Anatomy & Physiology: Muscles—Extensor Hallucis Longus (toes).

STRUCTURE.

- Origin: anterior surface of fibula; interosseous membrane.
- Insertion: distal phalanx of great toe.

FUNCTION.

- Concentric action: ankle dorsiflexion; extension of proximal phalanx of great toe at metatarsophalangeal joint.
- Reverse mover action: dorsiflexion and inversion/supination of talus at subtalar joint; extension of metatarsal at MTP and extension of proximal phalanx.
- Eccentric action: controls/restrains/decelerates flexion of big toe at MTP and IP, and metatarsal at MTP; plantarflexion and eversion at subtalar joint.
- Isometric action: stabilizes ankle and subtalar joints.
- Innervation: deep fibular (peroneal) nerve.
- Arterial supply: anterior tibial artery.

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.