Intertubercular Groove Muscles

Relation to anterior brachial muscles
Relation to axilla
Muscle Topography of Shoulder and Brachium

Deltopectoral Groove
Muscle Topography of Shoulder and Brachium

Quadrangular and Triangular Spaces
Muscle Topography of Shoulder and Brachium

Brachial Cross Section Anatomy
Arterial Pathways to Shoulder and Brachium

Subclavian Artery
Arterial Pathways to Shoulder and Brachium

Branches of the Subclavian Artery

Internal thoracic artery
Arterial Pathways to Shoulder and Brachium

Branches of the Subclavian Artery

Vertebral artery
Arterial Pathways to Shoulder and Brachium

Branches of the Subclavian Artery

Thyrocerical trunk
Arterial Pathways to Shoulder and Brachium

Branches of the Subclavian Artery

Thyrocerical trunk
Suprascapular artery
Branches of the Subclavian Artery

Dorsal scapular artery
Arterial Pathways to Shoulder and Brachium

Axillary Artery
Arterial Pathways to Shoulder and Brachium

Branches of the Axillary Artery

Superior thoracic artery
Arterial Pathways to Shoulder and Brachium

Branches of the Axillary Artery

- Thoracoacromial artery
- Pectoral artery
- Acromial artery
- Clavicular artery
- Deltoid artery
Branches of the Axillary Artery

Lateral thoracic artery
Arterial Pathways to Shoulder and Brachium

Branches of the Axillary Artery

Subscapular artery
Arterial Pathways to Shoulder and Brachium

Branches of the Axillary Artery

Subscapular artery
Circumflex scapular artery
Branches of the Axillary Artery

- Subscapular artery
- Thoracodorsal artery
Branches of the Axillary Artery
Posterior circumflex humeral artery
Branches of the Axillary Artery

Anterior circumflex humeral artery
Shoulder Collateral Circuits
Dorsal scapular artery
Arterial Pathways to Shoulder and Brachium

Shoulder Collateral Circuits

Circumflex scapular artery
Arterial Pathways to Shoulder and Brachium

**Shoulder Collateral Circuits**

Suprascapular artery
Arterial Pathways to Shoulder and Brachium

Shoulder Collateral Circuits

Posterior circumflex humeral artery
Arterial Pathways to Shoulder and Brachium

Shoulder Collateral Circuits
Arterial Pathways to Shoulder and Brachium

Brachial Artery
Arterial Pathways to Shoulder and Brachium

**Brachial Artery Branches**

Profunda brachii artery
Arterial Pathways to Shoulder and Brachium

**Brachial Artery Branches**

- Profunda brachii artery
- Radial collateral artery
Arterial Pathways to Shoulder and Brachium

**Brachial Artery Branches**

- Profunda brachii artery
- Medial collateral artery
Superior Limb

Arterial Pathways to Shoulder and Brachium

Brachial Artery Branches

Superior ulnar collateral artery
Arterial Pathways to Shoulder and Brachium

**Brachial Artery Branches**

Inferior ulnar collateral artery
Arterial Pathways to Shoulder and Brachium

Brachial Artery Branches

Ulnar artery
Collaterals with Brachial Branches

Anterior ulnar recurrent artery
Arterial Pathways to Shoulder and Brachium

Collaterals with Brachial Branches

Posterior ulnar recurrent artery
Arterial Pathways to Shoulder and Brachium

**Brachial Artery Branches**

Radial artery
Arterial Pathways to Shoulder and Brachium

Collaterals with Brachial Branches

Radial recurrent artery
Deep Veins

Same as the arteries!
Superior Limb

Superficial Veins

Basilic vein
Superior Limb

Superficial Veins

Cephalic vein
Superior Limb

Superficial Veins

Median cubital vein
Anatomy

Type of joint
Articulations
Ligaments
 Movements of the Wrist Joint

Wrist flexion

Wrist extension
Movements of the Metacarpophalangeal Joints

- Digital flexion
- Digital extension
Finger Joints

Movements of the Interphalangeal Joints

Finger flexion

Finger extension
Thumb Joints

Movements of the Carpometacarpal Joints

Thumb flexion

Thumb extension
Anterior Antebrachial Muscles

Pronator teres
Anterior Antebrachial Muscles

Pronator teres

Topography
Anterior Antebrachial Muscles

**Pronator teres**

Topography
Anterior Antebrachial Muscles

Flexor carpi radialis muscle
Anterior Antebrachial Muscles

Flexor carpi radialis muscle

Topography
Anterior Antebrachial Muscles

**Flexor carpi radialis muscle**

Topography
Anterior Antebrachial Muscles

Palmaris longus muscle
Anterior Antebrachial Muscles

Palmaris longus muscle

Topography
Anterior Antebrachial Muscles

**Palmaris longus muscle**

Topography
Anterior Antebrachial Muscles

Flexor carpi ulnaris muscle
Anterior Antebrachial Muscles

Flexor carpi ulnaris muscle

Topography
Anterior Antebrachial Muscles

Flexor carpi ulnaris muscle

Topography
Anterior Antebrachial Muscles

*Flexor digitorum superficialis muscle*
Anterior Antebrachial Muscles

Flexor digitorum superficialis muscle

Topography
Anterior Antebrachial Muscles

*Flexor digitorum profundus muscle*
Anterior Antebrachial Muscles

Flexor digitorum profundus muscle

Topography
Anterior Antebrachial Muscles

Flexor pollicis longus muscle
Anterior Antebrachial Muscles

**Flexor pollicis longus muscle**

Topography
Anterior Antebrachial Muscles

**Flexor pollicis longus muscle**

Topography
Anterior Antebrachial Muscles

Pronator quadratus
Anterior Antebrachial Muscles

Pronator quadratus

Topography
Anterior Antebrachial Muscles

Pronator quadratus

Topography
Anterior Antebrachial Muscles

Summary
Anterior Antebrachial Muscles

Summary
Topography
Posterior Antebrachial Muscles

Brachioradialis muscle
Posterior Antebrachial Muscles

Brachioradialis muscle
Posterior Antebrachial Muscles

**Brachioradialis muscle**

Topography
Superior Limb

Posterior Antebrachial Muscles

**Brachioradialis muscle**

Topography
Posterior Antebrachial Muscles

Brachioradialis muscle

Topography
Posterior Antebrachial Muscles

Brachioradialis muscle

Topography
Posterior Antebrachial Muscles

Extensor carpi radialis longus muscle
Posterior Antebrachial Muscles

**Extensor carpi radialis longus muscle**

Topography
Posterior Antebrachial Muscles

**Extensor carpi radialis longus muscle**

Topography
Posterior Antebrachial Muscles

Extensor carpi radialis brevis muscle
Posterior Antebrachial Muscles

**Extensor carpi radialis brevis muscle**

Topography
Posterior Antebrachial Muscles

**Extensor carpi radialis brevis muscle**

Topography
Posterior Antebrachial Muscles

Extensor digitorum muscle
Posterior Antebrachial Muscles

**Extensor digitorum muscle**

Topography
Posterior Antebrachial Muscles

**Extensor digitorum muscle**

Topography
Posterior Antebrachial Muscles

Extensor digiti minimi muscle
Posterior Antebrachial Muscles

**Extensor digiti minimi muscle**

Topography
Posterior Antebrachial Muscles

**Extensor digiti minimi muscle**

Topography
Posterior Antebrachial Muscles

Extensor carpi ulnaris muscle
Posterior Antebrachial Muscles

Extensor carpi ulnaris muscle

Topography
Posterior Antebrachial Muscles

Extensor carpi ulnaris muscle

Topography
Posterior Antebrachial Muscles

Supinator muscle
Posterior Antebrachial Muscles

**Supinator muscle**

Topography
Posterior Antebrachial Muscles

**Supinator muscle**

Topography
Posterior Antebrachial Muscles

Anconeus muscle
Posterior Antebrachial Muscles

Anconeus muscle

Topography
Anconeus muscle

Topography
Posterior Antebrachial Muscles

Abductor pollicis longus muscle
Posterior Antebrachial Muscles

Abductor pollicis longus muscle

Topography
Abductor pollicis longus muscle

Topography
Posterior Antebrachial Muscles

Extensor pollicis longus muscle
Posterior Antebrachial Muscles

Extensor pollicis longus muscle

Topography
Posterior Antebrachial Muscles

Extensor pollicis longus muscle

Topography
Posterior Antebrachial Muscles

Extensor pollicis brevis muscle
Posterior Antebrachial Muscles

Extensor pollicis brevis muscle

Topography
Posterior Antebrachial Muscles

**Extensor pollicis brevis muscle**

Topography
Posterior Antebrachial Muscles

Extensor indicis muscle
Posterior Antebrachial Muscles

**Extensor indicis muscle**

Topography
Posterior Antebrachial Muscles

**Extensor indicis muscle**

Topography
Posterior Antebrachial Muscles

Summary
Posterior Antebrachial Muscles

Summary

Topography
Abductor digiti minimi muscle
Hypothenar Hand Muscles

Abductor digiti minimi muscle

Topography
Hypothenar Hand Muscles

Flexor digiti minimi brevis muscle
Hypotenar Hand Muscles

**Flexor digiti minimi brevis muscle**

Topography
Hypothenar Hand Muscles

Opponens digiti minimi muscle
Hypothenar Hand Muscles

**Opponens digiti minimi muscle**

Topography
Superior Limb

Hypothenar Hand Muscles

Opponens digiti minimi muscle

Topography
Hypothenar Hand Muscles

Palmaris brevis muscle
Hypothenar Hand Muscles

**Palmaris brevis muscle**

Topography
Thenar Hand Muscles

Abductor pollicis brevis muscle
Thenar Hand Muscles

Abductor pollicis brevis muscle

Topography
Thenar Hand Muscles

Flexor pollicis brevis muscle
Thenar Hand Muscles

**Flexor pollicis brevis muscle**

Topography
Opponens pollicis muscle
Thenar Hand Muscles

Opponens pollicis muscle

Topography
Thenar Hand Muscles

**Opponens pollicis muscle**

Topography
Thenar Hand Muscles

Adductor pollicis muscle
Thenar Hand Muscles

Adductor pollicis muscle

Topography
Thenar Hand Muscles

Adductor pollicis muscle

Topography
Intermetacarpal Muscles

Lumbrical muscles
Intermetacarpal Muscles

Lumbrical muscles

Topography
Lumbrical muscles
Topography
Intermetacarpal Muscles

Palmar interossei muscles
Intermetacarpal Muscles

Palmar interossei muscles

Topography
Palmar interossei muscles

Topography
Intermetacarpal Muscles

Dorsal interossei muscles
Dorsal interossei muscles

Topography
Dorsal interossei muscles
Topography
Dorsal interossei muscles

Topography
Superior Limb

Intermetacarpal Muscles

Dorsal interossei muscles
Summary of Hand Muscles
Summary of Hand Muscles
Topography of the Hand and Wrist

Carpal Tunnel

Boundaries

Structures inside versus outside
Topography of the Hand and Wrist

Anatomical Snuff Box
Topography of the Hand and Wrist

**Extensor Expansion**
Antebrachium and Hand Blood Supply

Radial Artery
Antebrachium and Hand Blood Supply

Ulnar Artery
Antebrachium and Hand Blood Supply

Superficial Palmar Arch
Antebrachium and Hand Blood Supply

Deep Palmar Arch
Antebrachium and Hand Blood Supply

Branches to Digits