

Instruction for Use

Temporal Bone Model – Yamagata

REF M9700102

Read the Instructions for Use before using the product. Adhere to and save the Instructions for Use to avoid unwanted product damage.

Packaging and Sterility: Product is not sterile. Packaging: Cardboard box

Product Description

The Temporal Bone Model is an anatomically correct model of the middle ear including the mobile ossicles, chorda tympani, facial nerve and tympanic membrane. The Temporal Bone Model can be used for teaching and learning middle ear surgical procedures. It is a model of the right ear without anatomical anomalies, providing realistic conditions for surgical training. The ossicular chain is mobile. This provides a realistic simulation. The mobility of the ossicular chain enables differentiated manipulation and facilitates understanding of biomechanical processes in the middle ear.



Critical anatomical structures are color-coded for visualization:

- Sigmoid sinus: blue
- Dura: red
- Chorda tympani and facial nerve: yellow
- Semicircular canals: white

Caution: Special care must be taken when working near critical structures to avoid unwanted product damage.

Training Options

1. Temporal Bone Preparation

The following tools are suitable for working on the training model

Diamond Drill:

- Diameter: 7 mm, 3 mm, 2 mm, 1 mm
- Advantage: Precise control and fine drilling of structures

Round carbide cutters:

- Recommended choice due to less dust generation
- Effective for machining hard materials

2. Passive Middle Ear Implant Application

Instruments as usual middle ear surgery (tympanoplasty, stapes surgery)

Surgical Technique

The training model is designed for the following KURZ middle ear implants:

KURZ Stapes implant:

- Simulation of stapes surgery
- Insertion depth of the piston into the inner ear is limited to 0.2 mm

KURZ Total Ossicular Replacement Prosthesis (TORP):

- Functional length: Approximately 6.5 mm

KURZ Partial Ossicular Replacement Prosthesis (PORP):

- Functional length: Approximately 3.5 mm, corresponding total length of 4.5mm

Note: Implant application is performed using standard surgical procedures.

Personal Protective Equipment

The following protective equipment is required to protect the surgeon and reduce health risks:

- Safety goggles: To protect against particles and dust
- Face mask: To reduce exposure to dust and aerosols

Additional recommendation:

- Gloves
- Surgical clothing: Gown and surgical cap if required
- Ear plugs or hearing protection: Protection from high-pitched drilling noise
- Irrigation and suction: Use suction devices to remove milling dust and cool the drill site

Accessories:

Temporal Bone Model Holder
REF M9700103