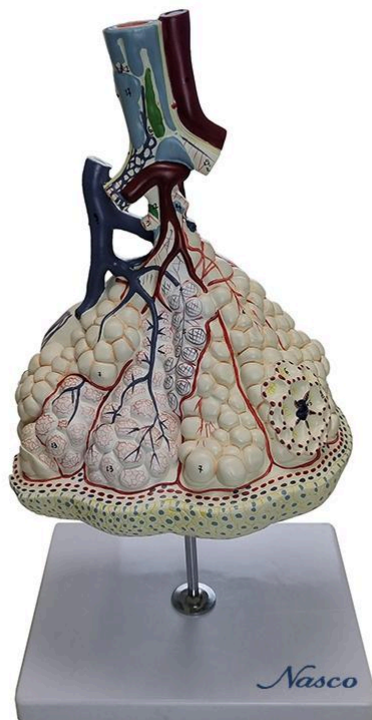
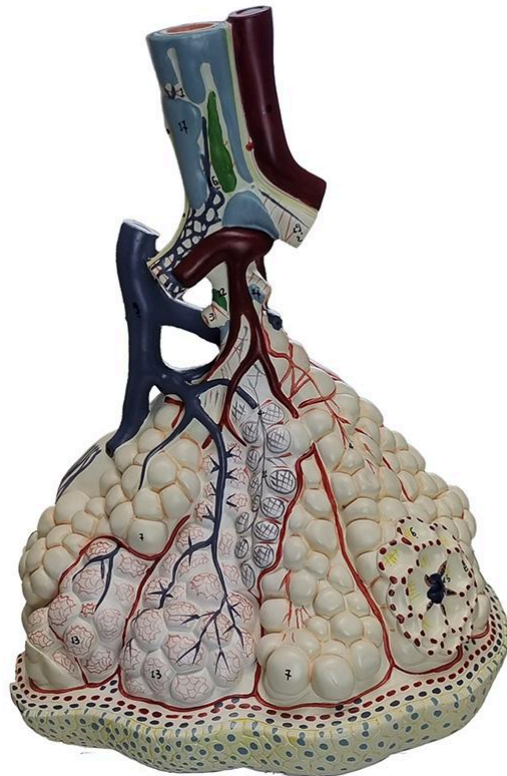
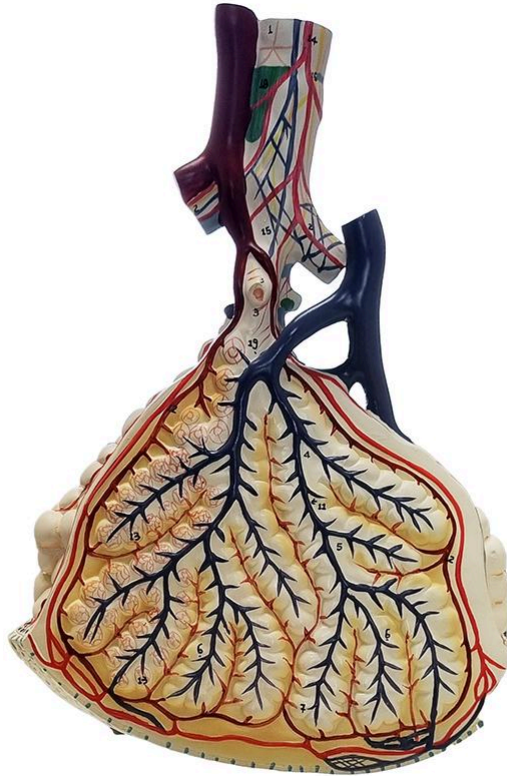




MG13129 | PULMONARY LOBULE WITH BLOOD VESSELS







An enlarged representation of a pulmonary lobule, exhibiting in detail the arterial and venous circulation, in addition to the bronchial branches. It presents a section revealing the alveolar duct, allowing internal visualization of the alveolar structures. The model is mounted on a polymer base with a metal support and rod, and includes an information card with the related structures.

Applications:

Ideal for the study and teaching of respiratory anatomy and physiology in schools, universities, and healthcare institutions. Indicated for training medical professionals, such as medical, nursing, and physiotherapy students. Used in demonstrations and presentations on the respiratory system. Allows understanding of the structure and function of the pulmonary lobule, including blood circulation and ventilation.

Technical Differentiators:

- * Detailed representation of the structure of the pulmonary lobule, including bronchioles, alveoli, and blood vessels.
- * High-precision anatomical natural molding.
- * Manufactured from stable synthetic material and resin approved in toxicological tests, ensuring durability and safety.
- * Replicas with structures and landmarks represented with fidelity.
- * Hand-painted and numbered for precise identification of structures.
- * Includes an information card with the related structures.

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

Technical Specifications:

- * Scale: approximately 150x
- * Material: Synthetic resin
- * Includes polymer base with metal support and rod

Main Structures:

Lobular Bronchiole: A branch of the bronchi that ramifies within the pulmonary lobule, conducting air to the terminal bronchioles.

Terminal Bronchiole: Represents the final portion of the conducting bronchial tree, marking



the transition to the respiratory zone. It does not have alveoli.

Respiratory Bronchiole: Is the first part of the respiratory zone, characterized by the beginning of gas exchange, as it has alveoli in its walls.

Alveolar Duct: Small canal that connects the respiratory bronchioles to the alveolar sacs.

Atria of the Lung: Transition spaces between the alveolar ducts and the alveolar sacs.

Alveolar Sacs: Collection of alveoli that open into a common space.

Alveolus: The basic functional unit of gas exchange in the lung. Its thin wall allows the passage of oxygen into the blood and carbon dioxide into the alveolar air.

Alveolar Septum: Thin wall that separates adjacent alveoli, rich in blood capillaries.

Branch of the Pulmonary Artery: Blood vessel that transports deoxygenated blood from the heart to the lungs for oxygenation.

Network of Bronchiole Venules: Network of small veins that drain blood from the bronchioles.

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

List of all visible structures:

- Bronchiole arteriole
- Nerves of the bronchiole
- Lobular bronchiole
- Mucous gland
- Terminal bronchiole
- Nerves of the bronchiole
- Terminal bronchiole
- Respiratory bronchiole
- Smooth muscle
- Vein
- Alveolar duct



- Vein
- Arteriole
- Atria of the lung
- Alveolar capillaries
- Alveolar sacs
- Alveolus
- Alveolar sacs
- Alveolar capillaries
- Atria of the lung
- Alveolar septum
- Alveolar sacs
- Alveolar duct
- Alveolar duct
- Elastic fiber
- Alveolus
- Alveolar capillaries
- Alveolar capillaries
- Alveolus
- Cartilage
- Lymphatic vessel
- Respiratory bronchiole
- Branch of the pulmonary artery
- Smooth muscle
- Network of bronchiole venules
- Cartilage
- Lobular bronchiole