Inferior Limb
Inferior Limb Innervation

Lumbosacral Plexus
Inferior Limb Innervation

Lumbosacral Plexus

Femoral nerve
Inferior Limb Innervation

Lumbosacral Plexus

Obturator nerve
Inferior Limb Innervation

**Lumbosacral Plexus**

- Gluteal nerves
- Superior gluteal nerve
- Inferior gluteal nerve
Lumbosacral Plexus

Sciatic nerve
Inferior Limb Innervation

Lumbosacral Plexus

Common fibular nerve
Inferior Limb Innervation

Lumbosacral Plexus

Tibial nerve
Inferior Limb Innervation

Anterior versus Posterior Divisions
Fascia of the Inferior Limb

**Fascia**

- Fascia lata
- Iliotibial tract
- Crural fascia
Lower Limb Muscle Groups

Deep Hip Rotators
Lower Limb Muscle Groups

Gluteal Muscles
Lower Limb Muscle Groups

Hip Flexors
Compartment of the Thigh

- Anterior compartment
- Medial compartment
- Posterior compartment
CompartmentsoftheCrus

Anterior compartment
Lateral compartment
Posterior compartment
Hip Joint

Joint Structure

Type of Joint Articulations
Ligaments

Pubofemoral ligament
Hip Joint

**Ligaments**

Iliofemoral ligament
Ligaments

Iliofemoral ligament
Ligaments

Ischiofemoral ligament
Hip Joint

Movements

Flexion
Hip Joint

Movements

Extension
Hip Joint

Movements

Abduction
Movements

Adduction
Hip Joint

**Movements**

Medial rotation
Movements
Lateral rotation
Deep Hip Rotators

Obturator internus
Deep Hip Rotators

Obturator internus
Deep Hip Rotators

**Obturator internus**

**Attachments**
- Origin
- Insertion
Deep Hip Rotators

**Obturator internus**

Topography
Deep Hip Rotators

**Obturator internus**

Topography
Deep Hip Rotators

Superior gemellus
Deep Hip Rotators

**Superior gemellus**

**Attachments**

- **Origin**
- **Insertion**
Deep Hip Rotators

Superior gemellus

Topography
Deep Hip Rotators

Superior gemellus

Topography
Deep Hip Rotators

Inferior gemellus
Deep Hip Rotators

Inferior gemellus
Deep Hip Rotators

**Inferior gemellus**

**Attachments**

- **Origin**
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Deep Hip Rotators

**Inferior gemellus**

Topography
Deep Hip Rotators

Inferior gemellus

Topography
Deep Hip Rotators

Quadratus femoris
Deep Hip Rotators

Quadratus femoris
Deep Hip Rotators

**Quadratus femoris**

**Attachments**
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Deep Hip Rotators

**Quadratus femoris**

Topography
Deep Hip Rotators

**Quadratus femoris**

Topography
Deep Hip Rotators

Piriformis
Deep Hip Rotators

Piriformis
Deep Hip Rotators

Piriformis
Deep Hip Rotators

**Piriformis**

Attachments

- **Origin**
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Deep Hip Rotators

Piriformis

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Deep Hip Rotators

Piriformis

Topography
Deep Hip Rotators

Obturator externus
Deep Hip Rotators

Obturator externus
Deep Hip Rotators

Obturator externus
Deep Hip Rotators

Obturator externus
Deep Hip Rotators

**Obturator externus**

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Deep Hip Rotators

**Obturator externus**

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Deep Hip Rotators

**Obturator externus**

Topography
Deep Hip Rotators

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Deep Hip Rotators

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Deep Hip Rotators

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Topography
Gluteal Muscles

Gluteus minimis
Gluteal Muscles

Gluteus minimis
Gluteal Muscles

Gluteus minimis

Attachments

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Gluteal Muscles

**Gluteus minimis**

**Attachments**

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Gluteal Muscles

Gluteus minimis

Topography
Gluteal Muscles

Gluteus minimis

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Gluteal Muscles

**Gluteus minimis**

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Gluteal Muscles

Gluteus minimis

Topography
Gluteal Muscles

Gluteus medius
Gluteal Muscles

Gluteus medius
Gluteal Muscles

**Gluteus medius**

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Gluteal Muscles

Gluteus medius

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Gluteal Muscles

Gluteus medius

Topography
Gluteal Muscles

Gluteus maximus
Inferior Limb

Gluteus maximus
Gluteal Muscles

**Gluteus maximus**

Attachments
- Origin
- Insertion
Gluteal Muscles

Gluteus maximus

Topography
Gluteal Muscles

Gluteus maximus

Topography
Gluteal Muscles

Tensor fasciae latae
Gluteal Muscles

Tensor fasciae latae
Gluteal Muscles

Tensor fasciae latae
Gluteal Muscles

Tensor fasciae latae
Gluteal Muscles

Tensor fasciae latae
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Tensor fasciae latae

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Tensor fasciae latae

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Gluteal Muscles

Tensor fasciae latae

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Gluteal Muscles

Tensor fasciae latae

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Gluteal Muscles

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Gluteal Muscles

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Gluteal Muscles

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Topography
Gluteal Muscles

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Topography
Muscle Innervation

Superior gluteal nerve
Small gluteal muscles
Inferior Limb Innervation

Muscle Innervation

Inferior gluteal nerve
Gluteus maximus muscle
Inferior Limb

Psoas major
Hip Flexors

Psoas major
Hip Flexors

Psoas major

Attachments

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Psoas major
Topography
Hip Flexors

Psoas major

Topography
Hip Flexors

Iliacus
Hip Flexors

Iliacus
Hip Flexors

**Iliacus**

**Attachments**
- Origin
- Insertion
Hip Flexors

Iliacus

Topography
Hip Flexors

Iliacus

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Hip Flexors

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Hip Flexors

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Summary

Topography
Summary

Topography
Summary
Thinking about pulleys
Topography of the Gluteal Region

**Neurovascular Anatomy Above Piriformis**

Superior gluteal neurovascular bundle
Topography of the Gluteal Region

Neurovascular Anatomy Below Piriformis

Inferior gluteal neurovascular bundle
Topography of the Gluteal Region

Neurovascular Anatomy Below Piriformis

Internal pudendal neurovascular bundle
Neurovascular Anatomy Below Piriformis

Sciatic nerve
Medial Thigh Compartment

**Pectineus**
Medial Thigh Compartment

Pectineus
Medial Thigh Compartment

**Pectineus**
Medial Thigh Compartment

**Pectineus**

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- **Origin**
- **Insertion**
Medial Thigh Compartment

**Pectineus**

**Attachments**
- **Origin**
- **Insertion**
Medial Thigh Compartment

**Pectineus**

Topography
Medial Thigh Compartment

**Pectineus**

Topography
Medial Thigh Compartment

Adductor brevis
Medial Thigh Compartment

Adductor brevis
Medial Thigh Compartment

Adductor brevis
Medial Thigh Compartment

**Adductor brevis**

Attachments

- **Origin**
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Medial Thigh Compartment

Adductor brevis

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**Adductor brevis**

Topography
Medial Thigh Compartment

Adductor brevis

Topography
Medial Thigh Compartment

Adductor longus
Medial Thigh Compartment

Adductor longus
Medial Thigh Compartment

Adductor longus
Medial Thigh Compartment

**Adductor longus**

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Medial Thigh Compartment

**Adductor longus**

**Attachments**

**Origin**
**Insertion**
Medial Thigh Compartment

Adductor longus

Topography
Medial Thigh Compartment

Adductor longus

Topography
Medial Thigh Compartment

Adductor minimis
Medial Thigh Compartment

Adductor minimis
Medial Thigh Compartment

Adductor minimis
Medial Thigh Compartment

Adductor minimis

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- Origin
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**Adductor minimis**

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**Adductor minimis**

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Medial Thigh Compartment

**Adductor minimis**

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Medial Thigh Compartment

Adductor minimis

Topography
Medial Thigh Compartment

Adductor magnus
Medial Thigh Compartment

Adductor magnus
Medial Thigh Compartment

Adductor magnus
Adductor magnus

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Medial Thigh Compartment

**Adductor magnus**

**Attachments**

**Origin**

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Medial Thigh Compartment

Adductor magnus

Topography
Medial Thigh Compartment

**Adductor magnus**

Topography
Medial Thigh Compartment

Adductor magnus

Topography
Medial Thigh Compartment

Gracilis
Medial Thigh Compartment

Gracilis
Medial Thigh Compartment

Gracilis
Medial Thigh Compartment

Gracilis

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- Origin
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Medial Thigh Compartment

Gracilis

Topography
Medial Thigh Compartment

**Gracilis**

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Medial Thigh Compartment

**Gracilis**
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Medial Thigh Compartment
Medial Thigh Compartment

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Medial Thigh Compartment

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Topography
Medial Thigh Compartment

Summary

Topography
Muscle Innervation

Obturator nerve
Medial compartment and obturator externus