Learning Outcomes

- Participants will be able to correctly identify candidates for these technologies using the appropriate FDA indications.
- Participants will be able to explain how to counsel recipients on key features and benefits of the technologies.
- Participants will be able to outline how to implement best practices when fitting diverse patient populations.

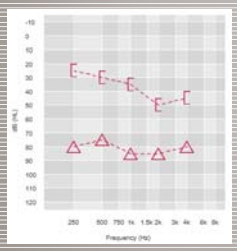
In 2015 we launched the
small and smart
Baha® 5 Sound Processor.

small and smart

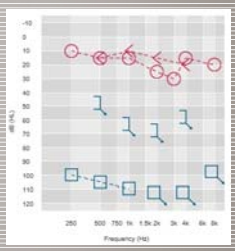
- BCDrive™ Transducer
- Ardium™ Smart Platform

But needs still remain

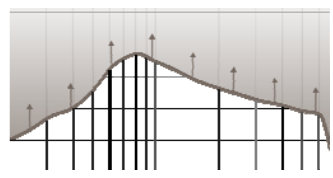
MIXED HL



SSD



More power



Baha® 5 technology for patients with mixed loss, and SSD with higher levels of transcranial attenuation

More power in high frequencies for the Baha Attract System

So we took the small and smart. And made it more powerful.

NEW
Baha® 5 SuperPower

NEW
Baha® 5 Power

Cochlear™ Baha® 5 System

Small. Smart. Powerful.

Baha 5 sound processors share the same unique technology building blocks to deliver a smart and seamless hearing experience to all patients.

- The industry's smallest sound processor.[1]
- The only smart processors with direct-to-device wireless streaming and control.
- Two power sound processors including the industry's most powerful solution.[2]

1. Flynn MC. Smart and Small – innovative technologies behind the Cochlear Baha 5 Sound Processor. Cochlear Bone Anchored Solutions AB; 029781; 2015.
2. Berrisch, A. Review of Sony Insight. Cochlear Bone Anchored Solutions AB; 0771638; 2015.

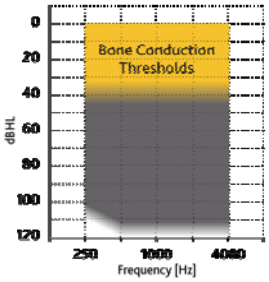
Bluetooth SMART

Made for iPod iPhone iPad

Cochlear™ Baha® 5 System

The widest and most powerful portfolio[1]

Up to **45 dB** SNHL



1. Norman, J. Review of fitting ranges. Cochlear Bone Anchored Solutions AB. D773528. 2015.

Cochlear™ Baha® 5 System

Baha® 5 Sound Processor

The award winning Cochlear Baha 5 Sound Processor is the industry's smallest sound processor, yet delivers the same power output as other devices with fitting ranges up to 45 dB SNHL.

Program/streaming

Identifying candidates

1. **Power users who want access to the latest technology in a head-worn option**

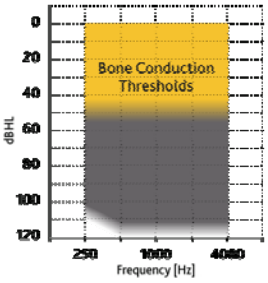
2. **Baha Attract users and candidates with MHL or SSD who need more power**

3. **Children with MHL who need more power and pediatric features**

Cochlear™ Baha® 5 System

The widest and most powerful portfolio[1]

Up to **55 dB** SNHL



1. Norman, J. Review of fitting ranges. Cochlear Bone Anchored Solutions AB. D773528. 2015.

Cochlear™ Baha® 5 System

Baha® 5 Power Sound Processor

The smart Cochlear Baha 5 Power Sound Processor is packed full of features and is ideal for patients who need more power, longer battery life and on-device control.

iQ

Cochlear True Wireless

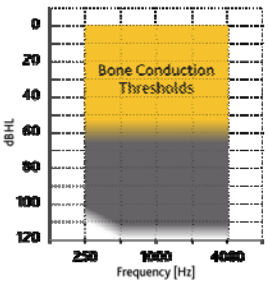
Bluetooth

Made for iPod iPhone iPad

Cochlear™ Baha® 5 System

The widest and most powerful portfolio[1]

Up to **65 dB** SNHL

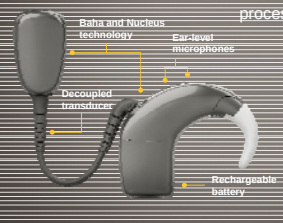


1. Norman, J. Review of fitting ranges. Cochlear Bone Anchored Solutions AB. D773528. 2015.

Cochlear™ Baha® 5 System

Baha® 5 SuperPower Sound Processor

The revolutionary Cochlear Baha 5 SuperPower Sound Processor utilizes Baha and Nucleus® technology to make it the only head-worn sound processor for up to 65 dB SNHL.



SmartSound iQ

Cochlear True Wireless

Bluetooth

Made for iPod iPhone iPad

Delivering power to everyone, EveryWear™

Baha® 5 SuperPower

Three EveryWear™ wearing options help patients get every decibel they need with the flexibility to suit their lifestyle.

Same ear
(BTE & UTE)

Other ear
(BTE & UTE)

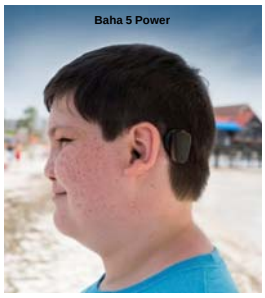
Clip-on

Delivering power to everyone, EveryWear™

Baha® 5 SuperPower

Cochlear™ Baha® Attract System

The most powerful magnetic system[1]



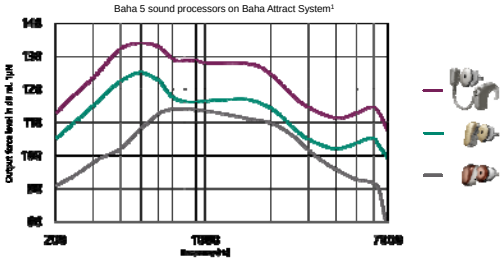
For patients with **MIXED LOSS** & **SSD** with higher levels of transcranial attenuation

1. Norman, J. Review of fitting ranges. Cochlear Bone Anchored Solutions AB, D773528, 2015.

Cochlear™ Baha® Attract System

Baha Attract with more power in the high frequencies

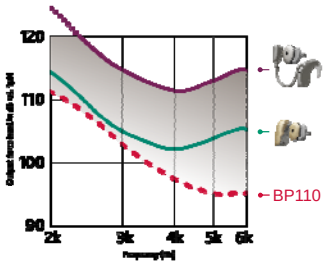
Baha 5 sound processors on Baha Attract System[1]



1. OFL90 measured on Artificial Mastoid IEC 60318-6

Cochlear™ Baha® Attract System

Up to 20 dB more high frequency power[1]



Up to

20 dB

The Baha Attract System delivers more power in the high frequency range with Baha 5 Power and Baha 5 SuperPower compared with the previous generation power device.

1. Baha 5 SuperPower compared with BP110 Power (both on the Baha Attract System) at 6,000 Hz. OFL90 measured on Artificial Mastoid IEC 60318-6

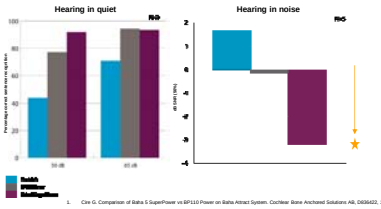
Cochlear™ Baha® Attract System

Baha Attract now with even better hearing performance

Average **28%** improvement at 50 dB

Average **3 dB** improvement in noise

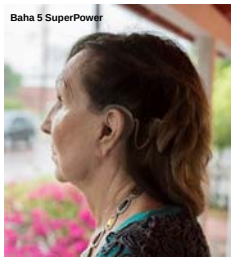
Initial results indicate improved hearing performance in quiet and noise for Baha Attract patients upgrading from the BP110 Power to the Baha 5 SuperPower[1].



1. Cire G. Comparison of Baha 5 SuperPower vs BP110 Power on Baha Attract System. Cochlear Bone Anchored Solutions AB, 0936422, 2016.

Cochlear™ Baha® Connect System

The smartest and most powerful[1] head-worn portfolio



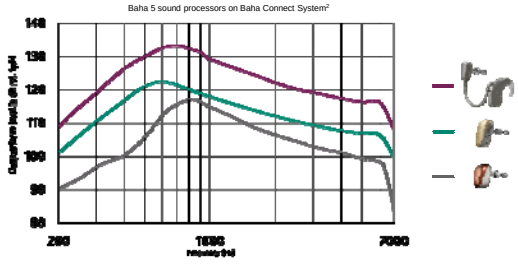
For patients who need **MAXIMUM POWER** through **DIRECT** bone conduction

1. Norman, J. Review of fitting ranges. Cochlear Bone Anchored Solutions AB, D773528, 2015

Cochlear™ Baha® Connect System

The strongest and most complete direct system[1]

Baha 5 sound processors on Baha Connect System[2]



1. Norman, J. Review of fitting ranges. Cochlear Bone Anchored Solutions AB, D773528, 2015.
2. OFL90 measured on skull simulator TU1000

Cochlear™ Baha® 5 System

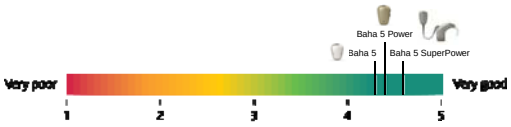
Excellent speech understanding

In listening tests, patients consistently rate speech understanding with the Baha 5 sound processors as good to very good.[1-3]

ON AVERAGE, ALL PROCESSORS RATED

4.3

OR HIGHER



1. Hedin A, Andersson J, Agar T, Hoffmann J, Björk T, Flynn M. Summary of the Cochlear Baha 5 Clinical Development. Cochlear Bone Anchored Solutions AB, D643564, 2016.
2. Hedin A, Andersson J, Agar T, Hoffmann J, Björk T, Ivarsson I. Summary of the Cochlear Baha 5 Power Clinical Development. Cochlear Bone Anchored Solutions AB, D631708, 2016.
3. Hedin A, Andersson J, Agar T, Hoffmann J, Björk T, Ivarsson I. Summary of the Cochlear Baha 5 SuperPower Clinical Development. Cochlear Bone Anchored Solutions AB, D631707, 2016.

Cochlear™ Baha® 5 System

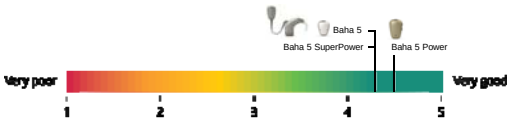
Excellent sound quality

In listening tests, patients consistently rate sound quality of the Baha 5 sound processors as good to very good.[1-3]

ON AVERAGE, ALL PROCESSORS RATED

4.3

OR HIGHER

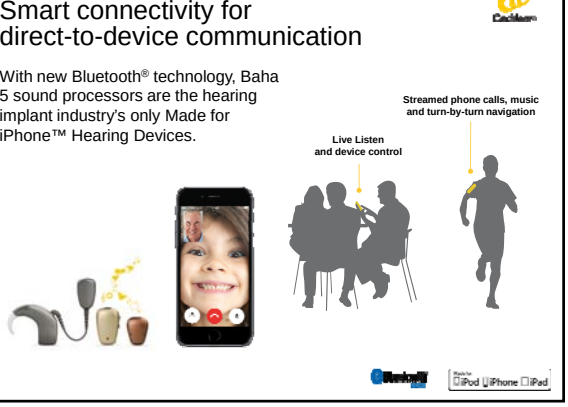


1. Hedin A, Andersson J, Agar T, Hoffmann J, Björk T, Flynn M. Summary of the Cochlear Baha 5 Clinical Development. Cochlear Bone Anchored Solutions AB, D643564, 2016.
2. Hedin A, Andersson J, Agar T, Hoffmann J, Björk T, Ivarsson I. Summary of the Cochlear Baha 5 Power Clinical Development. Cochlear Bone Anchored Solutions AB, D631708, 2016.
3. Hedin A, Andersson J, Agar T, Hoffmann J, Björk T, Ivarsson I. Summary of the Cochlear Baha 5 SuperPower Clinical Development. Cochlear Bone Anchored Solutions AB, D631707, 2016.

Cochlear™ Baha® 5 System

Smart connectivity for direct-to-device communication

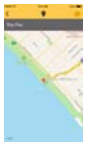
With new Bluetooth® technology, Baha 5 sound processors are the hearing implant industry's only Made for iPhone™ Hearing Devices.



Cochlear™ Baha® 5 System

The first Smart App for bone conduction

Advanced control of sound processor and wireless accessories, personalization and support – directly from iPhone®, iPad®, iPod® touch and **now also Android™ smartphones**.



Available on the App Store | GET IT ON Google Play

Cochlear™ Baha® 5 System

Improving the classroom experience

The new Mini Microphone 2+ is perfect for a noisy classroom. With a large range, it can be placed anywhere to help close the gap between the student and speaker.

- Full day streaming (up to 11 hours)
- Range up to 82 feet*
- Directional mics and Table Mic functionality (omni) when placed horizontally
- Full connectivity to audio sources (Line-in), loop systems (built-in Telecoil), and FM systems (Europlug)

Cochlear™ Wireless Mini Microphone 2+

FM
COMPATIBLE

* Clear line of sight

Cochlear™ Baha® 5 System

One smart solution. The power to choose.

Apps & True Wireless™

Baha 5 sound processors

Baha Fitting Software

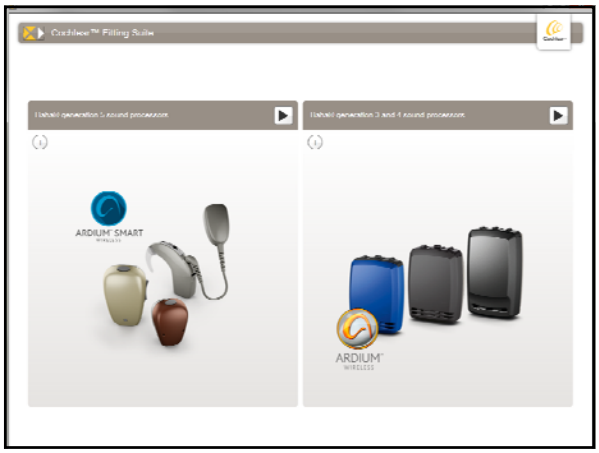
Baha Softband

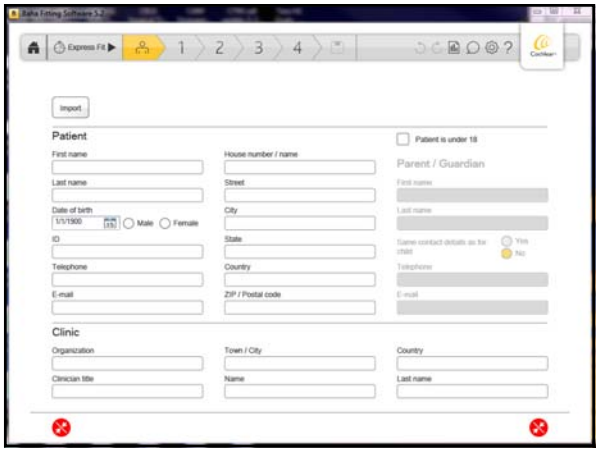
Baha Attract System

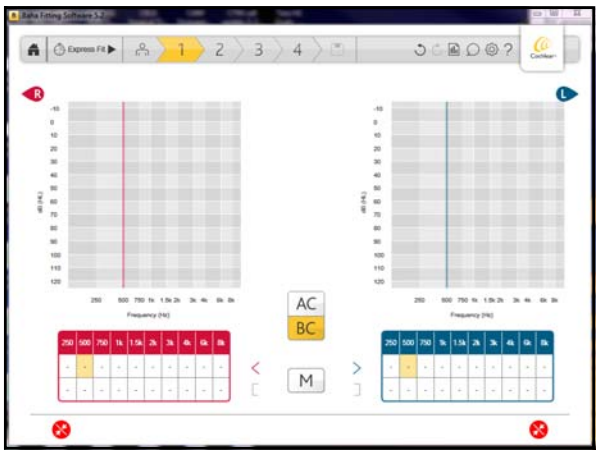
Baha Connect System

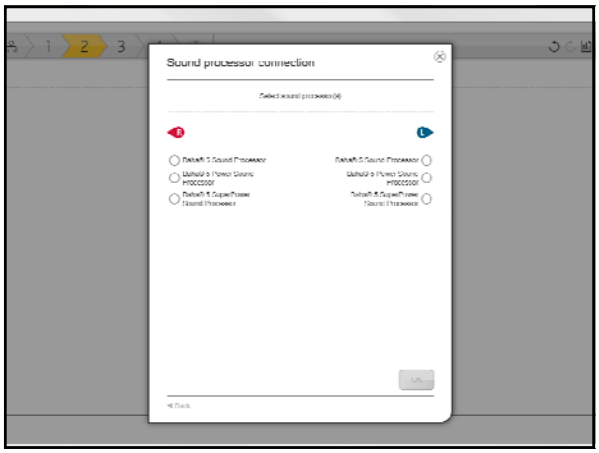
Baha BI300 Implant

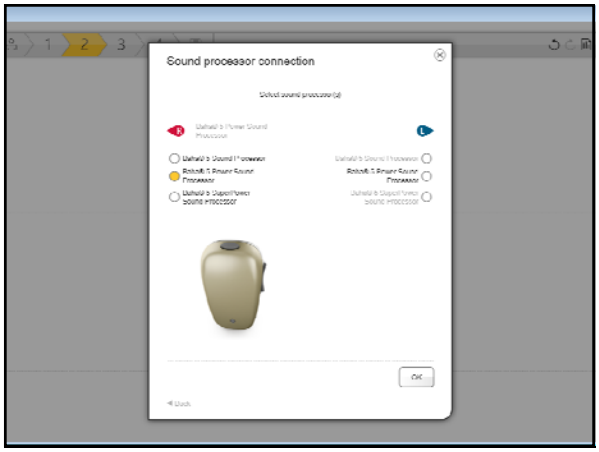
Bluetooth | Made for iPod | iPhone | iPad


ARDIUM SMART
ARDIUM


Express Fit
1
2
3
4
Import
Patient
First name
Last name
Date of birth
Male
Female
ID
Telephone
E-mail
House number / name
Street
City
State
Country
ZIP / Postal code
Patient is under 18
Parent / Guardian
Clinic
Organization
Clinician title
Town / City
Name
Country
Last name


Express Fit
1
2
3
4
R
L
AC
BC
M


Sound processor connection
OK
Back


Sound processor connection
OK
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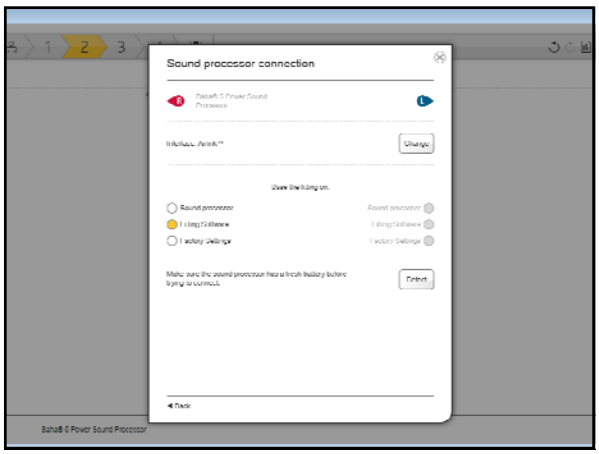
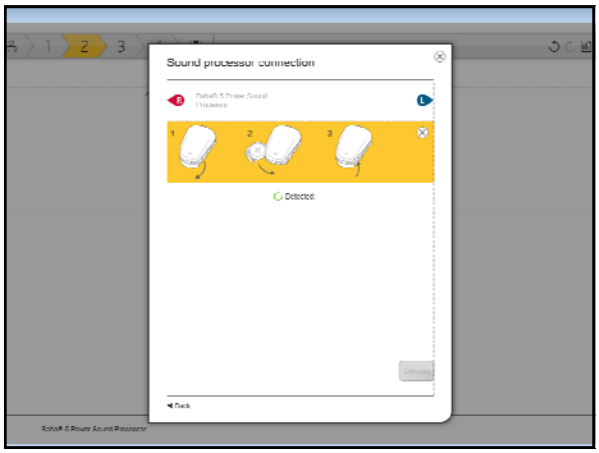

Sound processor connection
Change
Detect
Back


Sound processor connection
Detected
Connect
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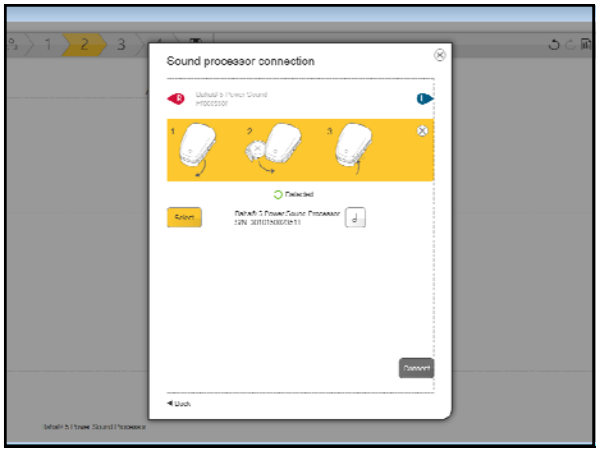
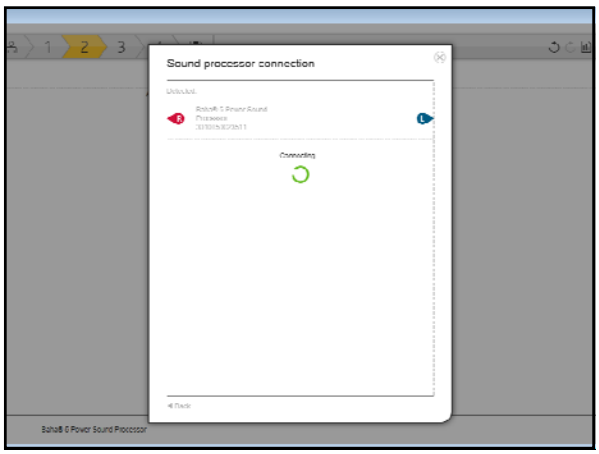
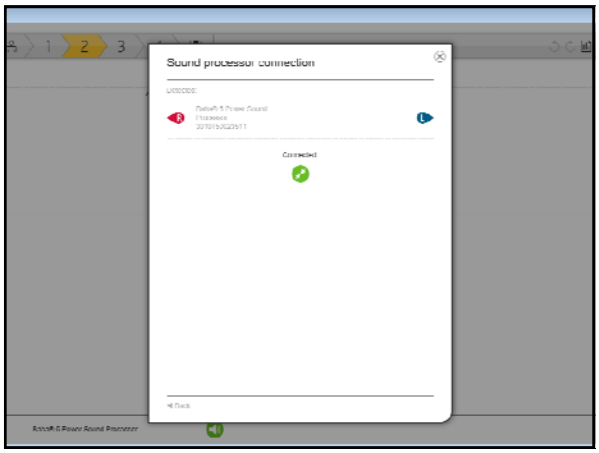

Sound processor connection
Detected
Select
Connect
Back


Sound processor connection
Connecting
Back


Sound processor connection
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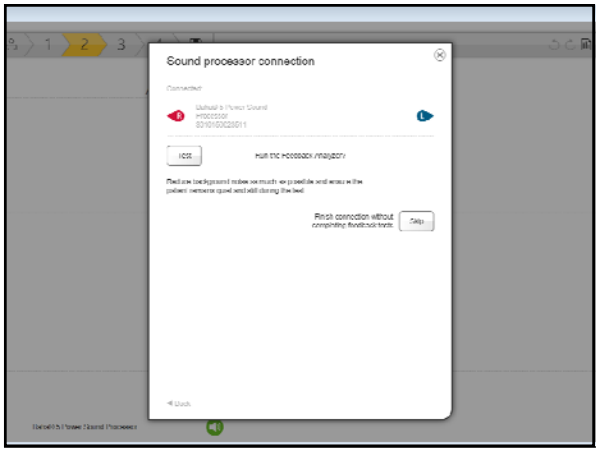
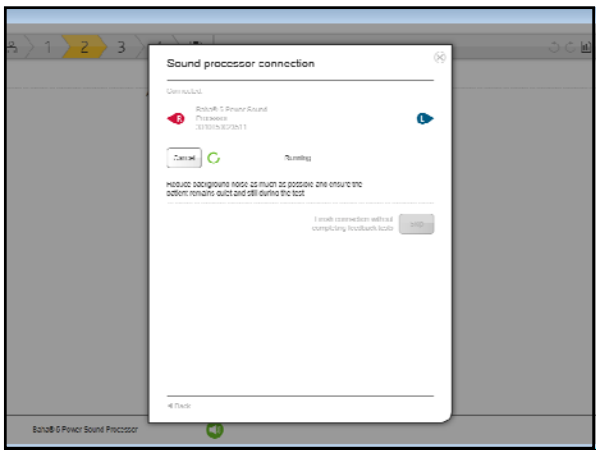
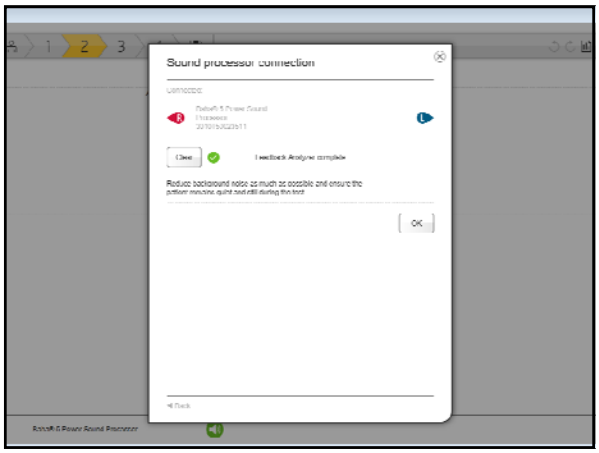
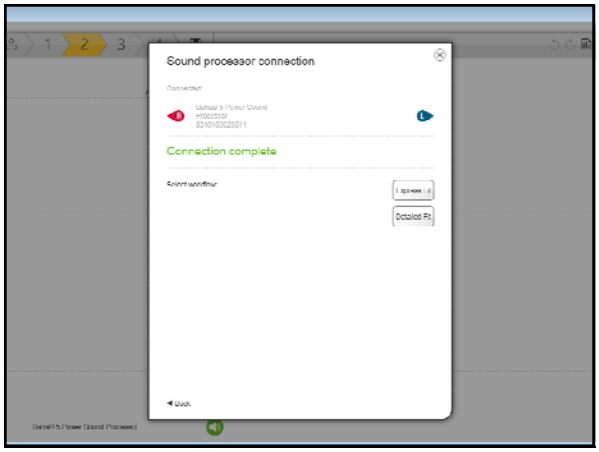
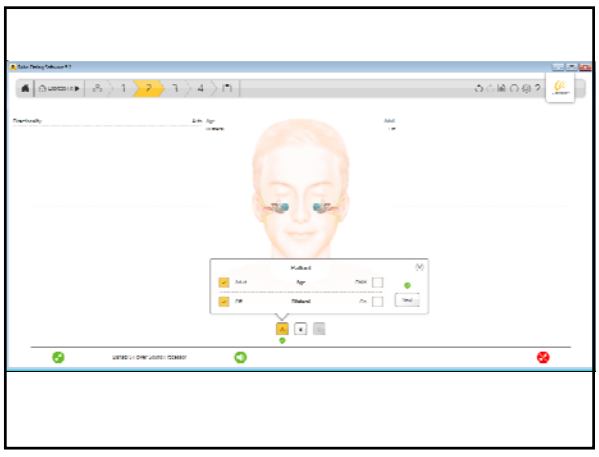
Back

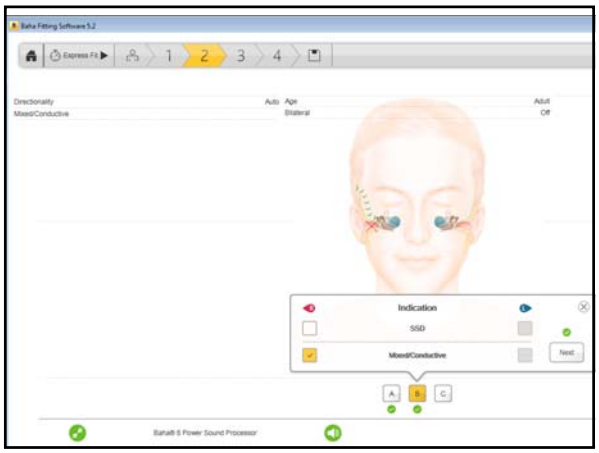

Sound processor connection
Test
Run the processor impedance
Finish connection without completing feedback tests
Skip
Back

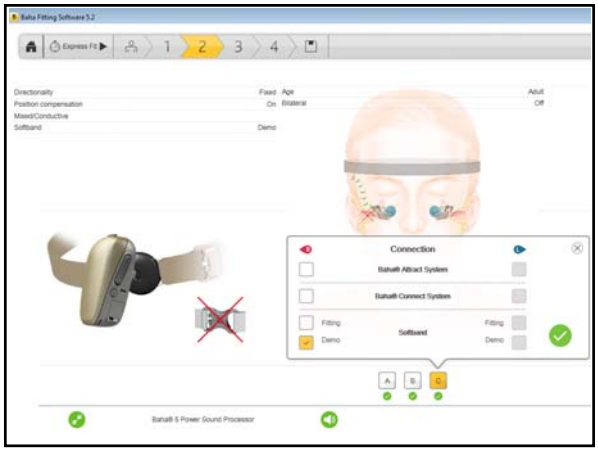

Sound processor connection
Cancel
Running
Back

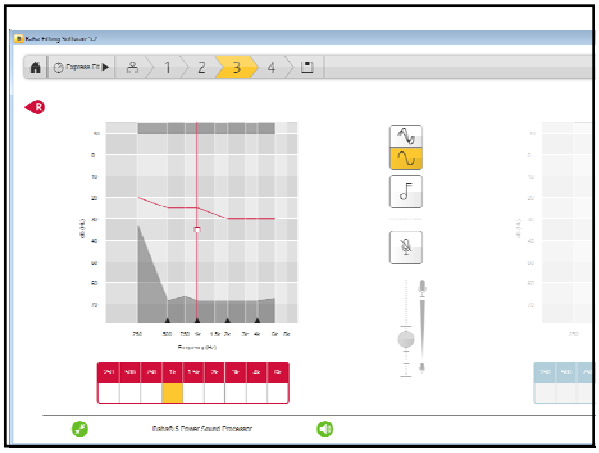

Sound processor connection
OK

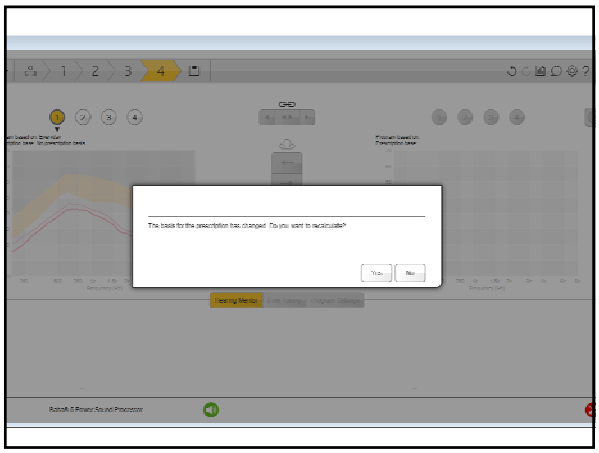

Sound processor connection
Connection complete




Indication
SSD
Mixed/Conductive
Next


Connection
Softband






Save

Patient Case #1

Background:

- 33 year old female with a history of left ear Acoustic Neuroma removal

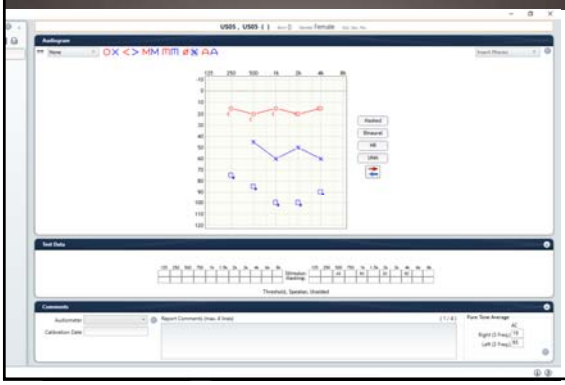
Fitting:

- Patient selected the Baha Attract Implant System and was fit with a Baha 5 Sound Processor
  - Using a # 3 strength Sound Processor Magnet
  - Active with the Baha Attract for 8 months prior to study visit

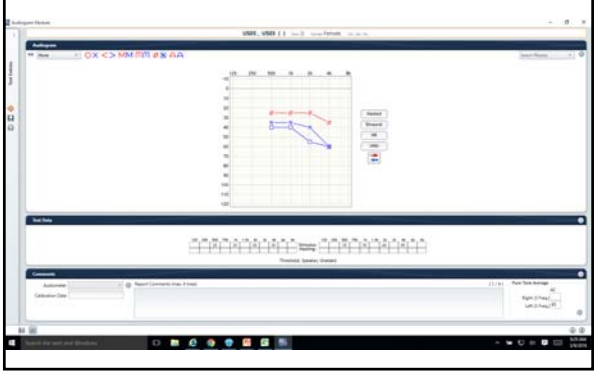
Patient report:

- Less than satisfactory outcomes with her Baha 5 fitting
- Trial with a BP110 provided minimal improvement

Patient Case #1: Audiometric Profile



Patient Case #1: Aided Thresholds with Baha Fittings



Patient Case #1: Speech Testing data (words in quiet)

	CNC Word Recognition in Quiet			
		50dB	65dB	
No Aid		74%	100%	
BP110		86%	96%	
Baha 5 SP		100%	98%	

Patient Case #1: Speech Testing data (sentences in noise)

HINT TEST	
	SNR 50%
No Aid	-0.2
BP110	-1
Baha 5 SP	-3.2
Automatic features deactivated	
Omni Microphone	
Speech @ 0 degreees Azimuth	
Noise @ 180 degrees Azimuth	

Patient Case #2

Background:

- 56 year old female with history of repaired cleft lip and palate
- Life long history of ear problems and hearing loss

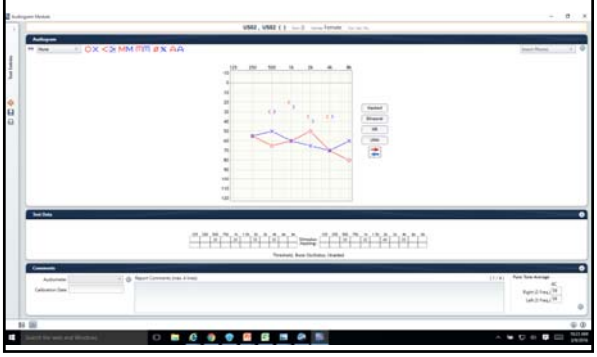
Fitting:

- Patient selected the Baha Attract System and was fit with a BP110 sound processor
  - Using a #2 strength Sound Processor Magnet
  - One year of Baha use on the right ear
  - Wears an acoustic hearing aid in the left ear

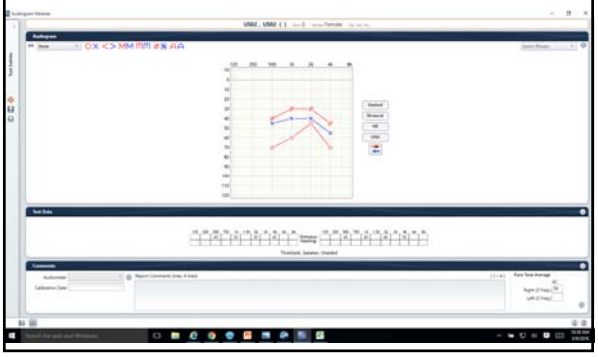
Patient report:

- Dissatisfaction with her current BP110 fitting

Patient Case #2: Audiometric Profile



Patient Case #2: Aided Thresholds with Baha Fittings



Patient Case #2: Speech Testing data (words in quiet)

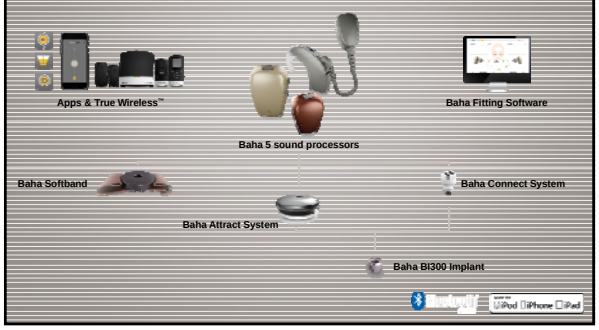
		50dB	**65dB**	
No Aid		0%	80%	
BP110		60%	92%	
Baha 5 SuperPower		94%	98%	

Patient Case #2:
Speech Testing data (sentences in noise)

	SNR 50%
No Aid	4.4
BP110	-1.6
Baha 5 SuperPower	-3.2
Automatic features deactivated	
Omni Microphone	
Speech @ 0 degrees Azimuth	
Noise @ 180 degrees Azimuth	

Cochlear™ Baha® 5 System

One smart solution. The power to choose.



Questions?