



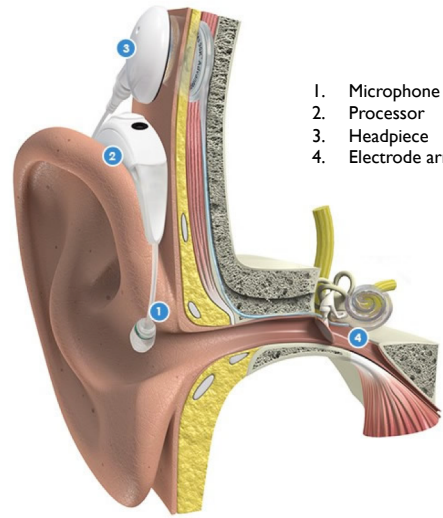
COMPONENTS OF A COCHLEAR IMPLANT



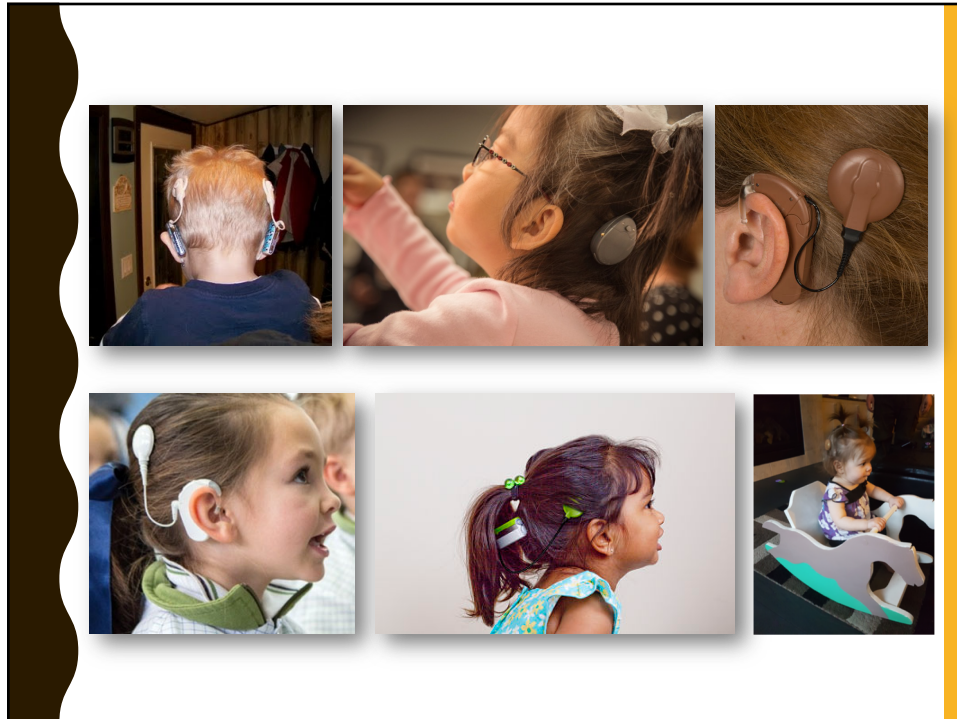
External processor



Internal device

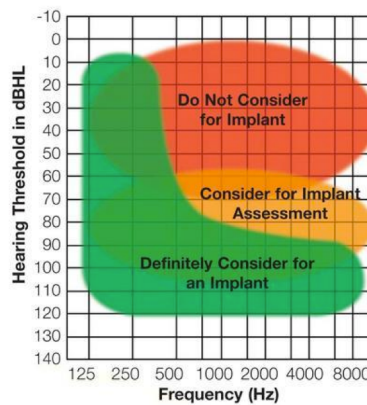


1. Microphone
2. Processor
3. Headpiece
4. Electrode array



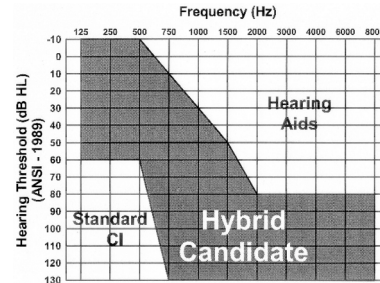
CANDIDACY CRITERIA

- Children as young as age 1
- Severe to profound hearing loss in both ears
- Limited benefit from amplification as measured by speech perception scores (when possible) or questionnaires + objective measures (very young children)
- Slight differences in qualifying criteria across manufacturers



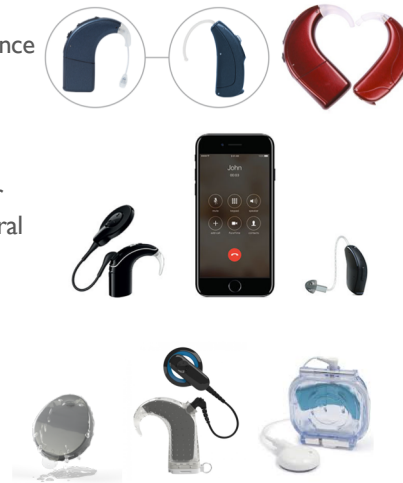
EVOLVING CANDIDACY CRITERIA

- Children younger than age 1
- Individuals might have more residual hearing
 - Not just severe-profound loss, can be as low as moderate loss (with poor word recognition abilities)
 - Hybrid cochlear implants – part HA and part CI
- Individuals with unilateral hearing loss
 - Might even have normal hearing in one ear
- Bilateral cochlear implants
 - Sequential or simultaneous



TRENDS

- CI and HA companies forming an alliance
 - Advanced Bionics and Phonak
 - Cochlear and ReSound
 - Neuro* and Oticon
- Systems that include a HA or receiver for the non-implanted ear (contralateral routing of signal [CROS] devices)
- Wireless accessory choices in patient kits
- Waterproof options



EACH INDIVIDUAL'S PROGRESS IS DIFFERENT

- Some can hear lots of environmental sounds
- Some like that CIs help with lipreading
- Some love that they can listen to music more
- Some can understand speech with people that they know (e.g., family members) without lipreading
- Some can talk on the phone
- Some never benefited from their CI and don't use it



ILLINOIS SCHOOL FOR THE DEAF CI SUPPORT PAGE

[HTTP://ILLINOISDEAF.ORG/OUTREACH/CI.HTML](http://illinoisdeaf.org/outreach/ci.html)

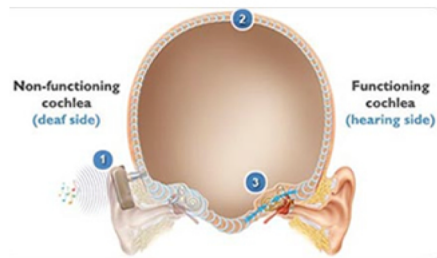
CI manufacturers	Advanced Bionics	Cochlear	Med-El
Website	www.advancedbionics.com	www.cochlear.com	www.medel.com
Phone	(866) 844-8EAB	(800) 523-5718	(888) MED-EL-CI
Customer service	Customer Service	Customer Service	Customer Service
Clinic Dealer	Clinic Dealer	Clinic Dealer	Clinic Dealer
Product info/ troubleshooting/ phone guides/ etc. resources	User Guides/Manuals/ Troubleshooting	User Guides/Manuals	User Guides/Manuals/ Troubleshooting
Calendar of Events	learning.com	learning.com	
School age resources	TOOLS FOR SCHOOLS Assessment Tools Classroom Management	hope Transitioning from Traditional Educator's Guide	BRIDGE Handbook for Educators BRIDGE 2-Grade
Sign up for email list and announcements	BSA News bsa@advancedbionics.com	Professionals Blog	Sign up by sending an email with "subscribe" in the subject line to education@medel.com
Newsletters	Think the Talkin Learn & Grow	HOPES Reading News	Med-El Newsletters (education, school)

Advanced Bionics www.advancedbionics.com	Cochlear Americas www.cochlearamericas.com	Med-El www.medel.com
Naida CI Q70 	Nucleus 6 System 	Rondo
Neptune 	Nucleus 5 System 	Opus 2
Harmony 	Freedom 	Opus 1



WHO CAN USE BAHS?

- Unilateral hearing loss
- Atresia/Microtia
- Cannot wear conventional HAs due to drainage
- Soft band until ~ age 5



WEARING STYLES AND TRANSDUCTION METHODS



Softband



SoundArc (Cochlear)

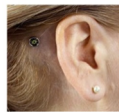


Headband

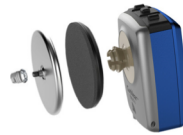


Behind-the-ear

1. Titanium implant 2. Abutment 3. Sound Processor



Via abutment



Via magnet



Via adhesive

EXAMPLES OF WEARING STYLES THROUGH THE AGES



Baha Softband
is an ideal choice for
babies and toddlers



Baha SoundArc
is an effective and stylish
alternative for young children



Baha Attract System
connects the sound
processor via a magnet



Baha Connect System
connects the sound
processor via an abutment

CARE/MAINTENANCE/USE

- Keep hair, hats, etc. from covering the microphone to reduce chance of feedback
- If the child has an abutment:
 - Make sure to clean around the post regularly
 - Contact the physician ASAP if there is swelling, redness, oozing or pain coming from the site
- If using a headband:
 - Make sure to replace regularly to reduce it becoming too loose

**(REMOTE
MICROPHONE)
HEARING
ASSISTIVE
TECHNOLOGY**

FM/DM TRANSMITTERS

WEARING STYLES



RECEIVERS HEARING AIDS

INTEGRATED RECEIVERS



UNIVERSAL RECEIVERS



RECEIVERS COCHLEAR IMPLANTS

- Advanced Bionics
 - Roger 17 (Naida)
- Cochlear
 - Roger 14 (N5, N6)
 - Roger 20 (N7)
- Med-El
 - Roger 21 (Sonnet)



RECEIVERS BAHS AND OTHER OPTIONS

BAHS



STREAMER



NECKLOOP



- Tells you which receiver configuration you can use with your device

The screenshot shows the 'Roger Configurator' web tool. At the top, there is a progress bar with four steps: 'Hearing Instrument', 'Microphone', 'Receiver', and 'Configuration'. The 'Hearing Instrument' step is currently active. Below the progress bar, there is a section titled 'Choose a Hearing Instrument' with a dropdown arrow. To the left of this section, there is a diagram showing a hearing aid icon, a plus sign, a microphone icon, another plus sign, a receiver icon, an equals sign, and a document icon. Below the diagram, there is a paragraph of text: 'Roger works with almost every hearing system on the market. This tool makes it easy to find the equipment you need and creates customized set up instructions for your client.' To the right of the diagram, there are three dropdown menus: 'Select a brand', 'Select a product family', and 'Select a model', each with a green checkmark icon. Below these dropdowns is a 'Get Started' button. At the top right of the configurator, there is a 'Start Over' button.

<https://www.phonakpro.com/us/en/support/product-support/wireless-accessories/roger-configurator.html.html>