

عنوان مقاله:

Long Term Versus Short Term Hearing Results in Endoscopic Sandwich Myringoplasty

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خلاصه مقاله:

Introduction: The use of the endoscope in otological surgeries has both diagnostic and therapeutic values. It provides an excellent view in difficult nooks and corners. The use of endoscopic sandwich myringoplasty using cartilage and perichondrium has its benefit in hearing outcome and graft uptake in long-term follow-up. The main objective was to compare the long-term with short-term hearing outcomes in those who have undergone endoscopic sandwich myringoplasty with Dhulikhel hospital (D-HOS) technique. **Materials and Methods:** Forty-two patients who underwent endoscopic sandwich myringoplasty with D-HOS technique using tragal cartilage perichondrium were enrolled in the study. The hearing outcome was analyzed by comparing the pre-operative findings with post-operative findings and amongst post-operative patients, long-term with short-term air bone gap (ABG) and ABG closure in speech frequencies (0.5kHz, 1kHz, 2kHz, 4kHz) were compared. **Results:** Amongst forty-two patients, 40 (95.2%) had graft uptake in both short-term (6.08 months) and in long-term (20 months) follow-up. The mean pre-operative ABG was 28.1±9.3dB whereas the mean short-term post-operative ABG was 14.5±7.2dB, it showed statistical significance (P=0.001). Likewise, while comparing pre-operative with long-term post-operative ABG (13.4±4.8 dB), it showed statistical significance of P=0.000. While comparing short-term with long-term post-operative ABG, it did not show any statistical significance (P=0.065). The mean closure in ABG in both short-term and long-term hearing assessment was

not statistically significant ($P=0.077$). Conclusion: Endoscopic sandwich myringoplasty with D-HOS technique is a .reliable procedure with good hearing outcome and graft uptake in both short and long-term follow-up

کلمات کلیدی:

Air bone gap, Endoscopy, Myringoplasty, Perichondrium, Tragal cartilage graft

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