

Lower Leg Muscles Quiz Answer Key PDF

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Which artery supplies blood to the posterior compartment of the lower leg?

- A. Anterior tibialis artery
- B. Posterior tibialis artery ✓
- C. Fibular artery
- D. Popliteal artery

Which muscle is NOT part of the lateral compartment of the lower leg?

- A. Fibularis Longus
- B. Fibularis Brevis
- C. Tibialis Anterior ✓
- D. Fibularis Tertius

Which muscle is primarily responsible for dorsiflexions of the foot?

- A. Gastrocnemius
- B. Tibialis Anterior ✓
- C. Soleus
- D. Fibularis Longus

Describe the functional differences between the anterior and posterior compartments of the lower leg.

- A. Anterior compartment dorsiflexes, posterior plantarflexes ✓
- B. Anterior compartment plantarflexes, posterior dorsiflexes
- C. Both compartments plantarflex
- D. Both compartments dorsiflex

Which conditions can result from overuse or injury to the lower leg muscles? (Select all that apply)



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A. Compartment syndrome ✓		
B. Achilles tendinitis ✓		
C. Carpal tunnel syndrome		
D. Shin splints ✓		
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Describe the role of the fibularis longus muscle in foot movement.

- A. Eversion and arch stabilization ✓
- B. Dorsiflexions
- C. Plantarflexions
- D. Toe flexions

Which of the following muscles are innervated by the tibialis nerve? (Select all that apply)

- A. Soleus ✓
- B. Fibularis Brevis
- C. Gastrocnemius ✓
- D. Tibialis Anterior

Which muscles contribute to the flexions of the toes? (Select all that apply)

- A. Flexor Digitorum Longus ✓
- B. Extensor Hallux Longus
- C. Flexor Hallux Longus ✓
- D. Tibialis Posterior

Discuss how the tibialis anterior muscle contributes to balance and movement.

- A. Assists in dorsiflexions ✓
- B. Aids in plantarflexions
- C. Stabilizes the knee
- D. Flexes the toes

Which condition is commonly associated with overuse of the tibialis anterior muscle?

- A. Achilles tendinitis
- B. Plantar fasciitis



C.	Shin	splints	✓
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D. Compartment syndrome

Which muscles are located in the anterior compartment of the lower leg? (Select all that apply)

- A. Extensor Digitorum Longus ✓
- B. Fibularis Longus
- C. Tibialis Anterior ✓
- D. Flexor Hallux Longus

What are the potential consequences of an injury to the Achilles tendon?

- A. Pain and swelling ✓
- B. Increased flexibility
- C. Improved balance
- D. Enhanced strength

Which of the following muscles are part of the posterior compartment of the lower leg? (Select all that apply)

- A. Gastrocnemius ✓
- B. Tibialis Anterior
- C. Soleus ✓
- D. Fibularis Brevis

Explain the symptoms and potential causes of compartment syndrome in the lower leg.

- A. Severe pain and swelling ✓
- B. Numbness and tingling ✓
- C. Muscle atrophy
- D. Joint dislocation

Which muscle assists in knee flexions?

- A. Soleus
- B. Plantaris
- C. Gastrocnemius ✓



D. Tibialis Posterior

Identify the muscles involved in dorsiflexions and explain their importance in walking.

- A. Tibialis anterior ✓
- B. Soleus
- C. Gastrocnemius
- D. Flexor Hallux Longus

Explain how the posterior tibialis artery supports the function of the lower leg muscles.

- A. Supplies blood to the anterior compartment
- B. Supplies blood to the posterior compartment ✓
- C. Supplies blood to the lateral compartment
- D. Supplies blood to the foot

Which muscles are responsible for plantarflexions of the foot? (Select all that apply)

- A. Tibialis Anterior
- B. Soleus ✓
- C. Gastrocnemius ✓
- D. Extensor Digitorum Longus

Which nerve innervates the anterior compartment of the lower leg?

- A. Tibia nerve
- B. Superficially fibular nerve
- C. Deep fibular nerve ✓
- D. Sural nerve

What is the primary function of the gastrocnemius muscle?

- A. Dorsiflexions of the foot
- B. Plantarflexions of the foot ✓
- C. Eversion of the foot
- D. Flexions of the toes