

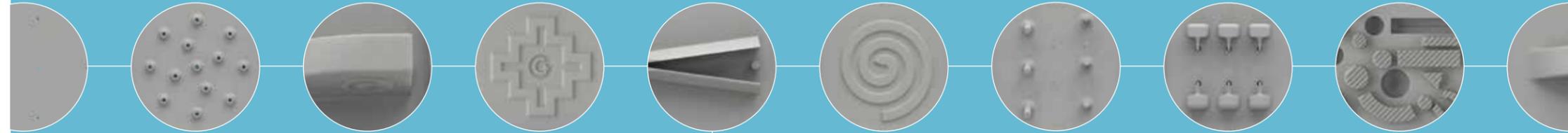
REF. #931,  
OtoSkills Trainer

The system includes the following:

ITEM	REF. #
Mount Midoriyama & Midoriyama's Revenge	931-001
Grand Prix & Monte Carlo	931-002
Stapes Challenge & Lord of the Rings	931-003
Flying V & The Maze	931-004
Stake Your Claim & Thread the Needle	931-005
TableTop Games & How to Play	931-006
OtoSkills Base Station	931-007
OtoSkills Adaptor, Small	931-008
OtoSkills Adaptor, Large	931-009
OtoSkills Hardware	931-010

Designed in conjunction with:  
Matthew Dedmon, MD, Chapel Hill, NC  
Instrumentation not included.

# OtoSkills Trainer



**References**

<sup>1</sup>Dedmon M, Xie D, O'Connell B, et al. Endoscopic Ear Surgery Skills Training Improves Medical Student Performance. *Journal of Surgical Education*. 2018.

<sup>2</sup>Dedmon M, Xie D, O'Connell B, et al. Development and Validation of a Modular Endoscopic Ear Surgery Skills Trainer. *Otology & Neurotology*. 2017; 38: 1193-1197.

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# OtoSkills Trainer

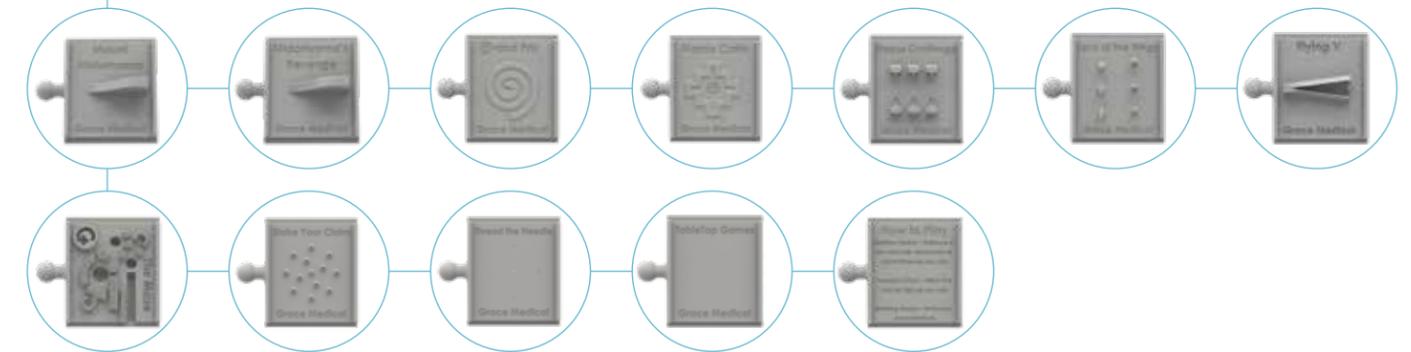
## Innovative, effective, and economical.

The Grace Medical OtoSkills Trainer is a breakthrough approach to reliable, cost-effective training for medical students, residents, fellows, and practicing physicians wanting to enhance their endoscopic and micro-instrumentation techniques.

Clinically validated to improve essential surgical skills,<sup>1,2</sup> the OtoSkills Trainer is durable, 100% reusable, and able to serve an entire Otolaryngology program while reducing the need to use temporal bones for training purposes.

## Simple, portable, and versatile.

The OtoSkills Trainer can be used anywhere there is an endoscope. Modules change out easily, and only two additional instruments are needed: Alligator Forceps and Rosen needle/curved pick. A portable wifi endoscopic camera can also be used with the OtoSkills Trainer, increasing its versatility. Small and portable, the OtoSkills Trainer comes in a Pelican case for easy transport and storage.



The OtoSkills Trainer provides a small dome (Base Station) into which 12 different modules can be placed. The Base Station's aperture can be adjusted with adaptors to create four levels of difficulty.

Each of the modules presents a unique challenge to develop and refine essential surgical capabilities:

- Dexterity
- Motor skills
- Depth perception
- Use of micro-instrumentation
- Proper manipulation of the endoscope to accomplish tasks

The OtoSkills Trainer supports all learning levels, enabling each user to move at his or her own pace and focus attention on specific areas of improvement.

Challenging, practical, and effective, the OtoSkills Trainer is also fun. Two clinical studies found that 100% of users were satisfied with the OtoSkills Trainer.<sup>1,2</sup>

## Clinically validated as effective.

### Journal of Surgical Education:

"Novice surgeons can exhibit significant skill improvement with repetitive practice on an EES trainer. Variable baseline skill and improvement rates highlight the individual characteristics of skill acquisition, which may be important factors during otolaryngology and endoscopic ear surgery training. Prior to skills training, 0% of medical students reported feeling comfortable holding an endoscope or ear instruments. For students, overall mean completion times decreased significantly for each exercise by the conclusion of the training experience: placing beads on wires improved from 152 to 44 seconds ( $p < 0.001$ ), placing simulated prostheses from 264 to 93 seconds ( $p < 0.001$ ), and navigating a pattern from 193 to 66 seconds ( $p = 0.002$ )... "80% of students felt comfortable holding the endoscope and using otologic instruments, and 100% were satisfied with the experience."<sup>1</sup>

### Otology & Neurology:

"This low-cost modular task trainer may help fill a void in otologic training by allowing efficient, deliberate practice of validated exercises designed to improve fine motor control with EES instrumentation... all participants (100%) were satisfied with the experience."<sup>2</sup>