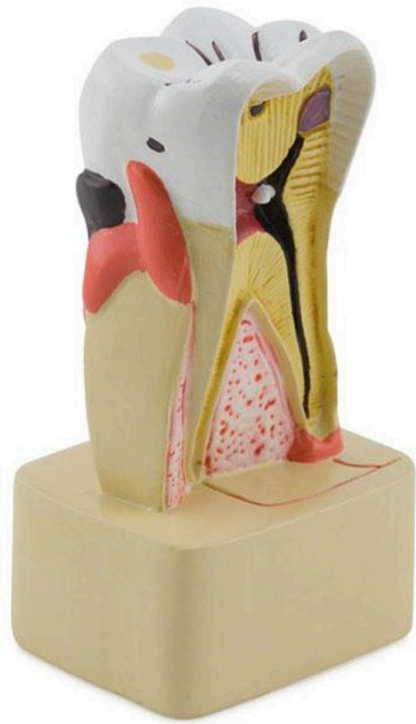




MG22728 | DENTAL DISEASE, 4 TIMES ENLARGED



Nasco
HEALTHCARE





4x Enlarged Dental Disease Model is a model four times the natural size, exhibiting in detail the process of dental caries in its progressive stages. It shows the tissues that make up the tooth (enamel, dentin, and pulp) and how they are affected by caries, offering a detailed visualization of the disease. The model is mounted on a support base and comes with a numbered and hand-painted information card, facilitating the identification of structures.

Applications:

Ideal for the study of the dental system in schools and universities; training in dental procedures; medical and scientific information; patient education and procedure demonstration.

Technical Characteristics:

- * High fidelity in the representation of anatomical structures;
- * Relevant details of the bone and circulatory system;
- * Numbered and hand-painted for easy identification;
- * High-quality natural molding;



- * Manufactured from stable synthetic material and resin with toxicological test approval;
- * Includes an information card with related structures;
- * Precise replicas.

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

Technical Specifications:

- * Material: Synthetic resin;
- * Scale: 4 times natural size.

Main Structures:

Enamel: The outer layer of the tooth, the hardest and most mineralized, composed mainly of hydroxyapatite crystals. Its main function is to protect the inner structures of the tooth against external aggressions and wear.

Caries: Lesion caused by the demineralization of enamel and dentin due to the action of acids produced by bacteria present in dental plaque. It begins superficially and can progress to the deeper structures of the tooth.

Caries stage 2: More advanced stage of caries, where the lesion has already reached deeper layers of the tooth structure, possibly the dentin, causing greater demineralization and possibly reaching the dental pulp.

Gingiva: Soft tissue that covers and protects the alveolar bone and the roots of the teeth. Its function is to provide support and protection to the teeth and periodontal structures.

Accumulated Plaque: Bacterial biofilm adhered to the surface of the tooth, composed of bacteria, food debris, and substances from saliva. It is the main cause of caries and periodontal diseases.

Dentin: Mineralized tissue that constitutes most of the tooth structure, located below the enamel. It is more porous than enamel, making it more susceptible to demineralization.



Cementum: Mineralized tissue that covers the root of the tooth, contributing to the attachment of the tooth to the alveolar bone.

Pulp Cavity: Internal space of the tooth that contains the dental pulp, composed of blood vessels, nerves, and connective tissue.

Infected Pulp: Inflamed and infected dental pulp, usually due to the progression of untreated caries. Causes intense pain and can lead to pulp necrosis.

Mandibular Bone: Bone that forms the lower dental arch, providing support to the teeth and periodontal structures.

Root Canal Containing the Nerve: Internal canals of the tooth root that contain blood vessels and nerves that nourish and innervate the dental pulp.

About Anatomical Models:

They are developed with resin replication technology, supplying the need for anatomical parts 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:

- Enamel
- Caries
- Stage 2 Caries
- Gingiva
- Plaque
- Dentin
- Cementum
- Pulp Chamber
- Infected Pulp
- Mandibular Bone
- Root Canal containing nerve
- Nerves
- Stage 1 Caries
- Stage 1 Caries