

Conference Abstract

DAY 2 16 th September 2023 (Saturday)	POSTER	11.00 am-12.00 pm	Scientific Session 3
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Bilateral presence of an Unidentified Muscle in the Anterior Compartment of the lower limb: A case report**Khushi Shah, Krish Bhambhani, Sheetal Pattanshetti, Shilpa M Bhimali**

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Introduction: The Extensor Hallucis Brevis, one of the four muscles in the anterior compartment of the leg. Originates from the calcaneus, the EHB shares its origin with the Extensor Digitorum Brevis; it inserts on the proximal phalanx of the hallux.

Aim: To identify the found variation of the EHB by deducing its attachments and possible function.

Materials and method: Careful dissection was carried out to find out that the unidentified muscle took origin inferior to the origin of EHL. Muscle variation of both the legs possessed three distinct bellies, the variation on the left gave two tendons while the right leg possessed only one tendon. EHB and the unidentified muscle were measured by vernier caliper with the accuracy of 0.1 mm whereas the length of tendons were measured by thread and scale method.

Result: Length at origin of the both the unidentified muscles: Right = 45.5 mm and left = 48.5 mm Length of the tendon from the muscle belly till its insertion at the base of the first proximal phalanx Right = 105.6 mm and Left = 109.3 mm Length of the tendon of the EHB from origin to its insertion on the tendon of unidentified muscle Right = 34.6 mm and Left = 28.3mm

Conclusion: Based on hours of research this muscle variation seems to be unique based on its origins and insertions and seems to be an extensor hallucis brevis accessorius muscle.

Keywords: Extensor Hallucis Longus (EHL), Morphological Variations, Extensor Hallucis Brevis (EHB), Hallux, Unidentified Muscle.