A Novel Adenoidectomy Training System
Nicole Molin, M.D.1, Nigel Wang, B.S.2; Glenn Isaacson, M.D., FAAP3

Methods and Materials
This training suite includes 3 stations each targeting different skills:
Station 1: A mannequin head with exposed nasopharynx. The student learns to coordinate a headlight and mirror by touching a series of targets with a curved probe.
Station 2: Participants electrodessicate (or microdebride) an anchored piece of veal thymus under direct vision to practice tissue ablation
Station 3: The participants combine skills learned in prior station to ablate thymus in a simulated nasopharynx-30mm rectangular aluminum tube constrained within a McIver retractor, using a headlight, mirror and suction electrosurgical electrode (or microdebrider).

To evaluate the training system’s efficacy, we assessed the performance of 10 surgically naïve medical student volunteers before and after 15 minutes of practice. Their performance was assessed using a modified version of a validated rating scale used for adenoidectomy.

Results
There was significant improvement in adenoidectomy skill scores after using the simulator.

Discussion
Development of basic skills in the simulation laboratory can accelerate learning and decrease the risk of complications during live patient training

Practice with the simulator significantly improves adenoidectomy skill scores

Conclusions
This novel adenoidectomy training system is inexpensive and easy to build. Practice with the model resulted in statistically significant improvement in adenoidectomy skill scores for inexperienced student surgeons.

References

Website for more information: https://nikimolin1.wixsite.com/adenoidsimulator