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**Relative rate of otosclerosis among first and second degree relatives of otosclerotic patients referred to otolaryngology department of Isfahan medical university – Iran**  
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Objective: To determine incidence of otosclerosis(OS) among 1st and 2nd degree relatives of surgically proved otosclerotic patients .

Methods: A cross sectional study among 43 surgically proved otosclerotic patients was performed to determine positive family history of OS, and physical exam, tuning fork tests, and audiometry were performed in suspicious members. We also reviewed 85 medical sheaths of otosclerotic patients admitted between 1374–1382 in our department, for family history of OS.

Results: Among 15(of 43) otosclerotic patients with positive family history (34.88%) , 14 individuals of their first and second degree relatives had clinical and audiometric otosclerosis. Among 85 medical record sheaths of otosclerotic patients, 12 patients (27.9 %) had positive family history for OS.

Conclusions: The incidence of clinical and audiometric otosclerosis among first and second degree relatives of our otosclerotic patients is nearly similar to rate of positive family history of our patients. This incidence is relatively lower than other populations studied in other countries. Key words: Otosclerosis – family history – first and second degree relatives – hearing loss.