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Imaging findings in Otosclerosis, a review study

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Title: CT findings in Otosclerosis, a review study

Purpose: To examine the CT findings and classifications in patients with otosclerosis.

Material and methods: We reviewed all consecutive patients with the presumption diagnosis of otosclerosis between 01.01.1995 and 28.02.2006 in the data base of the department of otorhinolaryngology.

Results: 291 patients were listed in the data base. In our institut 36 of 291 patients underwent CT examinations. In 11 of 291 patients we found the characteristic findings of otosclerosis. One male patient had findings of osteogenesis imperfecta. The ratio male to female was 10/1. In 9 of 10 the otosclerosis was bilateral, in 1 of 10 unilateral. In 6 of 10 patients the otosclerosis was retrofenestral, in 4 of 10 patients the otosclerosis was fenestral. 2 out of 10 patients had an unilateral implant.

Conclusion: Otosclerosis is a rare disease. In our study the typical findings of otosclerosis with otospongiotic and otosclerotic changes could nicely be demonstrated. Bilateral otosclerosis is present in about 85% of patients, which is similar to our study. There is normally a female predominance of 2/1, which could not be confirmed in our small group. In our study the retrofenestral type was found in 6 out of 10 patients and the fenestral type was present in 4 out of 10 subjects, contrary to the literature where the fenestral type makes up to 80%.