Cochlear implantation as a method of rehabilitation of tinnitus
Levina E., Levin S., Kuzovkov V., Voronov V., Astashenko S.
Saint-Petersburg Research Institute of Ear, Throat, Nose and Speech, Russia, Saint-Petersburg,

**Introduction**

Tinnitus remains a problem for many people. Of these, 1-3% severe tinnitus
In 85% of cases, tinnitus is accompanied by hearing loss. Cochlear implantation is the most effective method of rehabilitation of deafness in the modern world
Aim: To evaluate tinnitus patients after cochlear implantation, depending on age, duration and etiology of deafness.

**Methods**

We examined 384 patients aged 14-72 (years) (237 women and 145 men) with profound sensorineural hearing loss and tinnitus complaints. Cochlear implantation was performed in all cases. Unilateral implantation was performed in 376 patients, bilateral in 8 patients. The severity in patients experiencing ears was assessed using a visual analogue scale before implantation, the first fitting sound processor, and 6 months after the initial fitting. We analyzed the dependence of severity of tinnitus patients' age, duration and etiology atsientov depending cochlear deafness prior to implantation.

**Results**

At 6 months after the first fitting 2% of tinnitus disappeared, 81% of patients with tinnitus patients has decreased, but not disappear, and 16% of tinnitus patients remained unchanged, and 1% of patients tinnitus has increased. Tinnitus significantly decreased in the majority of patients of all ages, etiology and duration of deafness before the cochlear implantation.

**Dynamics of tinnitus during 6 months**

**Conclusion**

Conclusions: Thus, Cochlear implantation reduces the severity of tinnitus in patients with profound sensorineural hearing loss. In addition to the effect of habituation, reducing tinnitus may be due to acoustic masking and direct stimulation of the auditory nerve. This observation was confirmed by the cochlear implant as an effective treatment for patients with single-sided deafness and severe tinnitus.

**Reference**


**Contacts**

Saint-Petersburg Research Institute of Ear, Throat, Nose and Speech Bronnitskaya 9, Saint-Petersburg, Russia
Email: xramoval@gmail.com, web: http://lornii.ru