INDICATIONS FOR BAHAs

Bone vibrating device
- DIVINO, new BP 100
- INTENSO
- (CORDELLE)

Unilateral or bilateral
- Conductive deafness
- Combined deafness

Unilateral
- SSD Single sided total deafness
METHODS: RETROSPECTIVE STUDY 2004 - 2009

56 Patients received extensive counseling covering all aspects of BAHA.

If interested: test device is borrowed for listening in individual hearing situations.

If not interested: counseling after 12 months or later.

2004 – 2010  56 PATIENTS

- children 13
- adolescents 10
- Adults 33

- Children, students 23
- Adults at work 23
  - technician
  - lawyer
  - hairdresser
  - waitres
  - housekeeper
  - Shiatsu therapist
  - eventmanager
  - mechanic
  - housewife
  - economist
  - teacher
- Retired 10
56 PATIENTS

- Cholesteatoma 16
- Atresia 11

- Schwannoma 3
- SSD 12
- Other 11

CAUSE OF HEARING LOSS

- Cholesteatoma
- Atresia
- SSD
- Schwannoma
- Other

BILATERAL CONDUCTIVE HEARING LOSS

- Bilateral atresia 2
- Bilateral radical cavity, atelectasis 3
- Atresia and congenital cholesteatoma 1
ATRESIA OF THE EAR CANAL

• Atresia of the ear canal  10
  - bilateral:  2

Early counseling of parents

TYPICAL INDICATION:
• BAHA
• in babies and toddlers: headband
• Adolescents: Pinna Epithesis

PURE TONE THRESHOLDS

23 ears PTTH

0
20
40
60
80
100
120

0.5 1 2 3 4 kHz
BONE CONDUCTION THRESHOLDS

22 ears, BCTH

BAHA DECISIONS: BY AGE GROUP

- 32 ears received a BAHA
- Young subjects are more enthusiastic
BAHA DECISIONS: BY DIAGNOSIS

- 2 subjects are testing BAHA, they have not made a decision

SSD: SINGLE SIDED DEAFNESS

SENSORI NEURAL DEAFNESS: SSD

- Congenital deafness 2
- Sudden hearing loss 2
- Vestibular schwannoma 2
- Menière’s disease 1
- Progressive hearing loss 3
- Fracture of the temporal bone 1
- Acute toxic otitis media 1
- Otosclerosis, acute deafness 1
- Unknown 1

→ BAHA as a bone conducting CROS
REASONS FOR REJECTION

• “hollow” hearing
• concerns about wound care
  – Mother didn’t tolerate to look at the implant, denied to clean
• bulging hearing aid
  – Problems in wearing a helmet
• cosmetically unacceptable
  – Particularly in male patients
• infection and loss of implant
  – Emotionally: rather unpleasant situation
• not enough amplification
  – persistent asymmetry in unilateral mixed hearing loss

COUNSELING TO RECONSIDER

• Trial with the test hearing aid
  – individual day to day hearing situations
  – let compare DIVINO to INTENSO
• Arrange contacts to BAHA users
  – similar age and profession
• Counseling about the implant
  – educate about cleaning procedures
  – discuss possibility to remove
• Allow enough time to reconsider
• Offer a recall after one year
INDIVIDUALS WHO RECONSIDERED

RESPECT INDIVIDUALS OWN RESPONSIBILITY!

- 3 children / adolescents
  - 1 bilateral atresia
  - 2 unilat atresia
    - 1 with contralat cholesteatoma
- 1 adult professional musician

- After a long time of reconsideration
- Convincing trials in hearing situations
- Decision of the adolescents with parents
- Very good aided threshold
- High benefit in speech discrimination
- No problems in the care of the implant

21 students

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DECISION @ 2nd THOUGHT

- 12 y old girl
- firmly denied BAHA for several years

- counseling the girl and her mother
- met an adult subject with Goldenhaar’s
- tested the INTENSO
- very satisfied
- was recently implanted

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MUCH DELAYED DECISION

45 y old lady
• Goldenhaar’s syndrom
• Multiple surgeries on her left ear canal
• Epithesis of the left ear several years ago
• Counseling about BAHA
• Trial, phone call with her anaplastic ear
• decision taken
• Received a BAHA
• Excellent hearing

LOOK OUT TO THE UPCOMING 2 YEARS

CLINICAL PROJECT
• identify children, adolescents and adults
  – bilateral conductive hearing loss
  – late awareness in atresia
• check hearing, appropriate audiology
• provide updated information
• new technical equipment
• hearing trial with test device
• demonstrate audiological gain
• recall deniying patients
Thank you for listening

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