 Tendons of both extensor carpi radialis longus and extensor carpi radialis brevis muscles
- 20 Tendon of extensor indicis muscle
- 21 1st tunnel: Abductor pollicis longus muscle
- 22 2nd tunnel: Extensor carpi radialis longus and brevis muscles
- 23 3rd tunnel: Extensor pollicis longus muscle
- 24 4th tunnel: Extensor digitorum muscle
- 25 5th tunnel: Extensor digiti minimi muscle
- 26 6th tunnel: Extensor carpi ulnaris muscle

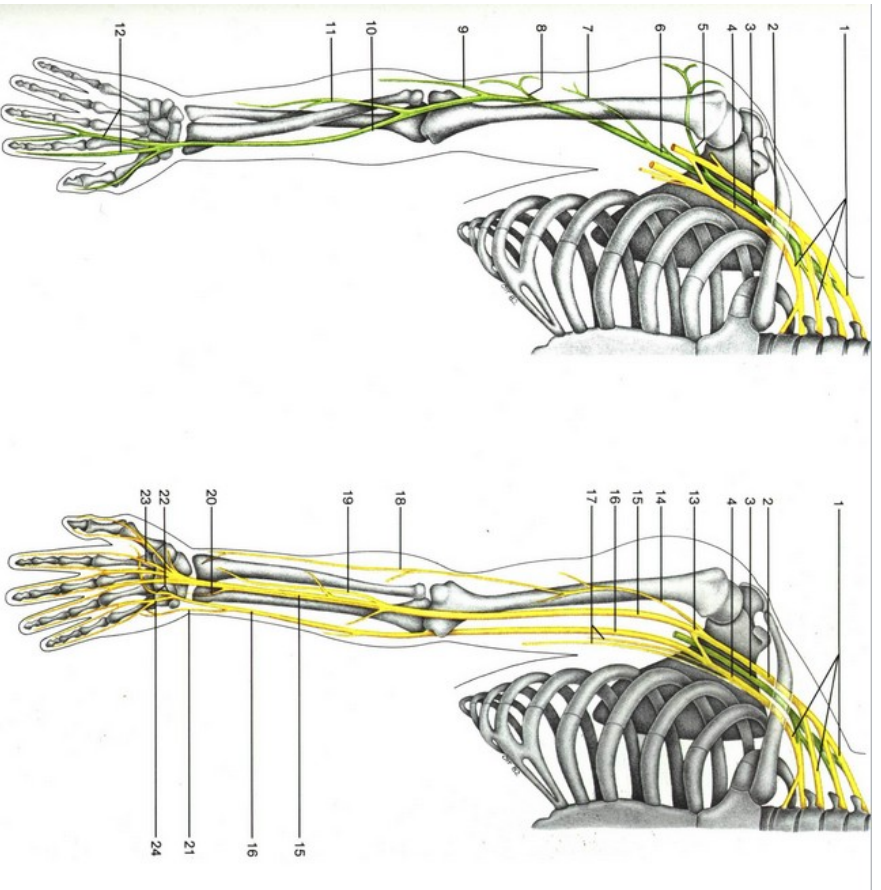


Extensor muscles of forearm and hand, deep layer
(dorsal aspect).

- 1 Triceps brachii muscle
- 2 Lateral intermuscular septum
- 3 Lateral epicondyle of humerus
- 4 Anconeus muscle
- 5 Extensor digitorum and extensor digiti minimi muscles (cut)
- 6 Supinator muscle
- 7 Extensor carpi ulnaris muscle
- 8 Extensor retinaculum
- 9 3rd and 4th dorsal interosseous muscles
- 10 Tendons of extensor digitorum muscle (cut)
- 11 Biceps brachii muscle
- 12 Brachialis muscle
- 13 Brachioradialis muscle
- 14 Extensor carpi radialis longus muscle
- 15 Extensor carpi radialis brevis muscle
- 16 Abductor pollicis longus muscle
- 17 Extensor pollicis longus muscle
- 18 Extensor pollicis brevis muscle
- 19 Extensor indicis muscle
- 20 Tendons of the extensor carpi radialis longus and extensor carpi radialis brevis muscles
- 21 1st dorsal interosseous muscle



- Position of extensor muscles of forearm and hand.** (Schematic drawing.)
- | | | | |
|---|---|--|--|
| A Extensors of thumb | | B Extensors of fingers and hand | |
| 1 Abductor pollicis longus muscle (red) | 2 Extensor pollicis brevis muscle (red) | 5 Extensor carpi ulnaris muscle (blue) | 6 Extensor digitorum muscle (red) |
| 3 Extensor pollicis longus muscle (red) | 4 Extensor indicis muscle (blue) | 7 Extensor carpi radialis brevis muscle (blue) | 8 Extensor carpi radialis longus muscle (blue) |



Main branches of radial nerve. (Schematic drawing.)
Posterior divisions of trunks and posterior cord and its branches are indicated in green.

- 1 Brachial plexus
- 2 Lateral cord of brachial plexus
- 3 Posterior cord of brachial plexus
- 4 Medial cord of brachial plexus
- 5 Axillary nerve
- 6 Radial nerve
- 7 Posterior cutaneous nerve of arm
- 8 Lower lateral cutaneous nerve of arm
- 9 Posterior cutaneous nerve of forearm
- 10 Superficial branch of radial nerve
- 11 Deep branch of radial nerve
- 12 Dorsal digital nerves

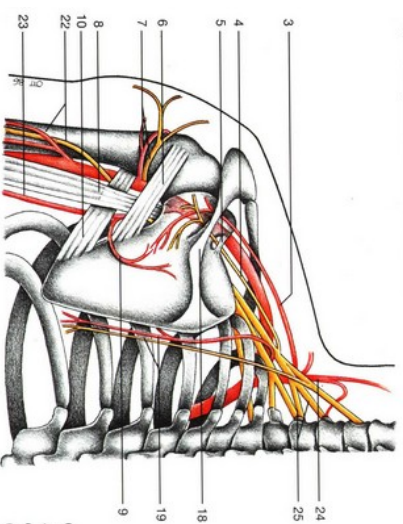
Main branches of musculocutaneous, median and ulnar nerves. (Schematic drawing.)
Anterior divisions of the trunks and all the components arising from them are indicated in yellow.

- 13 Roots of median nerve
- 14 Musculocutaneous nerve
- 15 Median nerve
- 16 Ulnar nerve
- 17 Medial cutaneous nerves of arm and forearm
- 18 Lateral cutaneous nerve of forearm
- 19 Anterior interosseous nerve
- 20 Palmar branch of median nerve
- 21 Deep branch of ulnar nerve
- 22 Common palmar digital nerves of median nerve
- 23 Superficial branch of ulnar nerve



Dorsal region of shoulder; deepest layer. Rhomboid and scapular muscles fenestrated; posterior part of deltoid muscle reflected.

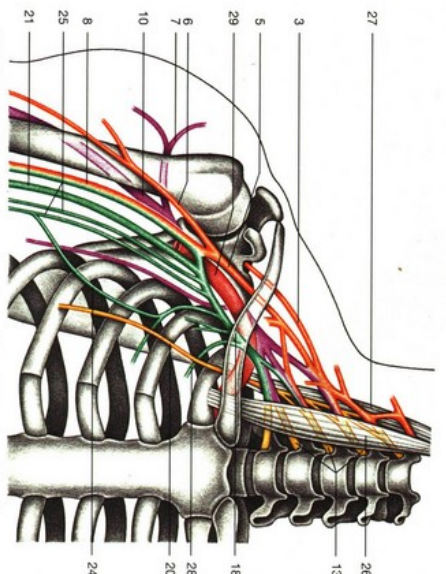
- 1 Clavicle
- 2 Deltoid muscle
- 3 **Suprascapular artery**
- 4 Suprascapular nerve
- 5 Superior transverse scapular ligament
- 6 Teres minor muscle
- 7 Axillary nerve and posterior circumflex humeral artery
- 8 Long head of triceps muscle
- 9 **Circumflex scapular artery**
- 10 Teres major muscle
- 11 Greater occipital nerve
- 12 Lesser occipital nerve
- 13 Great auricular nerve
- 14 Splenius capitis muscle
- 15 Accessory nerve (n. XI)
- 16 Third occipital nerve and levator scapulae muscle
- 17 Serratus posterior superior muscle
- 18 Spine of scapula
- 19 Descending scapular artery and dorsal scapular nerve
- 20 Rhomboid major muscle
- 21 Infraspinatus muscle and medial margin of scapula
- 22 Radial nerve and profunda brachii artery
- 23 Thoracodorsal artery
- 24 Thyrocervical trunk
- 25 Roots of brachial plexus



Collateral circulation of shoulder.
Anastomosis of suprascapular and circumflex scapular arteries. (Schematic drawing.)



Brachial plexus (anterior aspect). Clavicle and the two pectoralis muscles have been partly removed.



Main branches of brachial plexus. Posterior cord in red, lateral cord in yellow and medial cord in purple. (Schematic drawing.)

- 1 Accessory nerve
- 2 Dorsal scapular artery
- 3 Suprascapular nerve
- 4 Clavicle and pectoralis minor muscle
- 5 **Lateral cord of brachial plexus**
- 6 Musculocutaneous nerve
- 7 Axillary nerve
- 8 Median nerve
- 9 Brachial artery
- 10 Radial nerve
- 11 Cervical plexus
- 12 Common carotid artery
- 13 Roots of brachial plexus (C₅-T₁)
- 14 Phrenic nerve
- 15 Dorsal scapular artery
- 16 Subclavian artery
- 17 **Posterior cord of brachial plexus**
- 18 **Medial cord of brachial plexus**
- 19 Subscapular artery
- 20 Long thoracic nerve
- 21 Ulnar nerve
- 22 Medial cutaneous nerve of forearm
- 23 Thoracoacromial nerve
- 24 Intercostobrachial nerve
- 25 Medial cutaneous nerves of arm and forearm
- 26 Scalenus anterior muscle
- 27 Scalenus medius muscle
- 28 Intercostal nerve (T₁)
- 29 Axillary artery

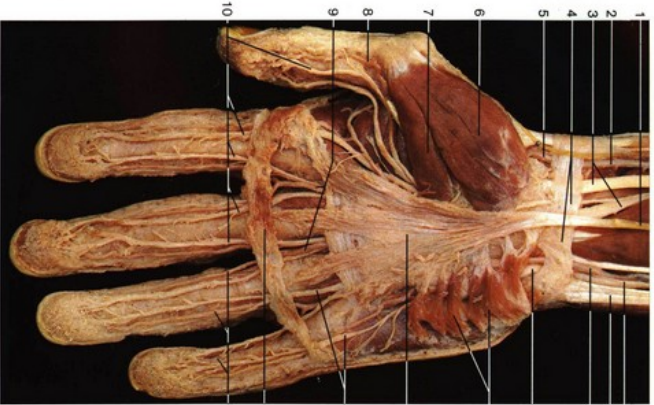


Right arm. Dissection of vessels and nerves (medial aspect). Shoulder girdle has been reflected slightly.



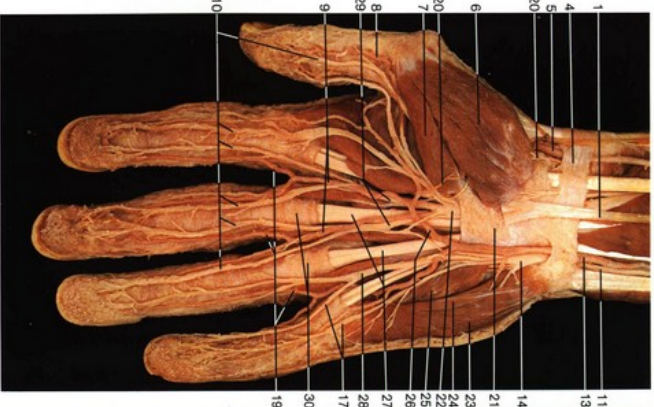
Right arm. Dissection of vessels and nerves, deeper layer. Biceps muscle has been reflected.

- 1 Radial artery and superficial branch of radial nerve
- 2 Lateral cutaneous nerve of forearm
- 3 Brachioradialis muscle
- 4 Ulnar artery
- 5 Tendon of biceps brachii muscle
- 6 Brachialis muscle
- 7 Pronator teres muscle
- 8 **Median nerve**
- 9 Medial epicondyle of humerus
- 10 Inferior ulnar collateral artery
- 11 **Ulnar nerve**
- 12 Medial cutaneous nerve of forearm
- 13 **Brachial artery**
- 14 Biceps brachii muscle
- 15 Intercostobrachial nerve (T₁)
- 16 Latissimus dorsi muscle
- 17 Thoracoacromial nerve and artery
- 18 Serratus anterior muscle
- 19 Subscapular artery
- 20 Pectoralis major muscle (reflected) and lateral pectoral nerve
- 21 Radial nerve and profunda brachii artery
- 22 Axillary nerve
- 23 Roots of the median nerve with axillary artery
- 24 **Musculocutaneous nerve**
- 25 Pectoralis minor muscle (reflected) and medial pectoral nerve
- 26 Posterior cord of brachial plexus
- 27 Clavicle (cut)
- 28 Lateral cord of brachial plexus
- 29 Medial cord of brachial plexus
- 30 Subclavian artery
- 31 Brachial vein



Right hand, superficial layer, dissection of vessels and nerves (palmar aspect).

- 1 Tendon of palmaris longus muscle
- 2 **Radial artery**
- 3 Tendon of flexor carpi radialis muscle and median nerve
- 4 Distal part of antebrachial fascia
- 5 Radial artery passing into the anatomical snuffbox
- 6 Abductor pollicis brevis muscle
- 7 Superficial head of flexor pollicis brevis muscle
- 8 Palmar digital artery of thumb
- 9 Common palmar digital arteries
- 10 Proper palmar digital arteries (median nerve)
- 11 **Ulnar nerve**
- 12 Tendon of flexor carpi ulnaris muscle
- 13 **Ulnar artery**
- 14 Superficial branch of ulnar nerve
- 15 Palmaris brevis muscle
- 16 Palmar aponeurosis



Right hand, superficial layer, dissection of vessels and nerves (palmar aspect). The palmar aponeurosis has been removed to display the superficial palmar arch.

- 17 Palmar digital nerves (ulnar nerve)
- 18 Superficial transverse metacarpal ligament
- 19 Proper palmar digital arteries
- 20 Superficial palmar branch of radial artery (contributing to the superficial palmar arch)
- 21 Flexor retinaculum
- 22 **Median nerve**
- 23 Abductor digiti minimi muscle
- 24 Flexor digiti minimi brevis muscle
- 25 Opponens digiti minimi muscle
- 26 **Superficial palmar arch**
- 27 Tendons of flexor digitorum superficialis muscle
- 28 Common palmar digital branch of ulnar nerve
- 29 Common palmar digital branch of median nerve
- 30 Fibrous sheath of flexor tendons