

Anatomy & Physiology: Muscles—Extensor Pollicis Brevis.

STRUCTURE.

- Origin: posterior surface of middle of ulna and interosseous membrane.
- Insertion: base of proximal phalanx of thumb.

FUNCTION.

- One of the deep distal four group.
- Concentric action: extends proximal phalanx of thumb at metacarpophalangeal joint, first metacarpal of thumb at carpometacarpal joint, and abducts hand at wrist joint. Lesser: lateral rotation of thumb at CMC; radial deviation.
- Reverse mover action: extension of carpal bone trapezium at CMC, extension first metacarpal at MCP; abduction of trapezium at CMC; medial rotation of trapezium at CMC; radial deviation.
- Eccentric action: controls/restrains/slows flexion at CMC and MCP of thumb; adduction at CMC of thumb; medial rotation of metacarpal and lateral rotation of carpal trapezium at CMC of thumb; wrist ulnar deviation.
- Isometric action: stabilize CMC and MCP of thumb, wrist joint.
- Innervation: deep radial nerve.
- Arterial supply: posterior interosseus artery; perforating branches of anterior interosseus artery.

CLINICAL SIGNIFICANCE.

References

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