Thyroid Nodules Biopsy and Ablation Training Platform

Designed for precise and immersive training, this platform allows biopsy and ablation practice on modular thyroid models with varied nodules. Featuring temperature monitoring and a “Danger Triangle” alert, it supports safe and effective procedural skill-building, enhancing proficiency in thyroid treatments.

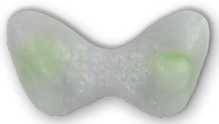
Trachea Base

Demonstration using THY-B01 model

THY-S01

THY-S01A

THY-S02



THY-S03

THY-S08

THY-S07

Procedures

- Thyroid nodules radiofrequency ablation (RFA).
- Thyroid nodules microwave ablation (MWA).
- Thyroid nodules laser ablation.
- Thyroid nodules cryoablation.
- Thyroid nodules core needle biopsy (CNB).
- Thyroid nodules fine needle aspiration (FNA).

Features

- Visible details under ultrasound-guided procedure.
  - Thyroid gland
  - Thyroid nodules
  - Trachea
  - Vessels around the danger triangle (carotid arteries and jugular veins)
  - Hyper-echogenic cloud due to ablation
- Different sizes of nodules, 2 and 3.2 cm OD, can be embedded in the thyroid pad.
- Embedded temperature sensors monitor the area around the recurrent laryngeal nerve, triggering an alarm if the danger zone is overheated/overcooled.
- The neck muscle pad can be punctured up to 50 times.
- Modular design leads to cost-effective training.
- Realistic appearance provides trainees with more immersive experiences.
- The platform can be carried out using a portable case.

Specification

Net Dimensions (L × W × H)	20.5 cm × 15.5 cm × 11 cm
Net Weight	2.5 kg
Gross Dimensions (L × W × H)	31 cm × 24 cm × 25.5 cm
Gross Weight	4 kg

Models

THY-B01A

» Applicable for RFA, MWA, laser ablation, cryoablation, CNB, and FNA
» Includes portable case, trachea base, neck muscle pad (THY-S06), thyroid pad for ablation (THY-S01), temperature indicator, temperature sensor connector, power, speaker

Spare Parts

THY-S01	Thyroid pad with two 2 cm OD nodules for MWA, RFA, laser ablation and cryoablation
THY-S01A	Thyroid pad with 2 cm and enlarged 3.2 cm OD nodules for MWA, RFA, laser ablation and cryoablation
THY-S08	Thyroid pad with two 2 cm OD nodules for ethanol ablation (PEI)
THY-S02	Thyroid pad with two 2 cm OD nodules for CNB
THY-S03	Thyroid pad with two 2 cm OD cysts for FNA
THY-S06	Neck muscle pad (applicable to THY-B01A Model)
THY-S07	Neck muscle pad for enlarged thyroid pad (applicable to THY-B01A Model)
THY-S05	Gel for electro-conduction in RFA procedure (60 mL/pack, compatible with human body impedance; required only for THY-B01 model)