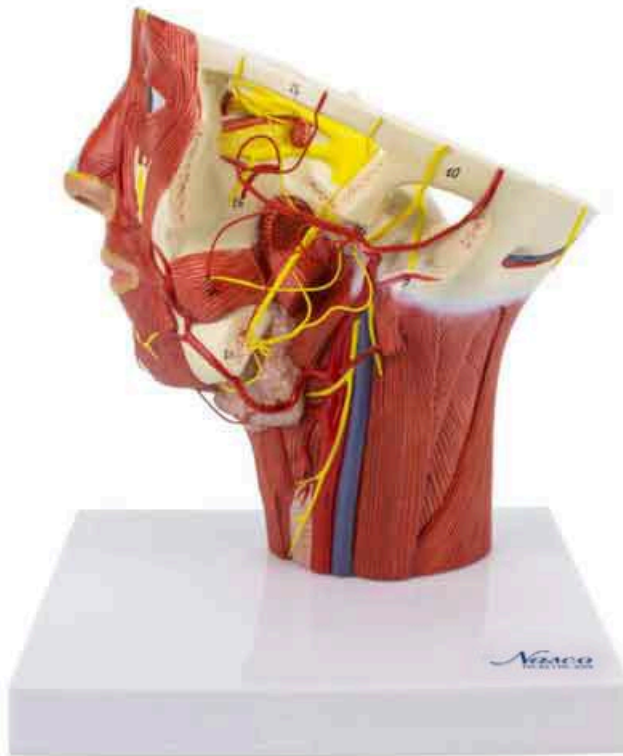
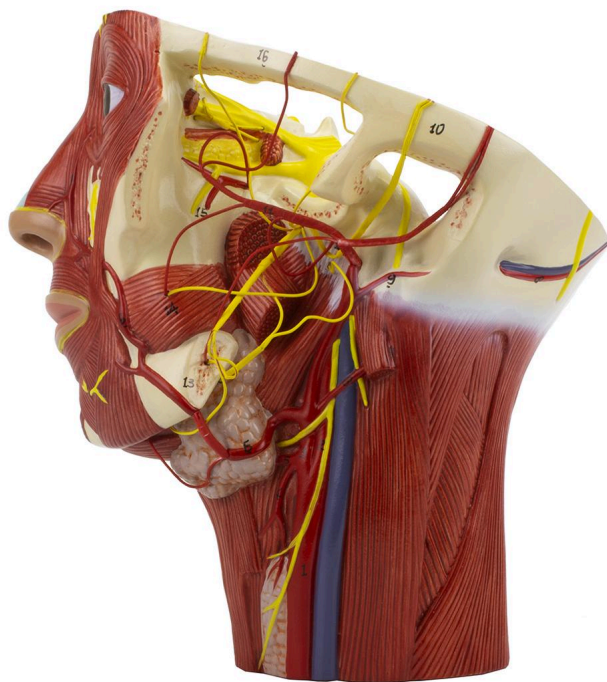
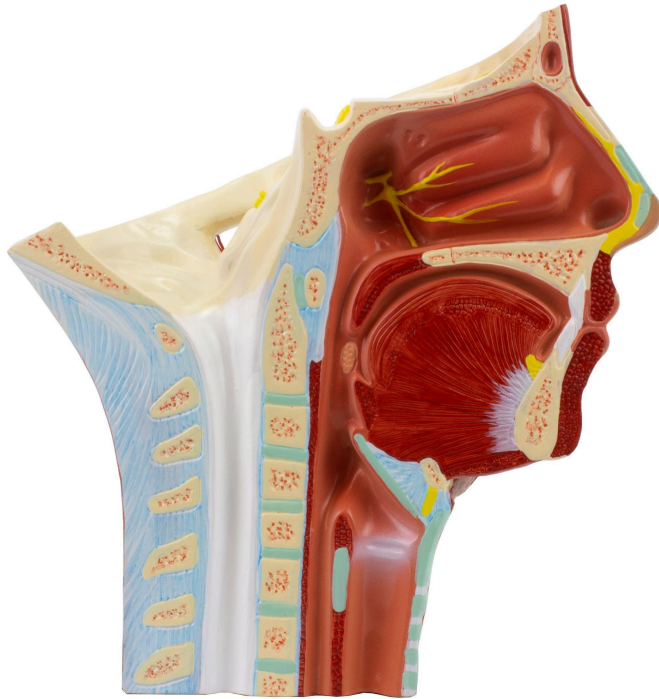
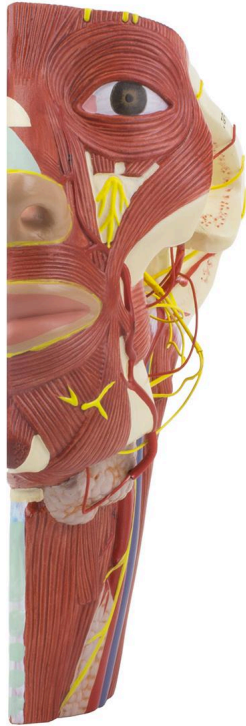




## **MG29865 | HEAD MUSCLES WITH ARTERIES**







This life-size anatomical model details the left external carotid artery and its terminal branches, offering a faithful representation for in-depth study of the region's vascularization.

**Applications:**

Ideal for in-depth study of the vascular anatomy of the neck and head region, this model is an essential tool for students and healthcare professionals. It is especially suitable for encouraging learning, educational support, comparative analysis of anatomical structures, and continuing education in anatomy, physiology, and pathophysiology.

**Technical Differentiators:**

Faithful life-size representation of the left external carotid artery and its terminal branches. Includes an interactive 3D anatomical model with augmented reality, optimizing the learning experience and understanding of the structures.

**3D Technology and Augmented Reality:**

Our anatomical models offer an innovative visual complement through informative cards that activate 3D models viewable in augmented reality (AR). This exclusive interactive platform stimulates learning, allowing for comparative analysis of anatomical structures and offering opportunities for continuing education in anatomy, physiology, and pathophysiology.

**Technical Specifications:**

- \* Scale: Life-size
- \* Material: Resin

**Smart Tags:**

Designed to provide comprehensive training in the healthcare field, with interactive simulations covering Retina, Ear, Throat, and Pulse exams. This solution assists in the development of diagnostic skills in different clinical scenarios, allowing professionals and students to explore and enhance their skills with greater safety and precision.

**Retinal exams:** Simulate 39 retinal conditions, from normal and diabetic retinopathy (various stages) to rare diseases like retinitis pigmentosa and macular degeneration.

- Normal
- Tessellated Fundus
- Large Optic Disc Cupping
- DR1 (Diabetic Retinopathy - Stage 1)
- DR2 (Diabetic Retinopathy - Stage 2)
- DR3 (Diabetic Retinopathy - Stage 3)
- Branch Retinal Vein Occlusion (BRVO)
- Central Retinal Vein Occlusion (CRVO)
- Retinal Artery Occlusion (RAO)
- Rhegmatogenous Retinal Detachment
- Central Serous Chorioretinopathy (CSCR)
- Vogt-Koyanagi-Harada Disease (VKH)
- Maculopathy
- Epiretinal Membrane (ERM)
- Macular Hole (MH)
- Pathological Myopia
- Possible Glaucoma
- Optic Atrophy
- Severe Hypertensive Retinopathy
- Optic Disc Swelling and Elevation
- Displaced Optic Disc
- Congenital Optic Disc Anomaly
- Retinitis Pigmentosa
- Bietti's Crystalline Dystrophy
- Peripheral Retinal Degeneration and Tear
- Myelinated Nerve Fibers
- Particles in Vitreous
- Fundus Neoplasia
- Massive Hard Exudates
- Yellowish-White Spots (Flecks)
- Cotton Wool Spots



- Vessel Tortuosity
- Chorioretinal Atrophy - Coloboma
- Preretinal Hemorrhage
- Fibrosis
- Laser Marks
- Silicone Oil in Eye
- Blurred Fundus Without PDR (Proliferative Diabetic Retinopathy)
- Blurred Fundus With Suspected PDR (Proliferative Diabetic Retinopathy)

**Ear exams:** Conduct 9 realistic diagnostic exams.

- AOM
- Chronic
- Ear Ventilation
- Earwax
- Foreign Object
- Normal
- Otitis Externa
- Pseudomembrane
- Tympanosclerosis

**Throat exams:** Conduct 6 realistic diagnostic exams.

- Normal
- Oral Cancer (Benign)
- Oral Cancer (Malignant)
- Oral Dysplasia
- Pharyngitis
- Tonsillitis

**Virtual Patient Monitor:** Provides an immersive and realistic training environment for healthcare students. It allows instructors to customize parameters for various vital signs, empowering students to interpret signals, develop critical thinking, and enhance their clinical reasoning skills through realistic scenarios.

#### **Customizable Vital Signs**

- Blood Pressure
- SpO2
- Heart Rate

**ECG Interpretation:** Train on 18 diverse ECG scenarios, including: Atrial Fibrillation, Ventricular Tachycardia and Heart Blocks. The monitor also simulates synchronized pulses with ECG for truly realistic cardiology training.

#### **ECG Patterns**

- Sinus Rhythm



- Atrial Extrasystole
- Atrial Flutter
- Atrial Fibrillation
- Paroxysmal Supraventricular Tachycardia (PSVT)
- Ventricular Extrasystole
- Ventricular Tachycardia (VT)
- Ventricular Fibrillation (VF)
- First-Degree Atrioventricular Block (AVB)
- Second-Degree Atrioventricular Block
- Third-Degree Atrioventricular Block (Complete Block)
- Long QT Syndrome
- ST Segment Elevation
- ST Segment Depression
- T Wave Inversion
- Left Ventricular Hypertrophy (LVH)
- Right Ventricular Hypertrophy (RVH)
- Wolff-Parkinson-White Syndrome (WPW)

### **Breathing Patterns**

- Normal
- Dyspnea
- Apnea
- Cheyne-Stokes
- Biot
- Kussmaul

### **About Anatomical Models:**

They are developed with resin replication technology, addressing the shortage of natural anatomical specimens for teaching and research. They present all the essential morphological characteristics with excellent cost-benefit, resistance, manual painting, and numbering for precise identification of structures.

### **List of all visible structures:**

- Common carotid artery
- Internal carotid artery
- External carotid artery
- Superior thyroid artery
- Lingual artery
- Facial artery
- Occipital artery



- Posterior auricular artery
- Middle meningeal artery
- Maxillary artery
- Superficial temporal artery
- Posterior superior alveolar artery
- Buccal artery
- Inferior alveolar artery
- Facial artery
- Angular artery
- Deep temporal artery