

## **The Vibrant Soundbridge: Amplification of the high frequencies and its effect on tinnitus**

E. Biesinger, Clinic of Traunstein, Department of Otolaryngology, Traunstein, Germany

Tinnitus is a frequent disorder, which is often associated with hearing loss and which is difficult to treat. There is increasing evidence that enhancement of auditory input by the use of hearing aids can reduce tinnitus complaints. However due to technical reasons, sound amplification by hearing aids is limited in the high frequency range. Implantable devices such as the vibrant sound bridge allow amplification also for the high frequency range and are therefore increasingly used for the treatment of hearing loss. Within the proposed study we intend to investigate prospectively the effect of implantable hearing aids on tinnitus in patients with moderate to severe high frequency hearing loss. This study aims to answer the question whether implantable hearing aids may offer a new option for the treatment of tinnitus in patients suffering from predominantly high-frequency hearing loss.

### **Eberhard Hermann Biesinger MD**

Clinic of Traunstein  
Department of Otolaryngology  
Cuno-Niggel-Strasse 3  
83278 Traunstein, Germany  
E-Mail [dr.eberhard.biesinger@t-online.de](mailto:dr.eberhard.biesinger@t-online.de)  
[www.klinikum-traunstein.de](http://www.klinikum-traunstein.de)