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## Title:

### **Outcomes of Vestibular Schwannoma undergoing operation or radiosurgery - a single center experience**

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## Abstract:

### **Background**

Different modalities have been used for treating vestibular schwannoma. To evaluate the treatment modalities and their respective outcome and complications of a series of patients with acoustic neuroma

### **Materials and Methods**

A retrospective single-center study of 80 patients from 2007 to 2014 with acoustic neuroma were carried out. Patients with neurofibromatosis II and those with incomplete information were excluded. Their presenting symptoms, tumour size at diagnosis, cranial nerve deficit before and after treatment, the treatment modality, the type of surgical approach and surgical complications were studied.

### **Results**

80 patients were reviewed. Demographics of the series of patients were studied. The most common presenting symptoms were hearing loss and tinnitus. The youngest at diagnosis was 19, whereas oldest 74. 77.5 % of all cases had undergone operation. The remaining underwent stereotactic radiosurgery. There was no statistical significant in rate of recurrence between SRS and operative treatment.

Among the patients undergoing operative treatment, far lateral approach was carried out in 3% of cases, retromastoid approach 74.6% and translabyrinthine approach 22.2%. The results of different approaches were analysed. The rate of recurrence, completeness of resection and functional outcome of facial nerve were analyzed.