All change...transcanal endoscopic ear surgery and house dust mite immunotherapy for allergic rhinitis

Endoscopic ear surgery is increasingly becoming commonplace in otological practice. Advantages include the panoramic views obtained with the use of the otoendoscope outside of the microscope’s line of sight and higher magnification. One of the drawbacks is only having a single hand available for dissection. In addition, endoscopic ear surgery limits the ability to use standard drills because of the risk of damage to the endoscope and the limited workspace in the external auditory canal.

In this month’s issue of The Journal of Laryngology & Otology, Gardner et al. describe the feasibility and safety of using an ultrasonic bone aspirator in transcanal endoscopic ear surgery. Although the study was only performed on cadaveric temporal bones, it is a landmark study in that it illustrates the potential for powered instrumentation in endoscopic ear surgery, much like how functional endoscopic sinus surgery powered instrumentation in endoscopic ear surgery, a landmark study in that it illustrates the potential for only performed on cadaveric temporal bones, it is a tool to use standard drills because of the risk of damage to the endoscope and the limited workspace in the external auditory canal.

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The efficacy, tolerability and safety of subcutaneous and sublingual immunotherapy for allergic rhinitis is hotly debated, and is the subject of the recently published European Academy of Allergy and Clinical Immunology guidelines on allergen immunotherapy. An article by Sahin et al. in this month’s issue investigated the long-term effects of subcutaneous immunotherapy for house dust mite induced allergic rhinitis, based on a 10-year follow up. The authors conclude that subcutaneous immunotherapy is effective for house dust mite induced allergy, even 10 years after treatment. This study follows previous research which demonstrated that sublingual immunotherapy with house dust mite extracts is also efficacious for patients with house dust mite allergic rhinitis.

Finally, an article by Luu et al. in this month’s issue continues the theme of surgical simulation, and evaluates a low-fidelity ear surgery simulator for developing otological microsurgical skills in low-resource settings. Simulation has become increasingly popular as a method of training surgeons in low-resource settings, with no risk to patient safety. Such a tool may be highly valuable in helping to train future surgeons to manage middle-ear disease.

References