

# ABSTRACTS

KURZ IMPLANTS, PRECISION INSTRUMENTS, VENTILATION TUBES

---

MIDDLE EAR SURGERY

## ANGULAR CLIP PROSTHESIS

---

**Titanium Angular Clip: A New Prosthesis for Reconstruction of the Long Process of the Incus**

**Hüttenbrink K.-B., Luers J.C., Beutner D.**

**Published:** Otolology & Neurotology 30(8):1186-1190, December 2009 DOI: 10.1097/MAO.0b013e3181b287f2

**Objective:** To describe a new titanium angular clip prosthesis for bridging the incudostapedial joint in the event of an isolated lesion of the distal end of the long process of the incus.

**Study Design:** Clinical retrospective study.

**Methods:** We retrospectively reviewed the course of 22 patients with iso-lated defects of the long process of the incus where the ossicular chain was reconstructed by a titanium angular clip prosthesis.

**Results:** The placement of the prosthesis was successful in all patients, and no complication was encountered during its installation. At the first follow-up visit after 3 weeks, the mean air-bone gap (ABG) was reduced by around 10 dB from a mean of 26 dB preoperatively to 16 dB postoperatively. The mean postoperative hearing result of patients with a Type A tympanogram (7-dB ABG) was consistently better than for patients with a Type B or a Type C tympanogram (19-dB ABG in both).

**Conclusion:** Despite the limited number of patients, this preliminary study demonstrates the effectiveness of the angular clip prosthesis in reconstructing the ossicular chain. In cases of a normal aeration of the tympanic cavity, this reliable reconstruction of the biological chain offers a near-to-normal hearing restoration.