

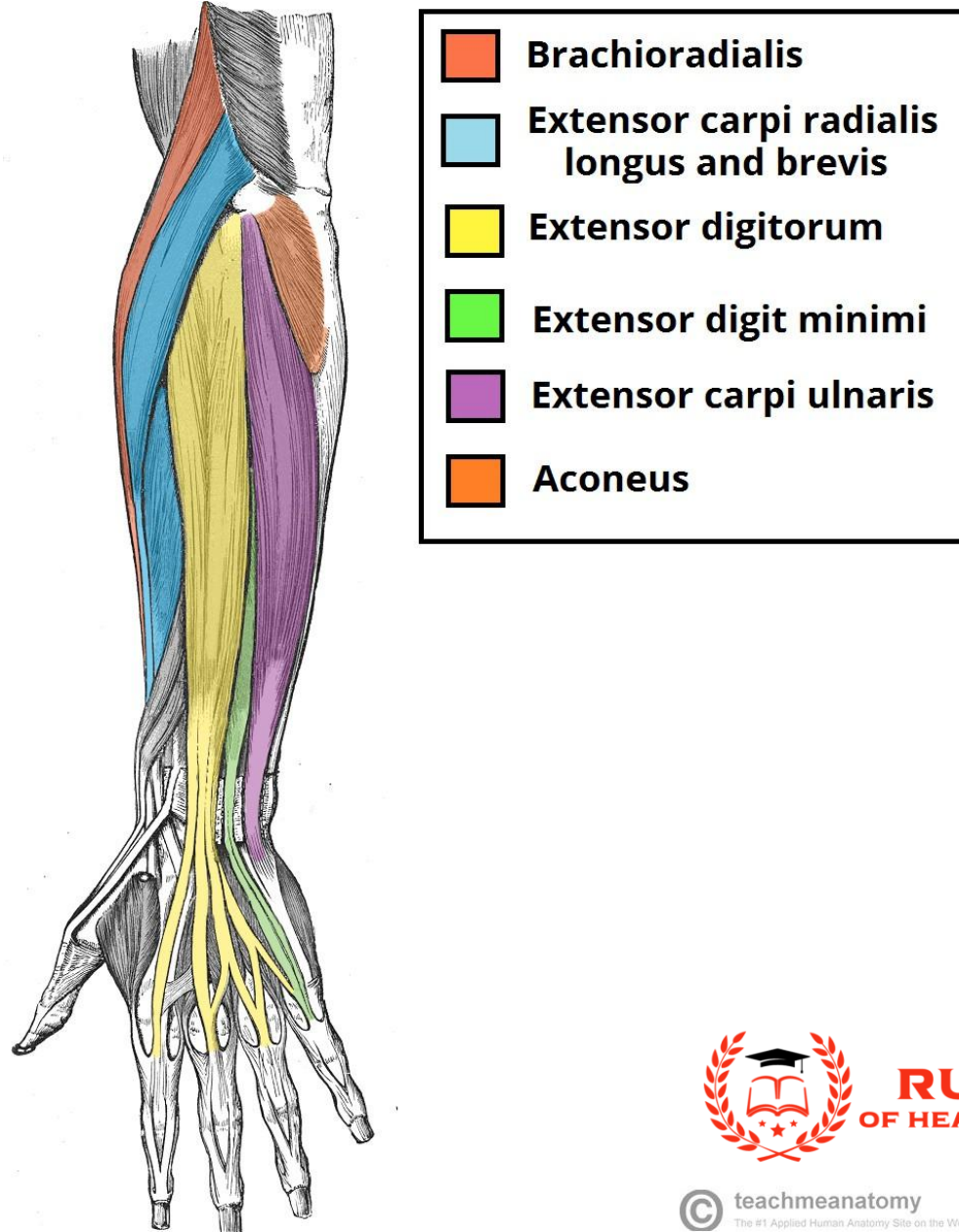
RU RMT 02
Anatomy & Physiology
Lecture 26

Muscles of the Forearm –
Extensor Compartment



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Muscles of the Posterior Forearm (Superficial)



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teachmeanatomy

The #1 Applied Human Anatomy Site on the Web

Muscles of the Forearm

Brachioradialis

O: Proximal 2/3 of supracondylar ridge of humerus

F.D:

I: Lateral surface of distal end of radius **A:** Weak flexion of the elbow, maximal in mid-pronation



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Muscles of the Posterior Forearm

Extensor Carpi Radialis Longus (ECRL)

O: Lateral supracondylar ridge of humerus

FD:

I: Dorsal aspect of base of 2nd metacarpal **A:** Extend and abduct hand at wrist joint; ECRL active during fist clenching



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Muscles of the Posterior Forearm

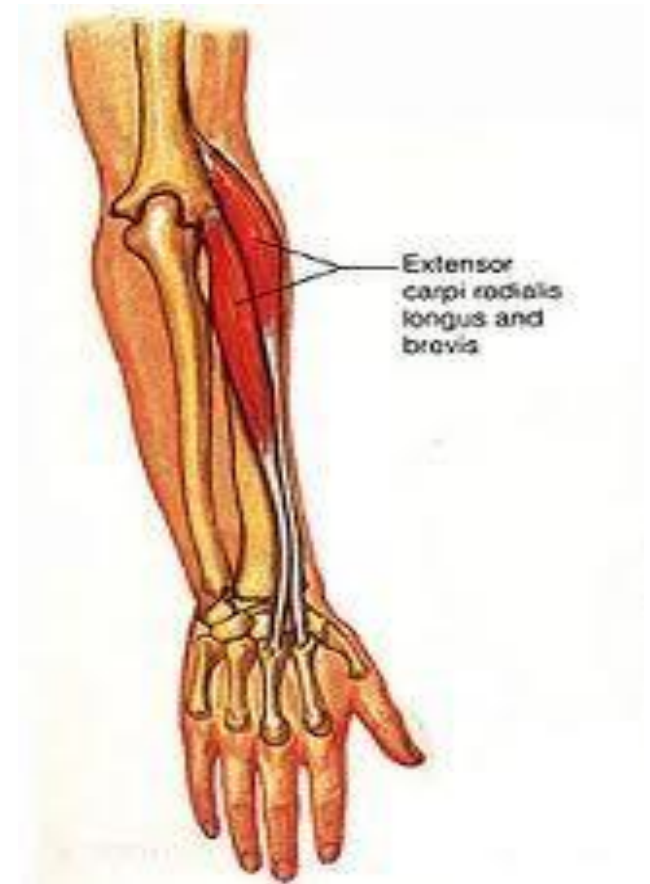
Extensor Carpi Radialis Brevis (ECRB)

O: Lateral epicondyle of humerus
(common extensor origin)

F.D:

I: Dorsal aspect of base of 3rd
metacarpal

A: Extend and abduct hand at wrist joint;
ECRB active during fist clenching



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Muscles of the Posterior Forearm

Extensor Digitorum

O: Lateral epicondyle of humerus
(common extensor origin)

F.D:

I: Extensor expansions of medial four digits

A: Extend medial 4 digits primarily at MCP joints; secondarily at IP joints



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Muscles of the Posterior Forearm

Extensor Digiti Minimi

O: Lateral epicondyle of humerus (common extensor origin)

F.D:

I: Extensor expansion of 5th digit

A: Extends 5th digit at MCP joint; secondarily at IP joints



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Muscles of the Posterior Forearm

Extensor Carpi Ulnaris (ECU)

O: Lateral epicondyle of humerus;
posterior border of ulna via a
shared aponeurosis

F.D:

I: Dorsal aspect of base of 5th
metacarpal

A: Extends and adducts hand at wrist
(active during fist clenching)



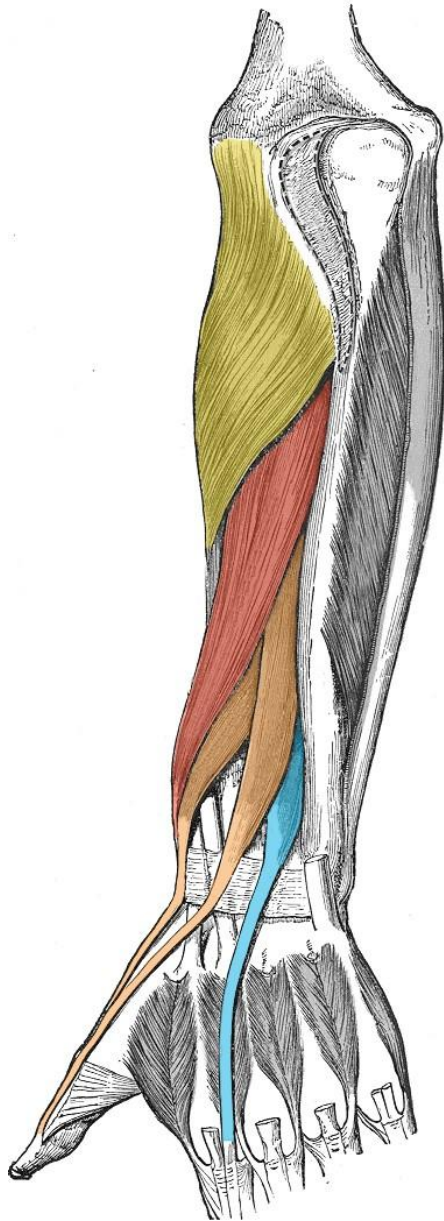
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Muscles of the Posterior Forearm (Deep)



Supinator



Abductor pollicis longus



**Extensor pollicis longus
and brevis**



Extensor indicis



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Muscles of the Posterior Forearm (Deep)

Supinator

O: Lateral epicondyle of humerus; radial collateral and annular ligament, supinator fossa on the ulna and crest of ulna

F.D: Inferior-medial

I: Lateral, posterior and anterior surfaces of proximal 1/3 of radius

A: Supinates forearm; rotates radius to turn palm anterior or superior (if elbow flexed)



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Muscles of the Posterior Forearm (Deep)

Abductor Pollicis Longus (APL)

O: Posterior surface of proximal ½ of ulna, radius and inter-osseous membrane

I: Base of 1st metacarpal

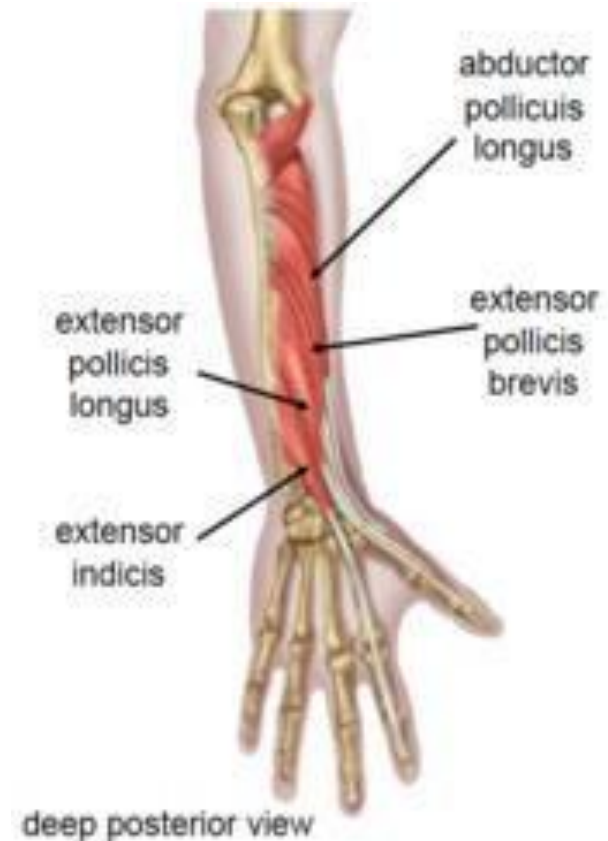
A: Abducts thumb and extends it at CMC joint

Extensor Pollicis Longus (EPL)

O: Posterior surface of middle 1/3 of ulna and interosseous membrane

I: Dorsal aspect of base of distal phalanx of thumb

A: Extends distal phalanx of thumb at MCP joint; extends MCP and CMC joints



Muscles of the Posterior Forearm (Deep)

Extensor Pollicis Brevis (EPB)

O: Posterior surface of distal 1/3 of radius and interosseous membrane

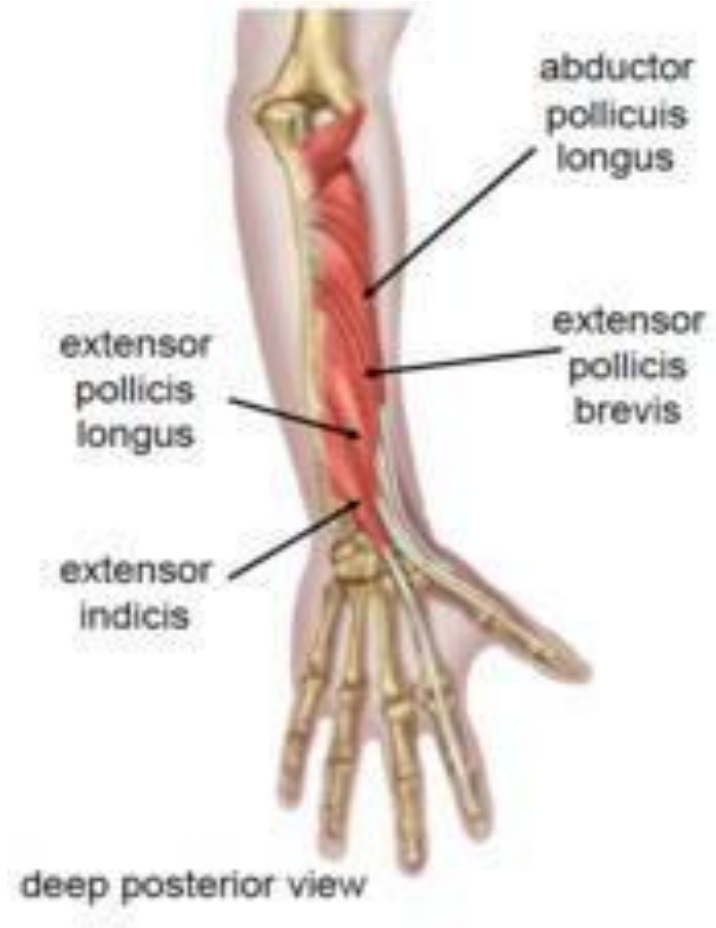
I: Dorsal aspect of base of proximal phalanx of thumb
A: Extends proximal phalanx of thumb at MCP joint; extends CMC joints

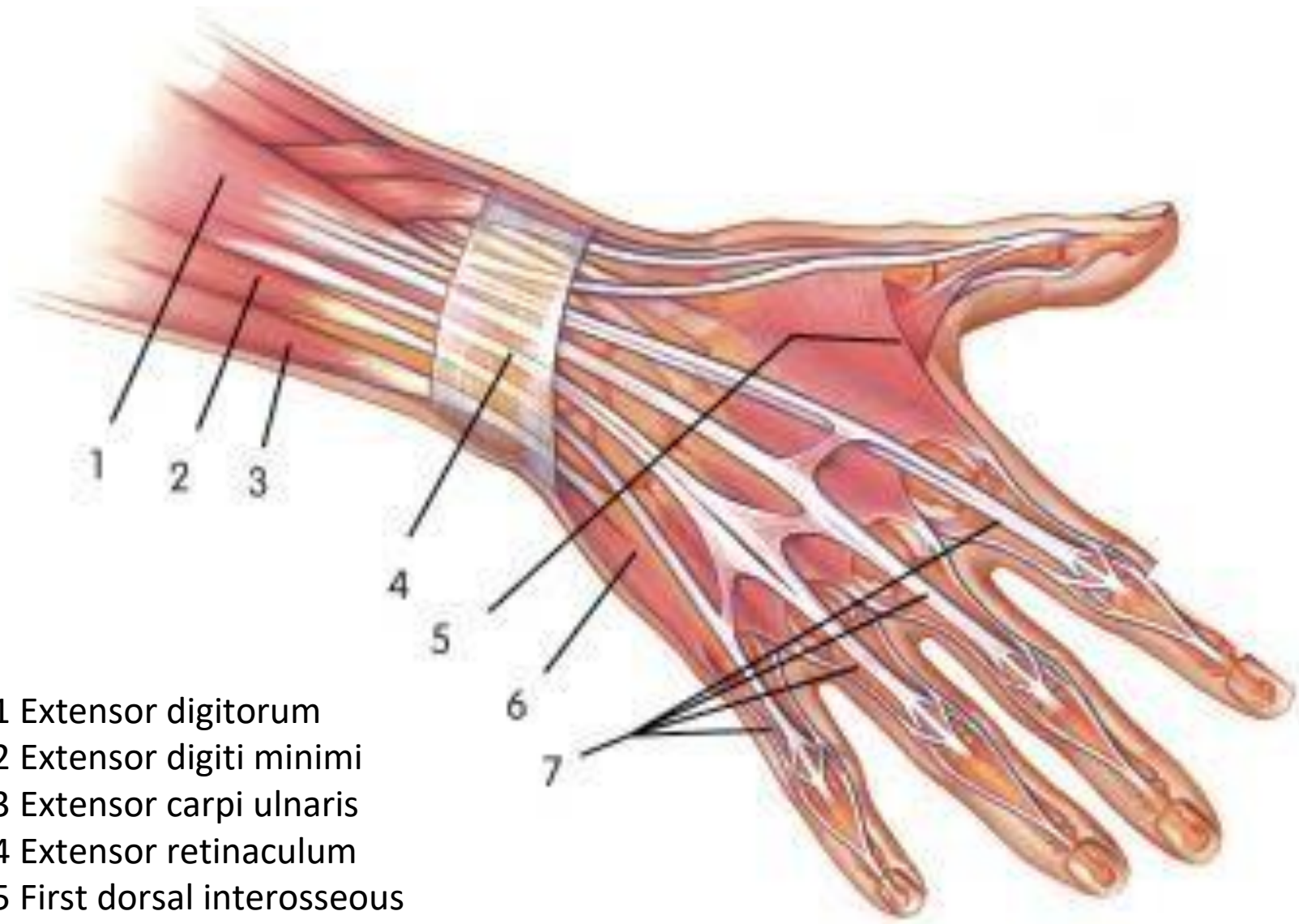
Extensor Indicis

O: Posterior surface of distal 1/3 of ulna and interosseous membrane

I: Extensor expansion of 2nd digit

A: Extends 2nd digit, helps extend hand at wrist





- 1 Extensor digitorum
- 2 Extensor digiti minimi
- 3 Extensor carpi ulnaris
- 4 Extensor retinaculum
- 5 First dorsal interosseous muscle
- 6 Abductor digiti minimi
- 7 Extensor digitorum tendons



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