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Comparison of hydroxyapatite PORP efficacy in ossicular chain reconstruction with autograft incus

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Purpose: Ossicular chain reconstruction is an important intervention in chronic otitis media, synthetic prostheses or autograft / homograft ossicles are used in these procedures. In this descriptive study we compared the extrusion of Hydroxyapatite PORP with that of autograft incus and Hearing level after surgery in 1993 – 2000 in Hospital affiliated Isfahan Medical School.

Material and Methods: From total of 39 patients reconstruction were made by autograft Incus on stapes capitulum and hydroxyapatite PORP, in 27 (69.2 %) patients by autograft incus (group 1) and in 12 (30.8%) patients by hydroxyapatite PORP (group 2).

Results: There was not prostheses extrusion in group 1 and there was 1(8.3%) patient prostheses extrusion in group 2. In the group 1 mean of preoperative air-bone gap was 41 db and postoperative air-bone gap was 21.1 db.

In the group 2 mean of postoperative air–bone gap was 42 db and postoperative air-bone gap was 20.8 db.

Conclusion: Autograft incus provides acceptable hearing and low risk extrusion in ossicular chain reconstruction.