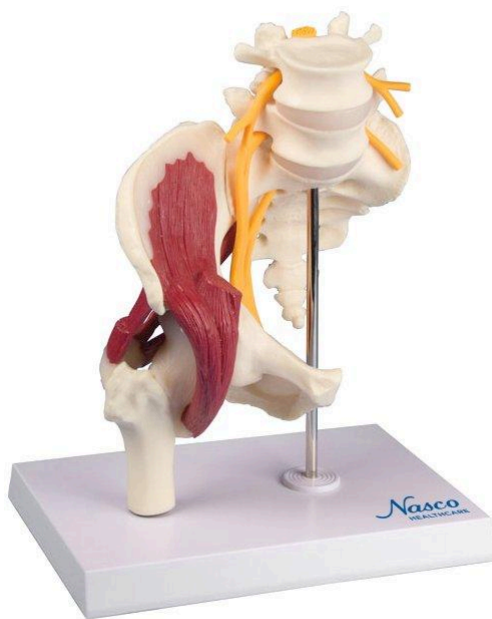




## **MG35509 | HUMAN HIP WITH MUSCLES AND SCIATIC NERVE**

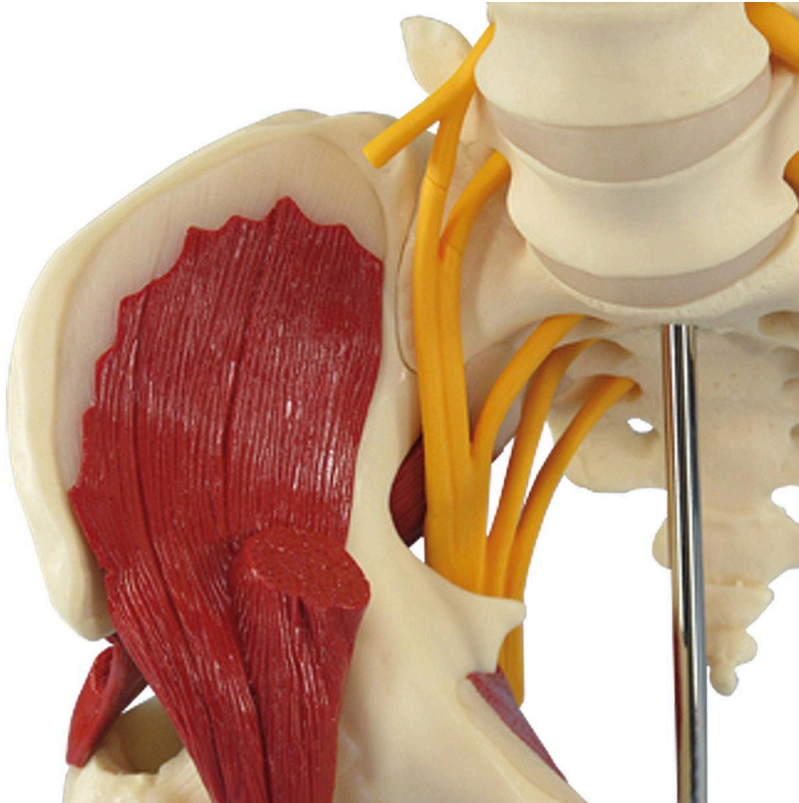


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Anatomical Model of the Hip with Muscles and Sciatic Nerve, representing a normal right hip at life size, including the proximal region of the femur and the lower lumbar vertebrae (L4-L5) and sacrum. The model shows muscular and nervous details, mounted on a polymer base with support and metal rod. Structures are hand-painted and numbered for easy identification.

**Applications:**

Ideal for the study of human anatomy in schools and universities, professional training, patient explanations and demonstrations in medical-scientific contexts. Indicated for the study of hip joints, muscles and nerves, highlighting important anatomical points and related pathologies.

**Technical Differentials:**

- \* Detailed representation of anatomical structures of the hip, including muscles, nerves and bones.
- \* High fidelity in the reproduction of anatomical structures.
- \* Manufactured from stable synthetic material and resin with approval in toxicological tests,



ensuring durability and resistance.

- \* High quality natural molding.
- \* Life-size replicas.
- \* Hand-painted and numbered for precise identification of structures.
- \* Includes an information card with related structures.
- \* Bony landmarks and references included.

### **3D Technology and Augmented Reality:**

Our anatomical models offer a visual complement through information cards that activate 3D models viewable in augmented reality (AR). This interactive platform assists learning, allowing comparative analysis of anatomical structures and offering resources for continuing education in anatomy, physiology and pathophysiology.

### **Technical Specifications:**

- \* Scale: Life size.
- \* Material: Resin and polymer.

### **Main Structures:**

**Lumbar Vertebra L4:** Fourth lumbar vertebra, characterized by its vertebral body larger than the thoracic vertebrae and by its robust transverse processes. It participates in the support of body weight and the mobility of the lumbar spine.

**Lumbar Nerve L4:** One of the five lumbar nerves that emerges from the spinal cord. It innervates part of the anterior region of the thigh and knee, contributing to the sensitivity and motor skills of these areas.

**Lumbar Vertebra L5:** Fifth lumbar vertebra, the most inferior of the lumbar spine, articulates with the sacrum. It presents morphological characteristics similar to L4, but with some individual variations.

**Lumbar Nerve L5:** Nerve that innervates the gluteal region and part of the leg, contributing to the sensitivity and motor skills of these areas. Its compression can cause sciatica.

**Intervertebral Disc:** Fibrocartilaginous structure located between the vertebral bodies, acting as a shock absorber and allowing the flexibility of the vertebral column.

**Sacrum:** Triangular bone formed by the fusion of five sacral vertebrae. It articulates with the



fifth lumbar vertebra and the iliac bones, forming the sacroiliac joint.

**Sacral Nerve S1:** First sacral nerve, contributes to the innervation of the lower limbs, including the gluteal region and posterior thigh.

**Sacral Nerve S2:** Second sacral nerve, participates in the innervation of the lower limbs, with contribution to the sensitivity and motor skills of the region.

**Psoas Muscle:** Long and powerful muscle that originates in the lumbar vertebrae and inserts into the femur. It is important for hip flexion and lumbar spine stability.

**Joint Capsule:** Fibrous membrane that surrounds the hip joint, providing stability and protection.

Other structures can be verified directly on the physical piece or on the interactive 3D model.

#### **About Anatomical Models:**

They are developed with resin replication technology, offering an alternative for teaching and research. They present the essential morphological characteristics, combining cost-effectiveness, resistance, hand painting and numbering for precise identification of structures.

Acquire our anatomical model and provide an enhanced learning experience at your institution. Contact us to

#### **List of all visible structures:**

- Lumbar vertebra L4
- Lumbar nerve L4
- Lumbar vertebra L5
- Lumbar nerve L5
- Intervertebral disc
- Sacrum
- Sacral nerve S1
- Sacral nerve S2
- Sacral nerve S1
- Psoas muscle
- Capsule
- Femur
- Spinal cord



- Gluteus medius muscle
- Sciatic notch
- Gluteus minimus muscle
- Piriformis muscle
- Superior gemellus muscle
- Obturator internus muscle
- Inferior gemellus muscle
- Sciatic nerve
- Iliacus muscle