



**MG21720 | HUMAN NEURO-ANATOMICAL
BRAIN 4 PARTS, 1.5 TIMES ENLARGED**





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A 1.5x enlarged model of the human brain, with didactic color-coding for brain regions. The left half is sectionable into 4 parts, revealing parietal, temporal, and occipital lobes, as well as half of the brainstem and cerebellum. The right half displays the color-coded brain regions, while the left demonstrates the functional areas also in color.

Applications:

- * Anatomical study in schools and universities;
- * Surgical dissection training;
- * Patient education;
- * Procedure demonstration;
- * Medical and scientific information.

Technical Characteristics:

- * High-precision natural molding;
- * Made of resistant and durable synthetic material;
- * Original replicas;
- * Numbered and hand-painted;
- * Includes an information card with related structures;
- * Polymer base with support and metal rod;
- * Resin approved in toxicological tests.

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 for comparative analysis of anatomical structures and offering resources for continuing education in anatomy, physiology, and pathophysiology.

Technical Specifications:

- * Scale: 1.5 times natural size;
- * Material: Synthetic resin.

Main Structures:



Frontal Lobe: Anterior region of the brain, responsible for executive functions such as planning, decision-making, voluntary behavior, and higher-order cognitive functions.

Parietal Lobe: Located posterior to the frontal lobe, processes sensory information such as touch, temperature, pain, and pressure, as well as contributing to spatial perception and orientation.

Occipital Lobe: Posterior region of the brain, responsible for visual processing.

Temporal Lobe: Located laterally, involved in memory, auditory processing, language comprehension, and object recognition.

Cerebellum: Structure located in the posterior and inferior part of the brain, crucial for motor control, balance, coordination, and motor learning.

Brainstem: Connects the brain to the spinal cord, controlling vital functions such as breathing, heartbeat, and blood pressure.

Right Cerebral Hemisphere: Responsible for functions such as spatial processing, facial recognition, creativity, and intuition.

Left Cerebral Hemisphere: Associated with functions such as language, logic, analytical reasoning, and mathematical skills.

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:

- rational and logical
- rational and logical
- analytic and language
- analytic and language
- analytic and language
- left prefrontal
- left prefrontal



- right prefrontal
- right prefrontal
- right prefrontal
- creativity
- intuition
- Artistic, emotional and spatial
- Artistic, emotional and spatial
- Artistic, emotional and spatial
- premotor
- Motor speech
- Auditory input interpretation
- Hip
- Trunk
- Shoulder
- Arm
- Wrist
- Hand
- Fingers
- Thumb
- Neck
- Eyebrow
- Eye
- Face
- Lips
- Mandible
- Tongue
- Sensory speech
- Hip
- Trunk
- Neck
- Head
- Shoulder
- Arm
- hand
- Fingers
- thumb
- eye
- nose
- face
- lips
- teeth
- tongue
- throat



- abdomen
- taste input
- smell interpreter
- Sensory interpretation
- Motor cortex
- visual input
- olfactory nerve
- optic nerve
- oculomotor nerve
- trochlear nerve
- abducens nerve
- trigeminal nerve
- facial nerve
- vestibulocochlear nerve
- hypoglossal nerve
- glossopharyngeal nerve
- accessory nerve
- vagus nerve