MG34918 | MUSCLED CERVICAL SPINE





Cervical Vertebral Column Anatomical Model: A life-size model that includes the brainstem and occipital bone, as well as the atlas and axis to C7, with muscles, representation of a herniated disc, and vertebrae T1, T2, and T3. It also features the cerebellum and the complete nerve with brachial plexus on the right side, including the first and second right ribs with cartilage.

Applications:

Ideal for orthopedics, general medicine, anatomical study, medical and scientific training and demonstration. Suitable for consulting rooms, examination rooms, waiting rooms, and educational institutions (schools and universities). Valuable educational tool for patients.

Features:

* Detailed representation of the main anatomical structures, including the representation of lesions (herniated disc).
* High-precision molding.
* Manufactured from stable and non-toxic synthetic resin.
* Life-size replicas.
* Manual numbering and painting for identification of structures.
* Includes base, metal rod, and information card with related structures.

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 education in anatomy, physiology, and pathophysiology.

Technical Specifications:

* Material: Synthetic resin.
* Scale: Life-size.
* Includes base and metal rod.
* Presents bone references and landmarks.
* Includes information card.

Main Structures:

Cerebellum: Part of the brain located posteriorly to the brainstem, responsible for motor coordination, balance, and posture.

Ligaments: Fibrous connective tissues that connect bones, providing joint stability and limiting excessive movement in the vertebral column.

Spinal cord: Elongated nerve structure that extends from the brainstem to the lumbar region, transmitting nerve impulses between the brain and the body.

C-1 Atlas: First cervical vertebra, which articulates with the occipital bone of the skull, allowing the rotation movement of the head.

C-2 Axis: Second cervical vertebra, which has an odontoid process (dens) that articulates with the atlas, allowing the rotation movement of the head.

C-3: Third cervical vertebra, with typical characteristics of the cervical vertebrae, contributing to the flexibility of the neck.

C-4: Fourth cervical vertebra, similar in structure to vertebrae C3 and C5, participating in the support and mobility of the cervical region.

C-5: Fifth cervical vertebra, with typical morphological characteristics of the mid-cervical

vertebrae, contributing to the range of motion of the neck.

Longus capitis muscle: Muscle that flexes the head and inclines it to the same side of the contraction.

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 good cost-benefit, resistance, and manual painting and numbering for precise identification of structures.

List of all visible structures:

- Cerebellum
- Ligaments
- Spinal cord
- C-1 Atlas
- C-2 Axis
- C-3
- C-4
- C-5
- C-6
- C-7
- T-1
- T-2
- T-3
- Longus capitis muscle
- Middle scalene muscles
- Brachial plexus
- Posterior scalene muscle
- Anterior scalene muscle
- First rib T-1
- Costal cartilage
- Second rib T-2
- Axis C-2
- C-3
- C-4
- C-5
- C-6
- C-7

- T-1
- Atlas C-1
- T-2
- T-3