**Improvement of hearing after Sophono Alpha 2 MPO bone conductive hearing device implantation**

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Objective: Sophono is a trancutanous bone conductive hearing device used for hearing recovery in patients with conductive hearing loss, mixed hearing loss, and single-sided deafness (SSD).

Methods: We evaluated improvement of hearing after Sophono Alpha 2 MPO bone conductive hearing device implantation in 21 patients. The majority of patients were patients with SSD, followed by patients with chronic otitis media (after cholesteatoma surgery) and congenital external ear canal atresia. We measured pure tone and free field threshold, word recognition score, and quality of life before and after the implantation.

Results (Preliminary): We noticed improvement in hearing threshold, especially in patients with SSD and patients with external ear canal atresia. They could localize the sound better and had better space orientation. Patients with chronic otitis media had also some benefit from the device.

Conclusions: The Sophono Alpha 2 MPO bone conductive hearing device helped to restore hearing and improved sound localization and space orientation, especially in SSD patients and patients with external ear canal atresia. Better hearing also improved the quality of life. The small size and abutment-free system make it also more appealing for the patient.