

Revolutionary surgical technique for perforations of the eardrum

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A revolutionary surgical technique for treating perforations of the tympanic membrane (eardrum) in children and adults has been developed at the Sainte-Justine University Hospital Centre, an affiliate of the Université de Montreal, by Dr. Issam Saliba. The new technique, which is as effective as traditional surgery and far less expensive, can be performed in 20 minutes at an outpatient clinic during a routine visit to an ENT specialist. The result is a therapeutic treatment that will be much easier for patients and parents, making surgery more readily available and substantially reducing clogged waiting lists.

"In the past five years, I've operated on 132 young patients in the outpatient clinic at the Sainte-Justine UHC using this technique, as well as on 286 adults at the University of Montreal Hospital Centre (CHUM) outpatient clinic," says Dr. Saliba. "Regardless of the size of the perforation, the results are as good as those obtained using traditional techniques, with the incomparable advantage that patients don't have to lose an entire working day, or 10 days or more off school in the case of children."

The technique, which Dr. Saliba has designated "HAFGM" (Hyaluronic Acid Fat Graft Myringoplasty), requires only basic materials: a scalpel, forceps, a probe, a small container of hyaluronic acid, a small amount of fat taken from behind the ear and a local anesthetic. The operation, which is performed through the ear canal, allows the body by itself to rebuild the entire tympanic membrane after about two months on average, allowing patients to recover their hearing completely and



preventing recurring cases of ear infection (otitis). Because it requires no general anesthetic, operating theatre or hospitalization, the technique makes surgery much more readily available, particularly outside large hospital centres, and at considerably lower cost.

"With the traditional techniques, you have to be on the waiting list for up to a year and a half in order to be operated on. Myringoplasty (reconstruction of the eardrum) using the HAFGM technique reduces waiting times, cost of the procedure and time lost by parents and children. What's more, it will help clear the backlogs on waiting lists," Dr. Saliba says.

Perforations of the eardrum

Myringoplasty is surgical procedures to repair the tympanic membrane or eardrum when it has been perforated or punctured as the result of infection, trauma or dislodgement of a myringotomy tube (also known as a pressure equalization tube). Surgical repair of the perforation will allow the patient to recover his or her hearing and prevent repeated ear infections, particularly after swimming or shower. Traditionally, these procedures are performed using what are known as lateral and medial techniques, which require hospitalization for at least one day, and 10 to 15 days off work. Every year in Quebec, some 750 myringoplasties are performed on adult or child patients.

Details of the study

This world premiere of a new form of <u>eardrum</u> surgery is based on results of a four-year prospective cohort study of 208 children and adolescents, 73 of whom were treated using the new HAFGM technique. This study was published on December 16, 2011 in the scientific journal *Archives of Otolaryngology – Head and Neck Surgery* by Dr. Issam



Saliba, otolaryngologist (ear, nose and throat or ENT specialist), surgeon and researcher at the Sainte-Justine University Hospital Centre affiliated with the Université de Montréal, where he is also professor of otology and neuro-otology. Dr. Saliba is also a surgeon and researcher at the CHUM, where he conducted a similar study, applying the same HAFGM technique to cohorts of adult patients between 2007 and 2010, with publication in the August 20, 2008 issue of the scientific journal *Clinical Otolaryngology* and subsequently in the February 12, 2011 issue of *The Laryngoscope*. The University of Montreal and Sainte-Justine University Hospital Centre are known officially as Université de Montréal and Centre hospitalier universitaire Sainte-Justine, respectively.

Provided by University of Montreal

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