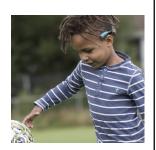


Agenda



- Conductive and mixed hearing loss in children
- Treating conductive and mixed hearing loss in children with Baha® Technology
- Exploring Baha solutions for children



Conductive and Mixed Hearing Loss (CMHL) in Children



- Prevalence of conductive hearing loss in children may be up to 3.5% of the general population¹
- 29% of children with Down Syndrome have permanent mixed or conductive hearing loss; another 32% have fluctuating losses²
- 25% of children with cleft palate have conductive hearing loss of 25 dBHL or more³



1 - Folder RF. Michaud D. McNamer J. Fizpatrick E. Flamage Albrin P. Bleauraged Y. (2017) Prevailence of healing loss among a representative sample of Caredad an children and adolescent. 33 14 if yeared age. Ear 8 Navign. 30(17):26.

Description of the Caredad and Cared

Congenital Aural Atresia & Microtia



- Prevalence of Microtia is 1.76 per 10,000 live births in North America¹
- higher incidences in Hispanic populations (2.89) and Asian or Pacific Islander populations (2.08)¹
- Degree of hearing restoration by surgical correction is dependent on severity²
- Majority of pediatric patients who have reconstruction will still require some form of amplification after surgery³
- About 75% of patients who do not receive good hearing benefit from surgery also do not benefit from a revision²



1 - Luquetti DV, Leoncini E, Mastrolacovo P. (2011) Microtia-Anotia: A global review of prevalence rates. Birth Defects Res A Clin Mol Teratol. 91(9):813-822

Intermittent/Fluctuating Hearing Loss Permanent Hearing Loss Permanent Hearing Loss

Why Consider Baha® Technology?



- √ Nothing worn in the ear canal, which is helpful in cases where ear drainage is present¹
- Baha does not need to be re-adjusted if the air conduction thresholds fluctuate because gain is only required for the bone conduction thresholds
- ✓ Pre-operative testing can be used to predict postoperative benefit²
- √ Use of Baha is associated with high user satisfaction and good long-term benefit^{3,4}

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1 - Bouhaled S, Acousé P, Sallas I. (2012) Congenital sural afresia: bore-archered heading sid vs. external susdancy careal reconstruction. Int J Pedial Clothinology regol. 70(2):2727-7.

- Monriel S. (Figlio C, Albur P, Rissin) M, Lazarrino A, Bachasa M, (2015) Individualised headband simulation test for predicting outcome after precidence bene conduction implentation. Acta

Olizhinology gold 83. 20(4):255-64

Baha Solutions vs Hearing Aids Comparative Benefits of Baha vs Hearing Aids for Mixed Hearing Loss Mixed Hearing Loss The greater the air-bone gap, the more a Baha system will outperform hearing aids Hearing aid prescriptions for conductive and mixed hearing loss require more gain and receive less clinical research than for sensorineural hearing loss³ Hearing aid fitting can be difficult if there is drainage from the ear, ear pain or a mastoid cavity present after mastoidectomy⁴

Conductive & Mixed Hearing Loss Candidacy is based on bone conduction thresholds Bone Conduction PTA equal to or better than 65 dB at 0.5, 1, 2 & 3 kHz Bilateral fitting requires symmetric bone conduction thresholds Less than 10 dB difference on average (0.5, 1, 2 & 3) or less than 15 dB difference at individual frequencies



Baha Systems for Children: Surgical The Baha Attract provides clinically proven performance with nothing through the skin¹ The Baha Connect's direct connection provides the maximum possible gain² The Baha Connect's direct connection provides the maximum possible gain² Two systems with one strong foundation³ Baha Attract Baha Connect 1 - Begg R, Van Nasel A, Lutz M, Gigcooka M, Wigwas B, Wider P, Simol H, Righer M, Cower R, Clinical preformance of a new regards tone conduction heaving impact of connection and connection of the connection heaving impact of connection and connection of the connection heaving impact of connection and connection of the connection heaving impact of connection and connection of the connection of the connection heaving impact of connection and connection of the connection of the



Baha 5 Sound Processors for Children Made for iPhone compatibility to allow connection to iOS devices Baha 5 Smart App for iOS and Android™ allows parents to control and monitor their child's device Full FM compatibility with the amazing Mini Microphone 2+ Various retention options and colors allow recipients to personalize their device for their needs Datalogging in all processors

Support and Resources



- Request free information packs for yourself or your candidates at
- our website Candidates may contact our innovative Concierge group for

answers to their questions and

to connect with a local volunteer

Parents and educators can find resources for rehabilitation online at our Communication Corner

www.cochlear.com/us

1-877-897-4474 or concierge@cochlear.com

www.cochlear.com/us/ Communication-Corner

Summary

if desired



- ✓ Mixed and conductive hearing loss in childhood can be common in patients with Down Syndrome, cleft palate, chronic otitis media and other congenital abnormalities
- Baha technology provides several options to treat both permanent and fluctuating hearing loss in children
- ✓ Baha 5 Sound Processors offer True Wireless and Made for iPhone technology to help children connect to the world around.
- Cochlear offers unparalleled support for candidates and

Hear now. And always