

**Tasks for students of International faculty,  
specialty of “Dentistry”  
“The locomotor system”**

Topic. Muscles of pelvic girdle and thigh. Topography, femoral canal.  
Muscles of the leg (shin) and foot. The fasciae and topography of the  
lower limb.

1. During physical training a pupil felt pain in the hip joint after the  
lower extremity internal rotation. Traumatologist detected an injury of a  
muscle tendon. What muscle is it?

A. M. piriformis

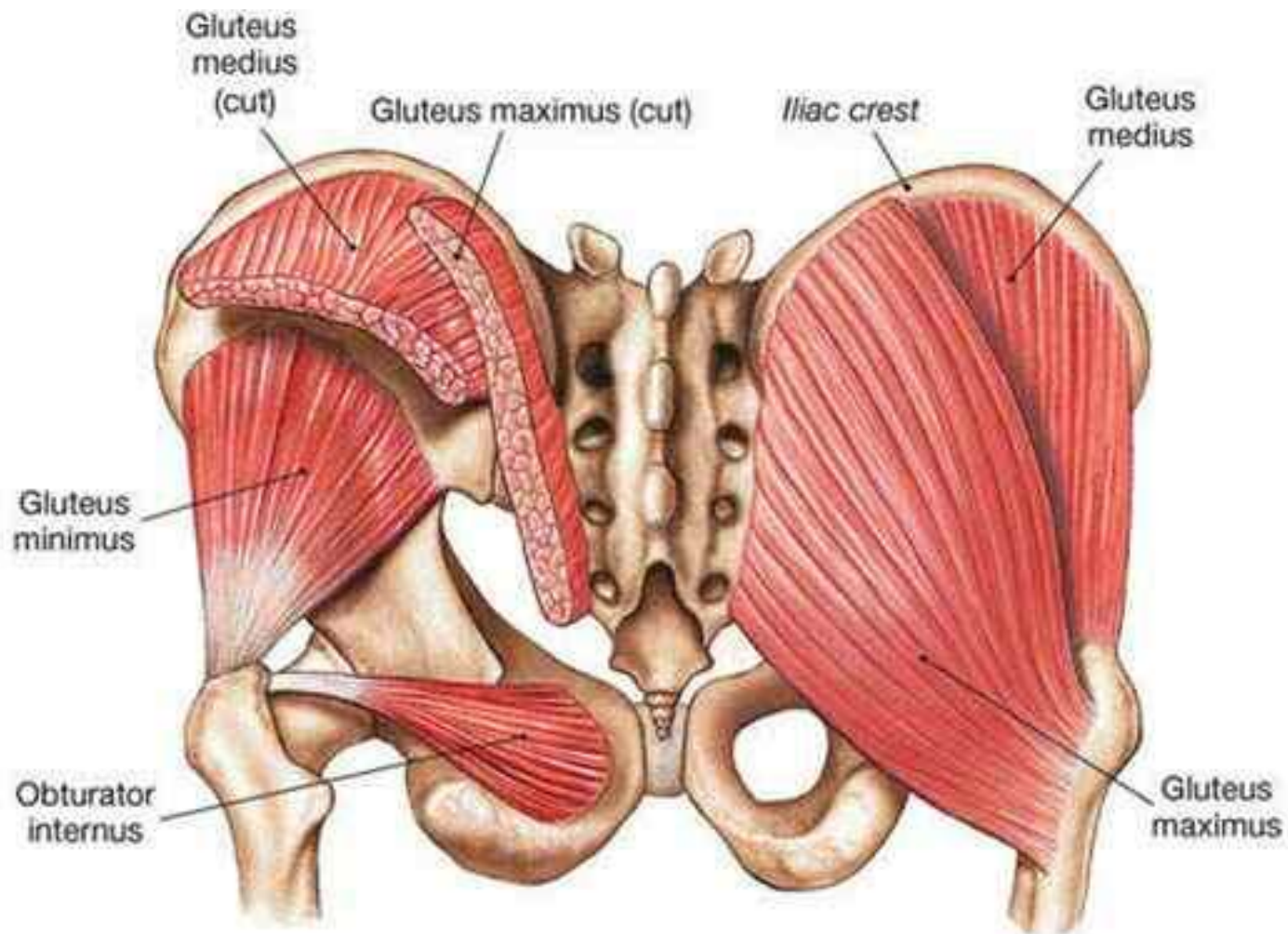
B. M. obturatorius internus

C. M. obturatorius externus

D. M. gluteus medius

E. M. quadratus femoris

## D. M. gluteus medius



Gluteal and lateral rotators, posterior view

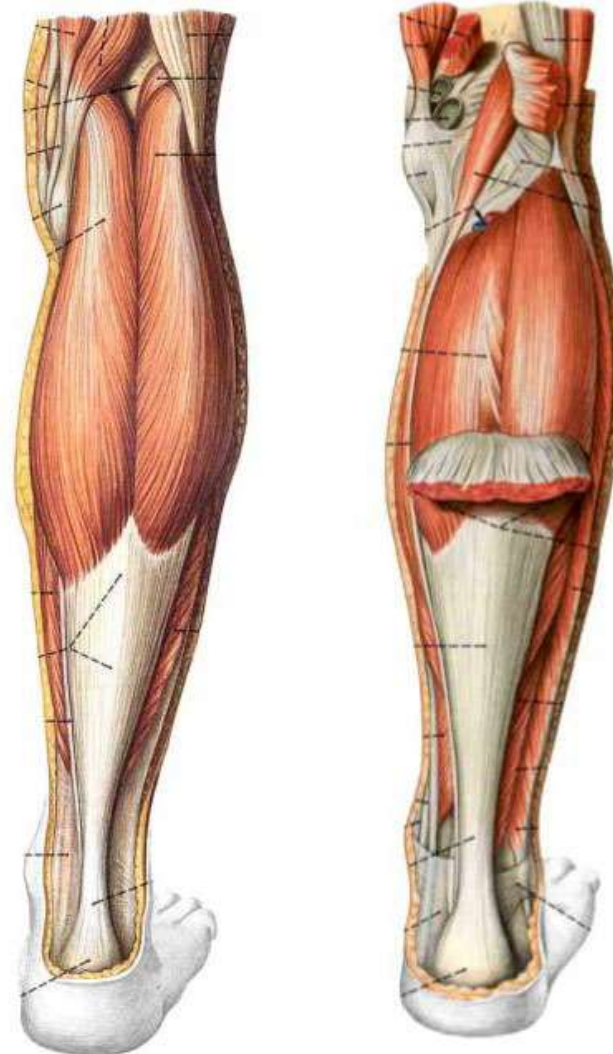
2. During a game a basketball-player injured his right leg in consequence of which he couldn't bend the right foot. A doctor detected that tendons were injured. The tendon of what muscle was injured?

- A. Triceps surae
- B. Extensor hallucis longus
- C. Tibialis anterior
- D. Biceps femoris
- E. Sartorius

## A. Triceps surae

### Triceps surae

- Origin:
  - Gastrocnemius: medial and lateral condyles of femur
  - Soleus: soleal line of tibia and upper third of fibula
- Insertion: calcaneum via tendo calcaneus
- Action: flexes knee joint and plantarflexes foot at ankle joint; steadies leg on foot during standing
- Nerve supply: tibial n.

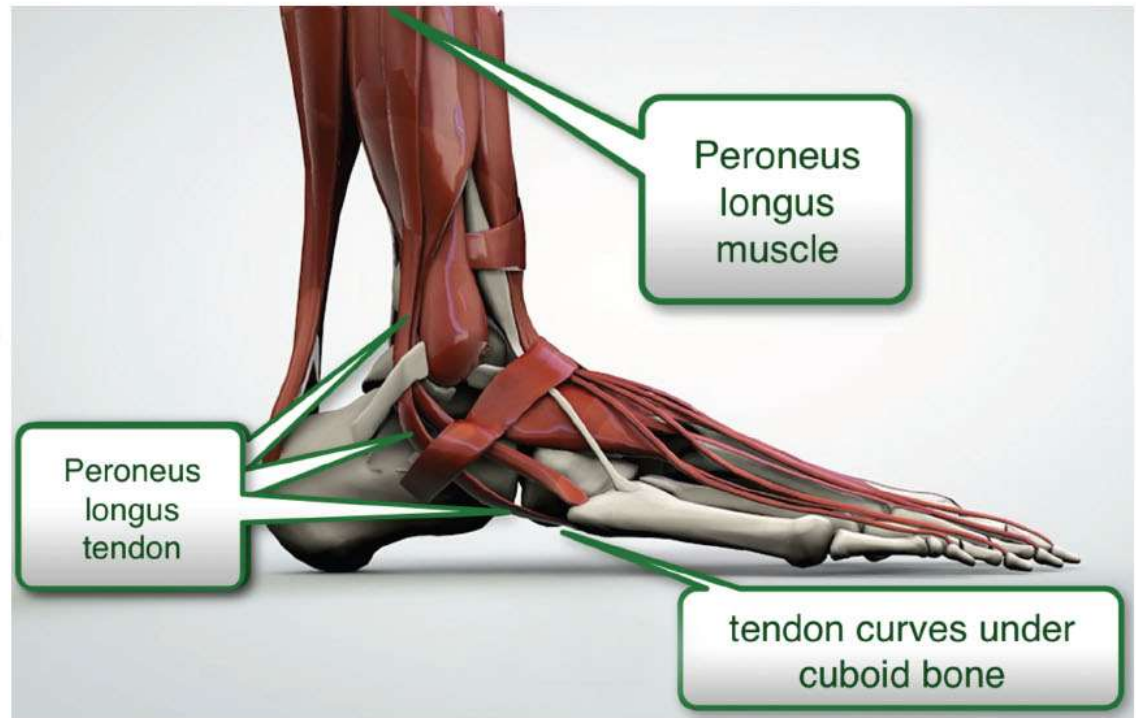
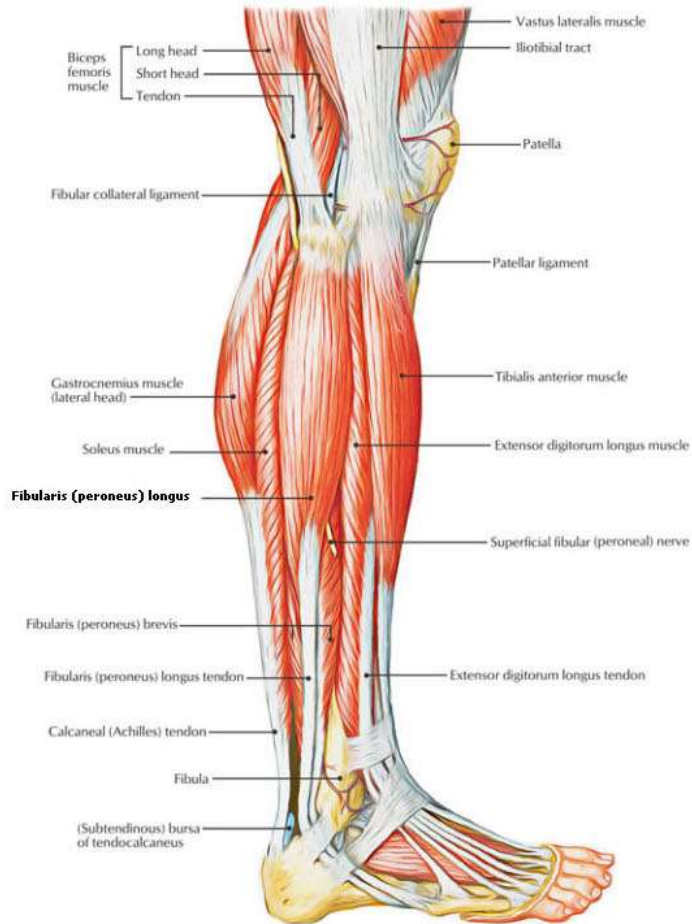


3. A man, 30 years old, appealed to a traumatologist with an incised wound of the left foot plantar region. The injured had problems with lifting the lateral border of the foot. What muscle function was affected?

- A. Triceps surae
- B. Tibialis anterior
- C. Flexor hallucis longus
- D. Peroneus longus
- E. Soleus



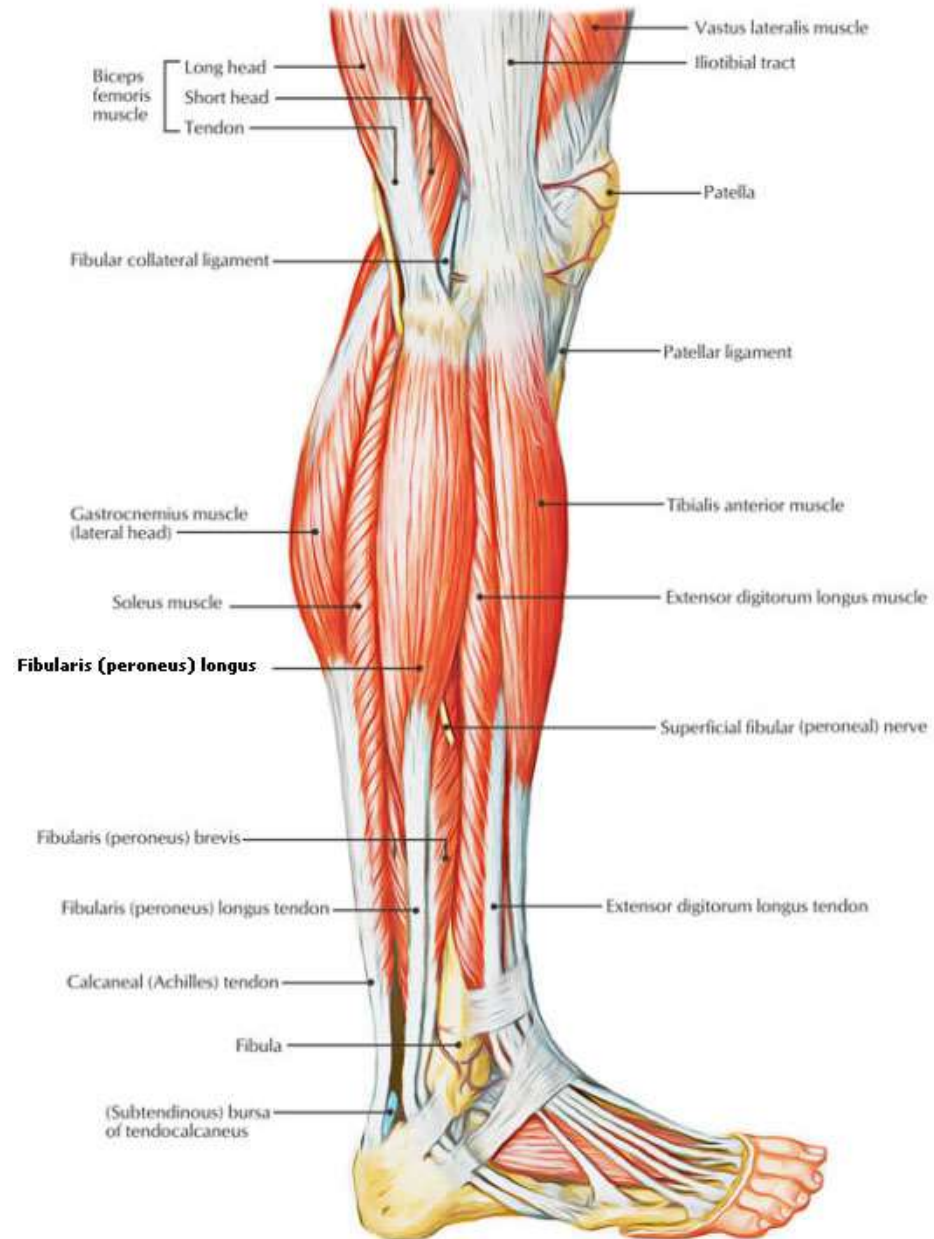
## D. Peroneus longus



4. A child, 8 years old, was admitted to a clinic with an incised wound of the right leg sole. Debridement has shown a deep wound with tendon tear in the plantar region near the lateral border of the foot. Lifting of the lateral border of the foot is limited. The function of what muscle has been affected?

- A. M. tibialis anterior
- B. M. peroneus longus
- C. M. extensor digitorum longus
- D. M. quadriceps femoris
- E. M. triceps surae

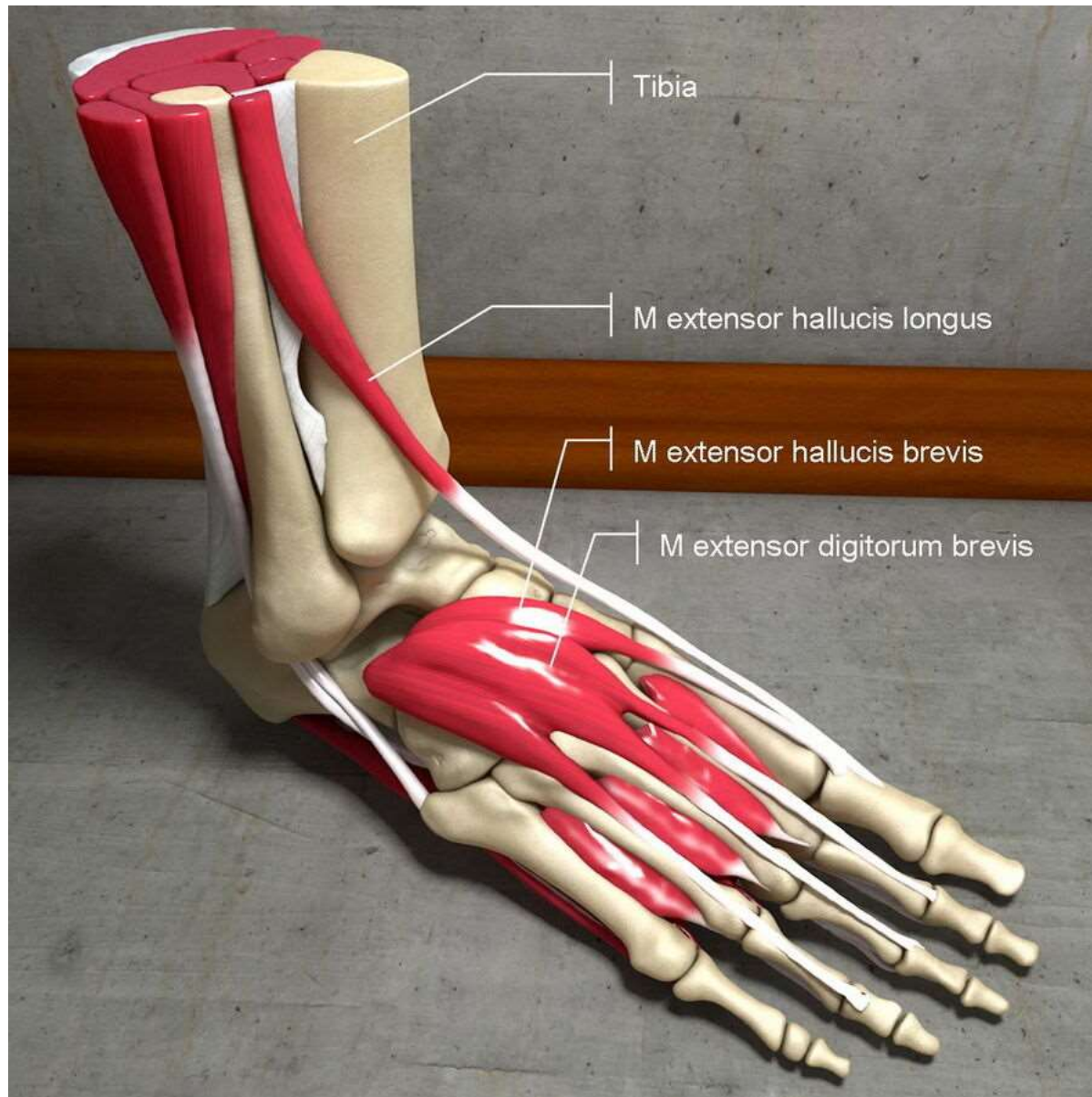
## B. M. peroneus longus



5. As a result of tibia fracture the anterior muscle of leg was injured. The function of what muscle is affected?

- A. Extensor hallucis longus
- B. Flexor digitorum longus
- C. Peroneus longus
- D. Soleus
- E. Extensor digitorum brevis

## A. Extensor hallucis longus

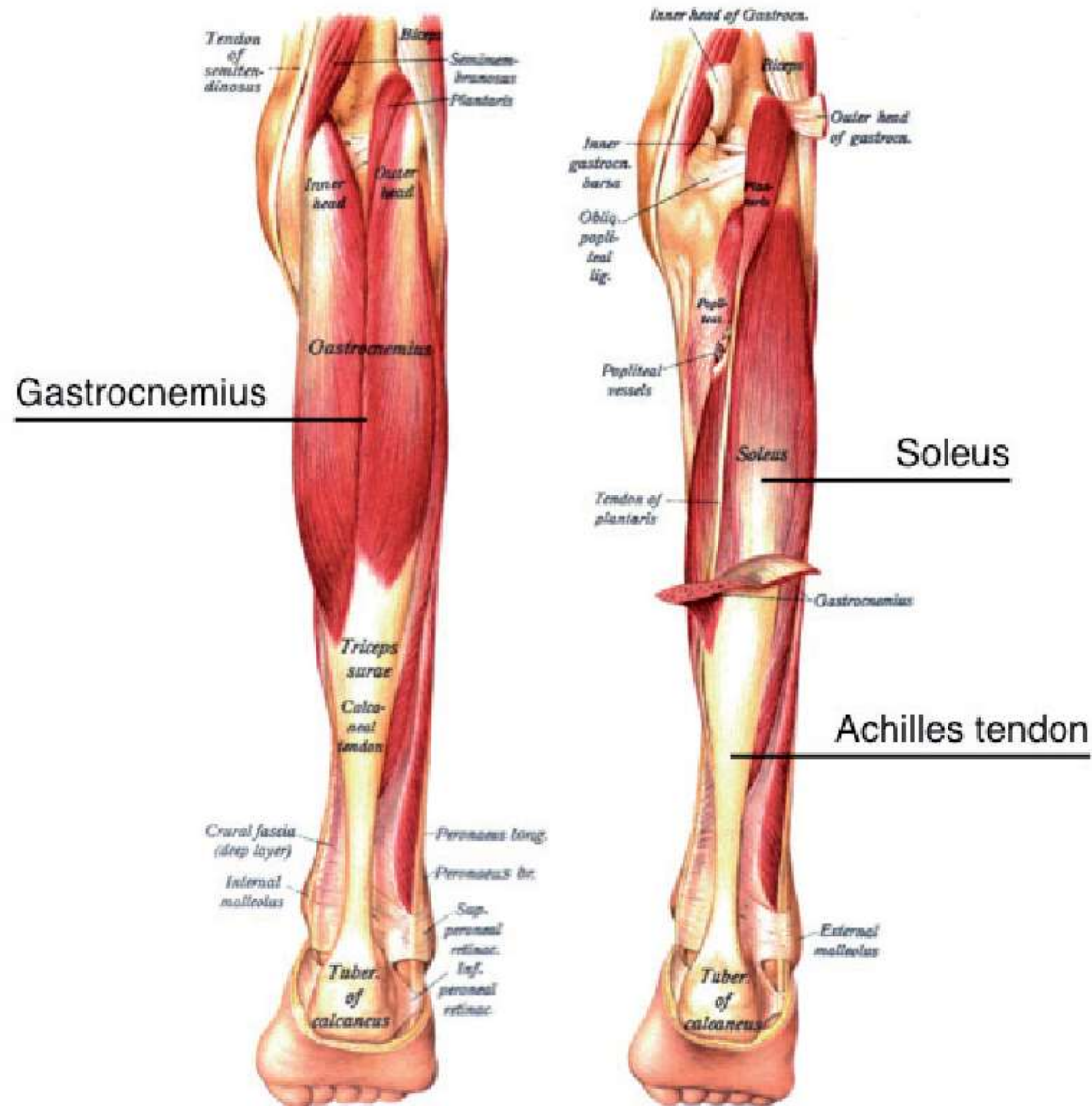


6. A basketball-player complains of pain in the calcaneal region, which intensifies while walking. What muscle tendon is injured?



- A. Long peroneal muscle
- B. Posterior tibial muscle
- C. Long flexor muscle of toes
- D. Triceps muscle of calf (triceps surae muscle)
- E. Short peroneal muscle

## D. Triceps muscle of calf (triceps surae muscle)



7. After an accident a patient has severe painful I nness and anterior leg surface edema, dorsal flexion of the foot is difficult. Which muscle functions are damaged?

- A. Long peroneal muscle
- B. Long flexor muscle of toes
- C. Long flexor muscle of great toe
- D. Tibialis anterior
- E. Short peroneal muscle

## D. Tibialis anterior

