

# **Combined Baha® and Mastoidectomy: DMC experience**

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#### Abstract



Introduction: The Baha<sup>®</sup> Attract System, emerged with clear indication: Conductive Hearing Loss, Mixed Hearing Loss, and Single Sided Sensorineural Deafness (SSD)

**Design and Objective**: Retrospective stud, to demonstrate our experience in implanting patients with the Baha® Attract System combined with mastoidectomy in the same setting, highlighting the indications, precautions, and a new surgical approach

Material and methods: 8 cases (F:M 4:4), Patient with residual cholesteatoma age 16-50 years

Etiology/Indication: Recurrent cholesteatoma with (profound SNHL, sickle cell disease, revision canal wall down (CWD), Case revision CWD, failed ossiculoplasty, Low lateral dura).

Material and methods: All cases started with revision mastoid surgery followed by closure of the wound then extended S shape incision; Mastoid surgery was followed by the Baha® Attract surgery.

**Results**: Follow up: Minimum of 12 months, all patient ends with dry cavity, 1 case with mild discharge, No post-op complications (such as wound infection, hematoma, or wound dehiscence) at the incision of the mastoid cavity or the Baha incision site.

**Discussion**: The real challenge in our approach is how to manage the interaction between the infected cavity and the Baha Attract space which is sterile and must be performed under high sterilization procedure. The only documented study in the literature is by Ajith George et al (1) where they did a single-stage fitting of Baha implant and abutment with mastoid obliteration. In our study, the mastoid surgery preceded the Baha Attract surgery.

**Conclusion**: We strongly recommend combined approach with narrow indication in case with high risk anesthesia such as sickle cell disease and patient with uncontrolled DM. To draw a more solid conclusion, a larger number of patients are needed.



#### **Biography**

Yasser Alnufaily has completed his MBBS from King Saud University Riyadh Saudi Arabia 1997, he has completed his ENT and head and neck fellowship 2004 in SA, fellowship of advanced Otology Bern university hospital in Switzerland 2011, and he is the head of the cochlear implant and ossiointegration center in Dammam medical complex Saudi Arabia.

### Publications

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- 3. Iguchi H, Nakai Y, Yamane H, Goto K, Wakasa K (1997) Smooth muscle tumor of the external auditory canal. Otolaryngol Head Neck Surg 116(2): 231-233.
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