Anatomy & Physiology: Muscles—Flexor Digitorum Brevis.

## STRUCTURE.

- Origin: calcaneus, plantar aponeurosis.
- Insertion: sides of middle phalanx of toes II-IV.

## FUNCTION.

- Concentric action: flexes toes II-IV at proximal interphalangeal and metatarsophalangeal joints.
- Reverse mover action: flex metatarsals at MTP, flex prosimal phalanges at PIP.
- Eccentric action: controls/restrains/decelerates extension of toes 2-5 at MTP and PIP, and extension of metatarsals 2-5 at MTP.
- Isometric action: stabilize MTP and PIP.
- Innervation: medial plantar nerve.
- Arterial supply: medial and lateral plantar arteries.

## CLINICAL SIGNIFICANCE.

## References

Biel, A. (2015). Trail guide to the body: A hands-on guide to locating muscles, bones and more.

Clark, M., Lucett, S., Sutton, B. G., & National Academy of Sports Medicine. (2014). *NASM essentials of corrective exercise training*. Burlington, MA: Jones & Bartlett Learning.

Jenkins, G., & Tortora, G. J. (2012). *Anatomy and Physiology: From Science to Life, 3rd Edition International Stu.* John Wiley & Sons.

Muscolino, J. E. (2017). The muscular system manual: The skeletal muscles of the human body.