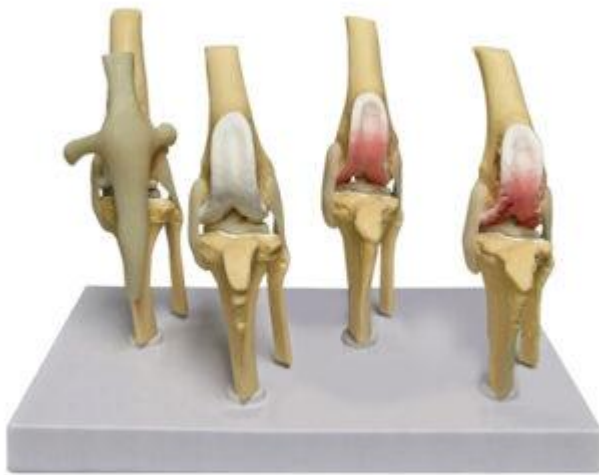




MG38400 | CANINE OSTEOARTHRITIS KNEE









Set of four life-size canine anatomical knee models illustrating a healthy knee and three stages of osteoarthritis (degenerative joint disease), highlighting articular surface degeneration and osteophyte development. Each model features important anatomical details, including ligaments, tendons, and patella.

Applications:

Ideal for teaching and demonstration in veterinary clinics, classrooms, laboratories, and research institutions. Suitable for veterinary students, veterinarians, teachers, and patients. Serves as an educational tool for understanding canine knee anatomy and pathology.

Technical Advantages:

- * Numbered and hand-painted models with didactic colors, providing rich detail for better learning.
- * Detailed representation of canine knee anatomy, including stages of osteoarthritis.
- * Manufactured with synthetic resin, approved in toxicological tests, ensuring durability and resistance.
- * Life-size replicas, ensuring anatomical accuracy.



- * Includes an information card identifying the structures.
- * Mounted on a polymer base.

3D Technology and Augmented Reality:

Our anatomical models offer a visual complement through information cards that allow visualization of 3D models 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: Synthetic resin.
- * Molding: Precise.
- * Finish: Hand-painted.

Main Structures:

Quadriceps Tendon: Important tendon connecting the quadriceps muscles of the thigh to the patella, playing a crucial role in extending the knee joint.

Femoropatellar Ligament: Part of the patellar ligament, this ligament stabilizes the patella relative to the femur, guiding patellar movement during knee flexion and extension.

Medial Meniscus: Crescent-shaped fibrocartilaginous structure located in the medial compartment of the knee. Its main function is to cushion impacts, distribute load, and stabilize the joint.

Patellar Ligament: Strong tendon connecting the patella to the tibial tuberosity, transmitting the quadriceps extension force to the tibia.

Medial Collateral Ligament (MCL): Ligament located on the medial side of the knee, responsible for medial stabilization of the joint, preventing excessive valgus movement (medial opening).

Tibia: Long bone of the leg, located medially, which articulates with the femur at the knee and with the talus at the ankle.

Fibula: Long bone of the leg, located laterally, which articulates with the tibia and talus,



contributing to ankle stability.

Femur: Long bone of the thigh, which articulates with the tibia and patella at the knee. Its distal end participates in the formation of the knee joint.

Lateral Meniscus: Crescent-shaped fibrocartilaginous structure located in the lateral compartment of the knee, with functions similar to the medial meniscus.

Healthy Canine Knee: Representation of the normal anatomy of the canine knee, without signs of degeneration or disease.

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

About the Anatomical Models:

They are developed with resin replication technology, offering an alternative for teaching and research. They present the main morphological characteristics with a good cost-benefit ratio, resistance, hand painting, and numbering for precise identification of structures.

List of all visible structures:

- Quadriceps tendon
- Patellar ligament
- Medial meniscus
- Patellar ligament
- Medial collateral ligament
- Tibia
- Tibia
- Tibia
- Tibia
- Fibula
- Fibula
- Fibula
- Fibula
- Femur
- Femur
- Femur
- Femur
- Lateral meniscus
- Lateral meniscus
- Lateral meniscus
- Lateral meniscus



- Medial meniscus
- Medial meniscus
- Medial meniscus
- Medial meniscus
- Medial collateral ligament
- Medial collateral ligament
- Medial collateral ligament
- Healthy Canine Knee
- Canine Knee Initial Pathology
- Canine Knee Moderate Pathology
- Canine Knee Advanced Pathology
- Articular cartilage erosion
- Articular cartilage erosion
- Articular cartilage erosion
- Osteophytes (bone spurs) at articular margins
- Osteophytes (bone spurs) at articular margins
- Osteophytes (bone spurs) at articular margins
- Synovial membrane
- Synovial membrane
- Synovial membrane
- Synovitis
- Synovitis
- Inflammation
- Inflammation