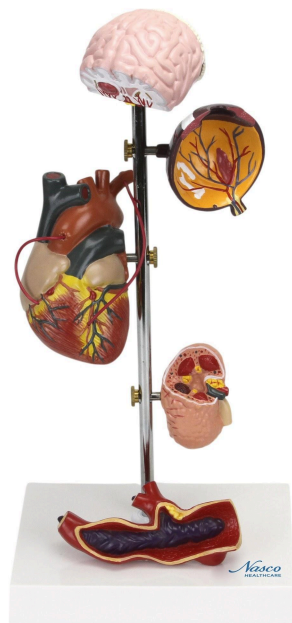




MG22747 | EFFECTS OF ARTERIAL HYPERTENSION, 5 PARTS



This life-size anatomical model demonstrates the effects of high blood pressure on five major organs: brain, eye, heart, kidney, and arteries. The parts are movable, allowing for a detailed analysis of pathologies related to hypertension, with rich detail and manual numbering for easy identification of structures.

Applications:

Ideal for the study of anatomy in schools and universities; indicated for professional training in the medical field; used for medical and scientific information; a support tool for teaching and understanding the effects of high blood pressure.

Technical Differentiators:



- * High didactic level;
- * Manual numbering to facilitate the identification of structures;
- * Rich detail for better learning;
- * High-quality natural molding;
- * Manufactured from stable and resistant synthetic material;
- * Detailed replicas;
- * Life-size parts and out-of-scale parts;
- * Hand-painted;
- * Includes an information card with related structures;
- * Polymer base with support and metal rod;
- * Resin with approval 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 complements learning, allowing for comparative analysis of anatomical structures and offering resources for continuing education in anatomy, physiology, and pathophysiology.

Technical Specifications:

- * Material: Resin
- * Scale: Life size (some parts out of scale)

Main Structures:

Brain: The central organ of the nervous system, responsible for various functions, including motor control, cognition, and emotions. Hypertension can cause strokes (cerebrovascular accidents) in the brain, leading to neurological damage.

Eye: The organ of vision. Hypertension can cause glaucoma, increasing intraocular pressure and damaging the optic nerve.

Heart: The main organ of the cardiovascular system, responsible for pumping blood to the body. Hypertension overloads the heart, potentially leading to heart attacks, arrhythmias, and atrophy of the heart muscle.

Kidney: Organ responsible for blood filtration and waste excretion. Hypertension can cause chronic kidney disease, compromising its function.



Arteries: Blood vessels that carry oxygenated blood from the heart to the body. Hypertension damages the artery walls, increasing the risk of atherosclerosis and other cardiovascular complications.

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, meeting the need for anatomical pieces for teaching and research. They present the essential morphological characteristics with excellent cost-benefit, resistance, manual painting, and numbering for precise identification of structures.

List of all visible structures:

- Small cardiac vein
- Right coronary artery
- Right coronary artery obstruction
- Left anterior descending artery
- Left coronary artery obstruction
- Great cardiac vein
- Right atrium
- Superior vena cava
- Aorta
- Aortic arch
- Left atrium
- Right ventricle
- Left ventricle
- Internal mammary artery
- Saphenous vein
- Left pulmonary artery
- Brachiocephalic trunk
- Left common carotid artery
- Left subclavian artery
- Apex
- Left pulmonary vein
- Inferior vena cava
- Coronary sinus
- Middle cardiac vein
- Right anterior descending artery
- Cortex



- Fibrous capsule
- Fat
- Fat
- Fat
- Cyst
- Ureter
- Renal artery
- Renal vein
- Renal pyramid
- Calix
- Renal pelvis
- Polycystic kidney
- Optic nerve
- Retina
- Ora serrata
- Central retinal artery
- Central retinal vein
- Ciliary body
- Iris
- Sclera
- Longitudinal fissure
- Lateral ventricle
- Thalamus
- Cerebral cortex
- Lateral fissure
- Hemorrhagic stroke
- Telencephalon
- Intraventricular meningioma
- Occipital bone
- Hemorrhages
- Hard exudates (lipoprotein deposits)
- Cotton wool spots (infarcted nerve fibers)
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- Narrowed lumen
- Blood clot
- Plaque (lipid deposits and calcification)