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Gait disorders

- If posterior muscle contract before full stance phase, foot will lock

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Gait disorders (cont)

- Prevents MTP joint dorsiflexion - causes abduction and eversion of the foot to accommodate

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Gait disorders (cont)

- Kinetic chain dysfunction as 1st MTP weigh bears on its medial surface instead of plantar

Subtalar and midtarsal joints collapse - flat feet

Tib post becomes tethered around tibial malleolus - causes pos tib tendosynovitis and possible rupture



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Gait disorders (cont)

- Shift from pronation to supination fails to occur at toe off leading to
- stresses of medial column of the foot and medial aspect of heel (entire limb has to be abducted)
- Weakening of talonavicular and subtalar joints
- Shearing forces occur on medial tubercle of the calcaneus

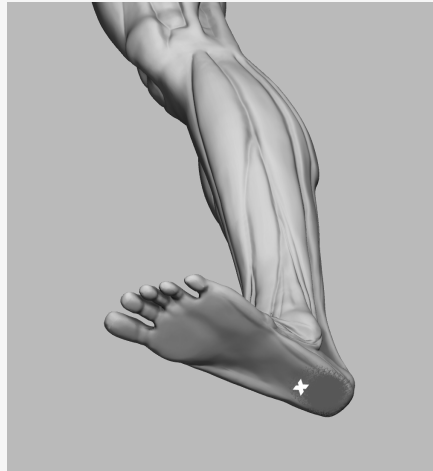


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Quadratus Plantae - TrPs



- Can mimic heel spurs and plantar fasciitis

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Quadratus Plantae



Origin: Calcaneus, Long plantar ligament

Insertion: Tendons of FDL

NS: Lateral plantar nerve (S1,S2)

Action: Assists FDL in flexion of DIP joints

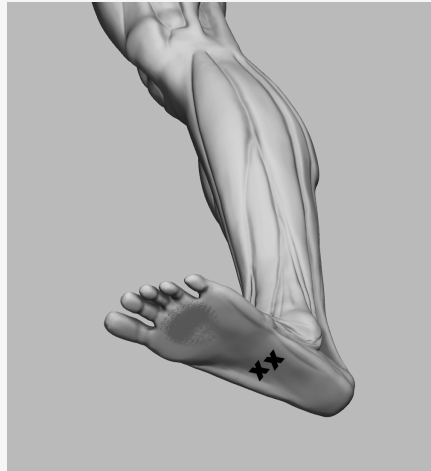
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Flexor Digitorum Brevis - TrPs



- Rolling iced rolling pin/water bottle/golf ball good for releasing TrPs

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Flexor Digitorum Brevis - Palpation



- Locate Plantar surface of the heel and 2-5th toes
- Palpate along arch of foot, flex and relax toes

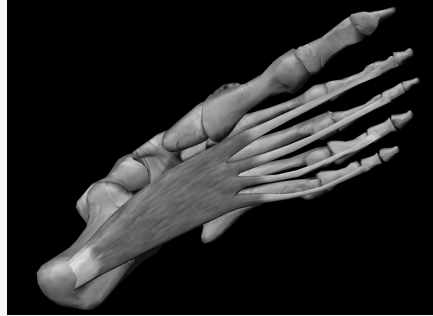
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Flexor Digitorum Brevis



Origin: Calcaneus

Insertion: Middle Phalanges of toe 2-5

NS: Medial plantar nerve S1-S2

Action: Flexion of the lateral four digits

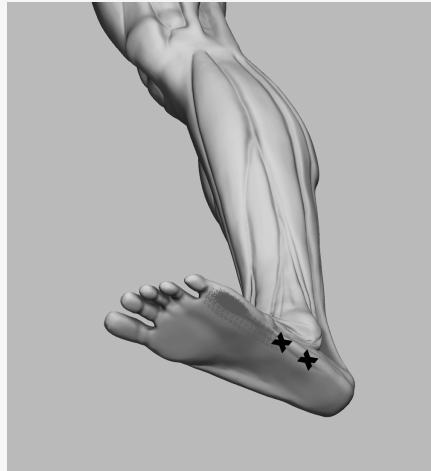
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Abductor Digiti Minimi (Foot) - TrPs



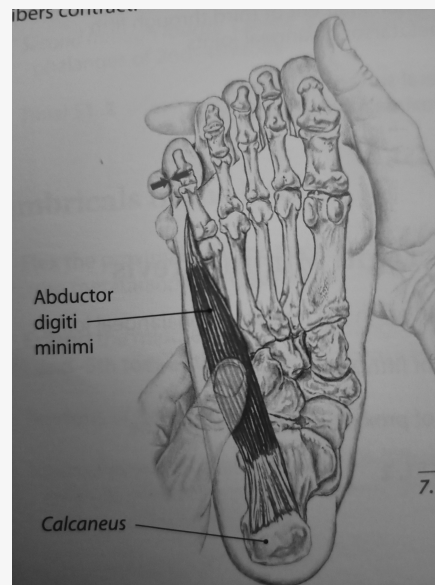
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Abductor Digiti Minimi (Foot) - Palpation



- Locate plantar surface of the heel and lateral surface of 5th toe
- Palpate between those points
- Ask pt to abduct/flex 5th toe

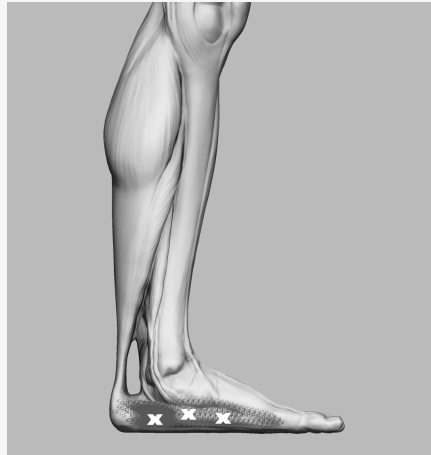


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Abductor Hallucis - TrP



- Can entrap posterior tibial nerve / two branches of the lateral and medial plantar nerves against the medial tarsal bones

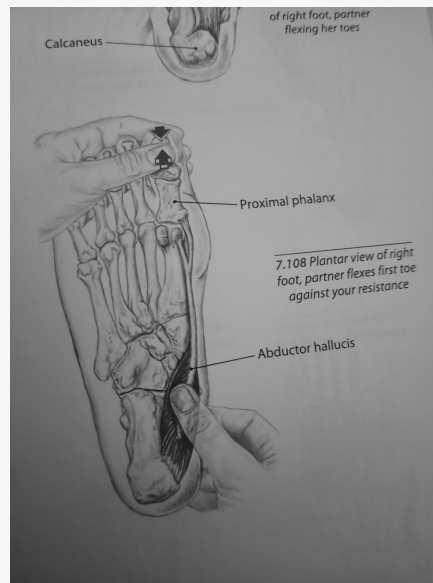
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Abductor Hallucis - Palpation



- Locate medial surface of the heel and medial side of first toe
- Palpation between those points
- Get pt to flex first toe against resistance

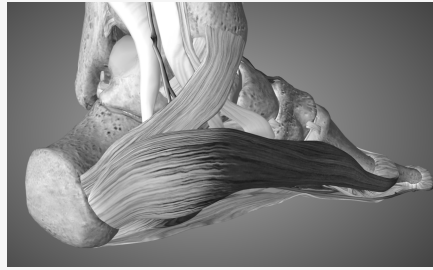
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Abductor Hallucis



Origin: Medial process of calcaneal tuberosity , plantar aponeurosis, flexor retinaculum

Insertion: Medial aspect of base of 1st phalanx of hallux

NS: Medial Plantar nerve S1, S2

Action: Abducts hallux

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EDB - TrPs



- Pain usually does not occur above ankle

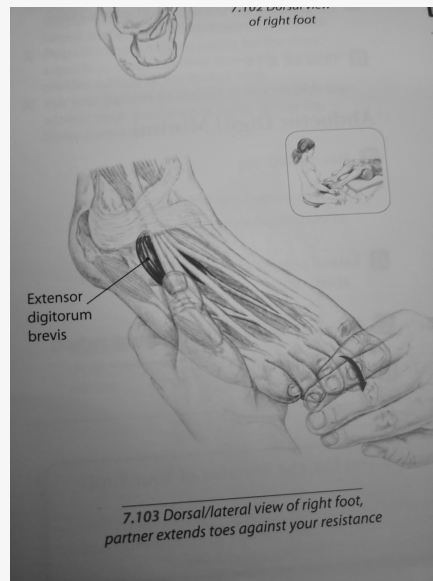
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EDB - Palpation



- Slide two inches off the lateral malleolus
- Lateral to EDL tendons
- Get patient to extend toes against resistance

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Extensor Digitorum Brevis and EHB



EDB

Origin: Dorsal surface of calcaneus

Insertion: Proximal dorsal region of middle phalanges 2,3,4

NS: Deep fibular Nerve L5-S1

Action: Extends digits 2-4

Can have a slip attaching onto the base of proximal phalanx of the hallux (EHB)

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Foot mechanics during Gait

- Heel strike - Supinated position, body moves forward, weight travels through lateral heel and 5th metatarsal base, foot then pronates

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Foot mechanics during Gait (cont)

- Stance phase - weight transfers to medial side through midtarsal bones

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Foot mechanics during Gait (cont)

- Toe off - Shift from pronation to supination when propulsion happens, achilles activate, forces transferred through plantar fascia to 1st MT joint

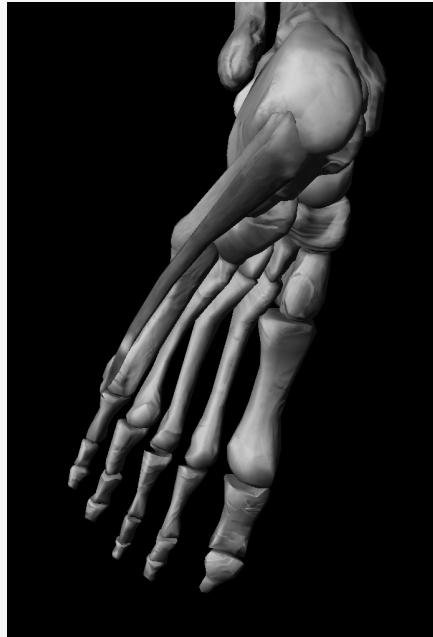
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Abductor Digiti Minimi (Foot)



Origin: Plantar Aponeurosis

Insertion: 5th toe/phalanges

NS: Lateral plantar nerve S1-S3

Action: Flexion and abduction of the 5th toe

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Plantar Interossei (foot) - TrPs

- Runs along body of the muscle

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Plantar Interossei (foot)



Origin: Metatarsals, long plantar ligament

Insertion: Medial side of proximal phalanges of 3rd to 5th toe

NS: Lateral plantar nerve S2-S3

Action: Adduct toes

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Dorsal Interossei (foot) - TrPs

- TrPs run along line of muscle

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Dorsal Interossei (foot) - TrPs

- TrPs run along line of muscle

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Dorsal Interossei (foot)



Origin: Metatarsals

Insertion: Proximal phalanges

NS: Lateral plantar nerve S2-S3

Action: Abducts toes

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Adductor Hallucis - TrPs



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Adductor Hallucis



Origin: Oblique head: Proximal ends of middle 3 metatarsal bones Transverse head: MTP, ligaments of lateral 3 toes

Insertion: Lateral side of base of 1st phalanx of the 1st toe, sesamoid apparatus

NS: Lateral Plantar Nerve S2 and S3

Action: Adducts Hallux

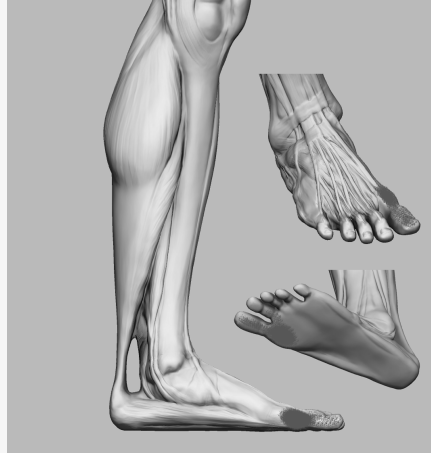
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Flexor Hallucis Brevis - TrPs



- Help prevents clawing of great toe

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Flexor Hallucis Brevis



Origin: Plantar aspect of cuneiforms, plantar calcaneocuboid ligament, long plantar ligament

Insertion: Medial head: Medial sesamoid bone of the MTP joint, proximal phalanx of great toe

Lateral Head: Lateral sesamoid bone of the MTP joint, proximal phalanx of great toe

NS: Medial plantar nerve S1-S2

Action: Flex Hallux

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Flexor Digiti Minimi Brevis



Origin: 5th Metatarsal bone

Insertion: 1st Phalanx of the fifth toe

NS: Superficial branch of lateral plantar nerve S2-S3

Action: Flexion and adduction of the 5th toe

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Lumbricals TrPs

- Runs along body of the muscle

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Lumbricals TrPs (cont)

- Add leverage to the toes to dig in more effectively when walking on soft sand

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Lumbricals



Origin: Medial borders of long flexor tendons

Insertion: Proximal phalanges and extensor tendons of the 4 lateral toes

NS: Medial and lateral plantar nerves S3

Action: Flexes MTP joints, extends interphalangeal joints

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