

Agenda

0-5 minutesIntroduction

○ 5-15 minutes BrainHearingTM and evidence

15-30 minutes
 Sound Quality: Output, Bandwidth, Clarity

o 30-45 minutes Fitting with Genie Medical 2016.1

45-55 minutes
 Pediatrics: Softband and DSL-BC

55-60 minutes
 Q & A

Because



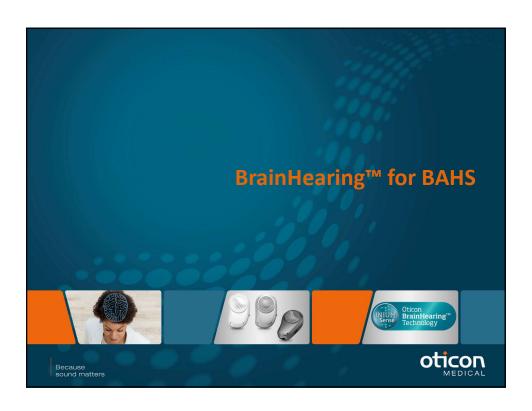
Learning Objectives

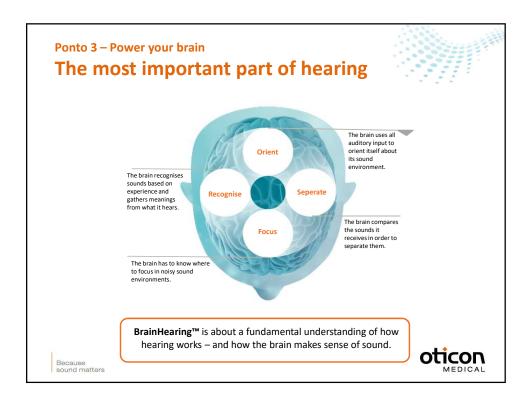
- After this course learners will be able to describe the fitting range and features of the Ponto 3 sound processors.
- After this course learners will be able to explain how Direct Sound Transmission and INIUM Sense Processing contribute to BrainHearing.
- After this course learners will be able to describe the importance of Output, Bandwidth and Clarity for BAHS patients.

Because sound matters



Ponto 3 delivers new success factors for even better patient outcomes Power your Brain Introducing BrainHearing™ for BAHS Powerful sound quality Highest output ever from an abutment level soundprocessor Widest frequency bandwidth 15% better speech understanding in 70% of time Empowering children First ever DSL-BC New Ponto Softband





Ponto 3 – Power your brain Introducing BrainHearing™ for BAHS



- BrainHearing[™] is about designing hearing devices to make listening easy.
- We provide audibility and signal processing that supports the brain's cognitive processes:

Direct Sound Transmission





Inium Sense platform



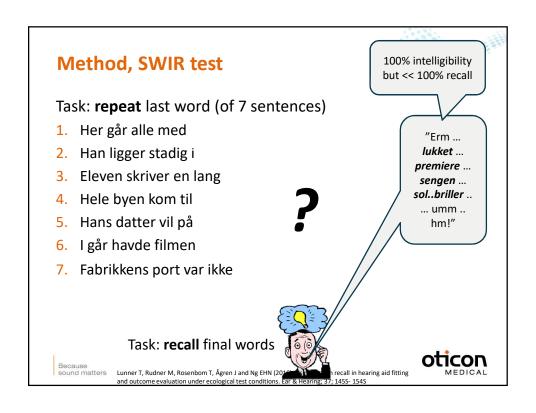
These are the prerequisite for delivering the output, bandwidth and clarity users need to experience powerful sound quality

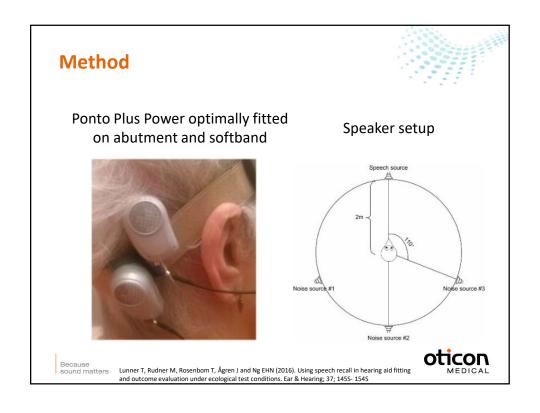
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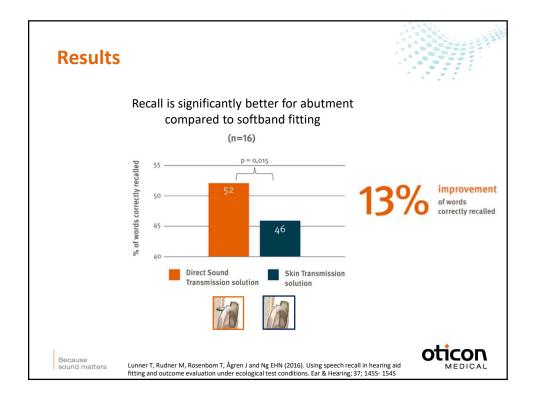
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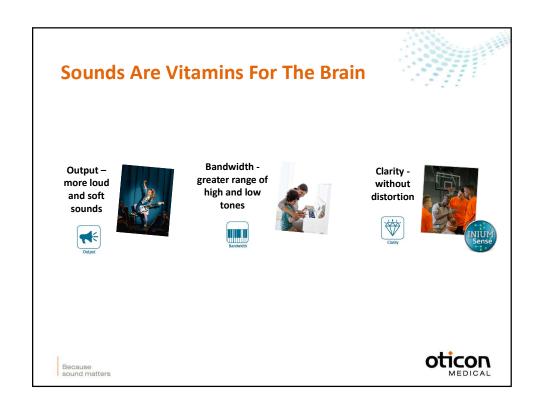
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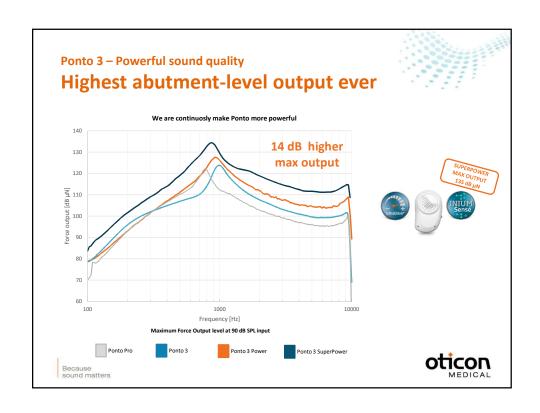


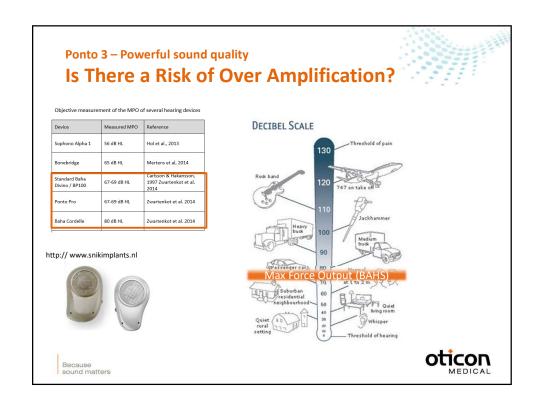
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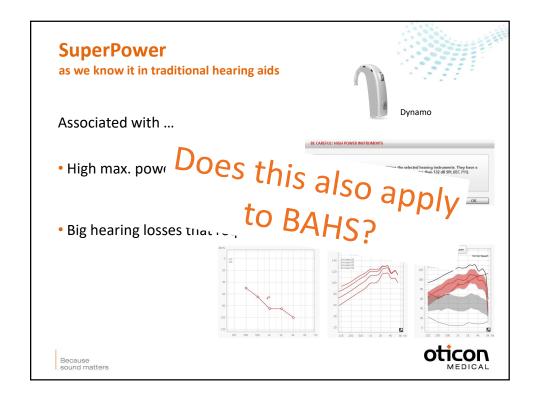


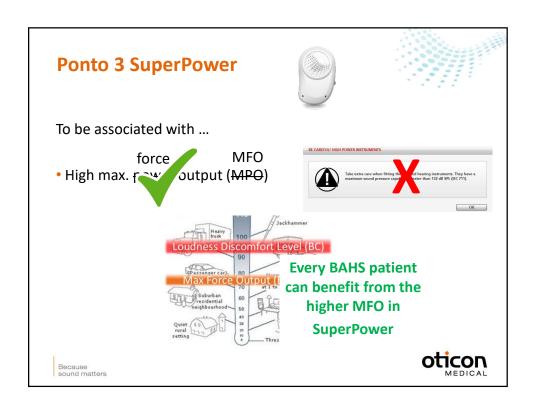


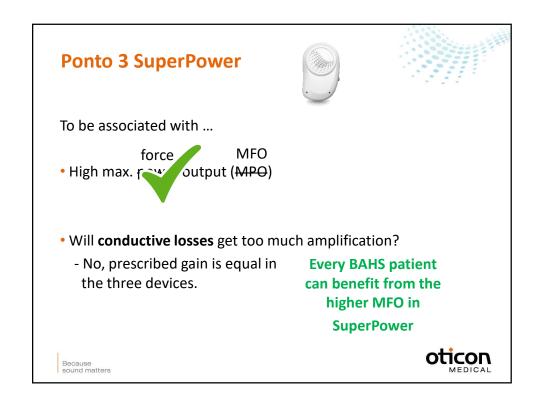




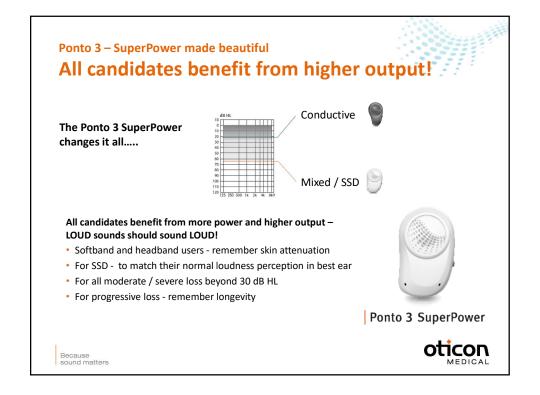




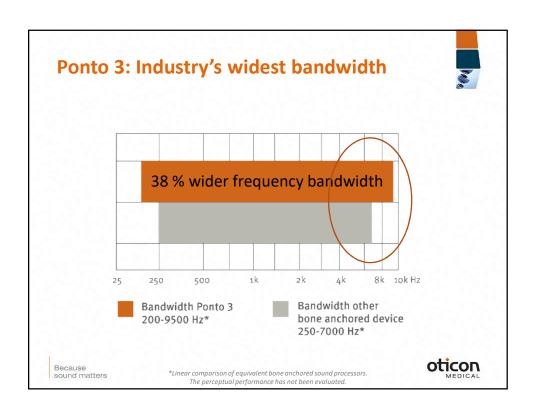


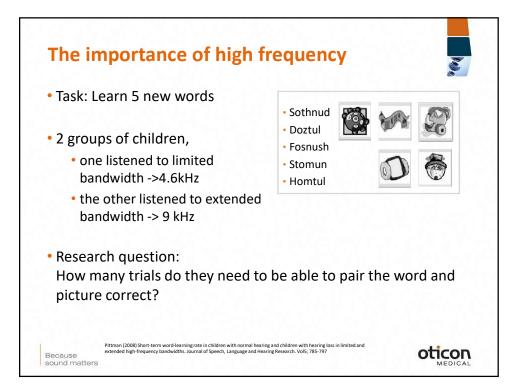


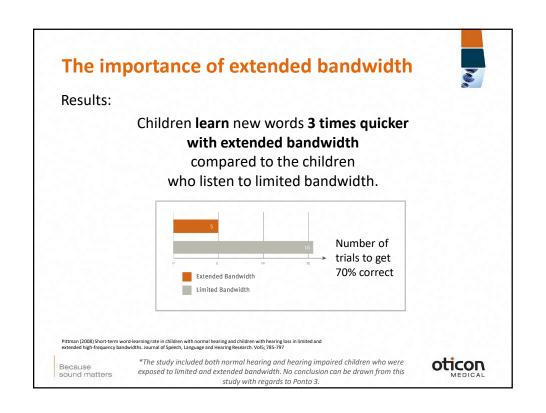
Ponto 3 – SuperPower made beautiful All candidates benefit from higher output! The Ponto 3 SuperPower changes it all..... All candidates benefit from more power and higher output – LOUD sounds should sound LOUD! Softband and headband users - remember skin attenuation For SSD - to match their normal loudness perception in best ear For all moderate / severe loss beyond 30 dB HL For progressive loss - remember longevity Ponto 3 SuperPower



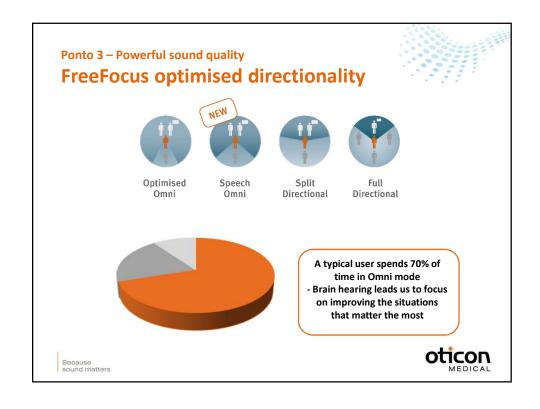




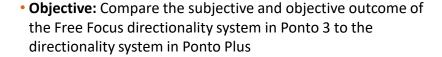








FreeFocus test



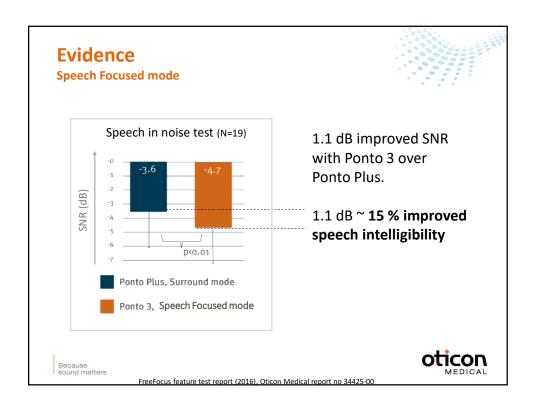
• Design:

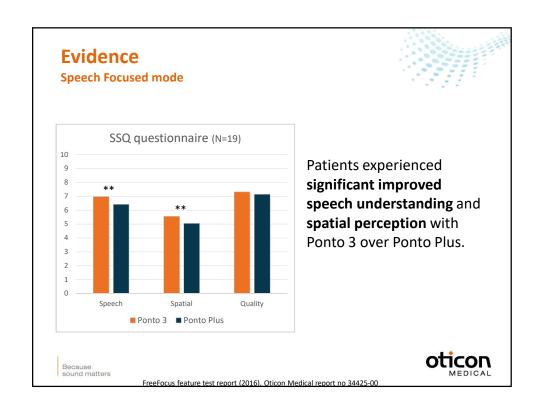
- 19 adult patients (conductive (5), mixed (9) and SSD(5)), all using Ponto Plus prior to test
- Test devices: Ponto 3 / Ponto Plus, Ponto 3 Power/Ponto Plus Power
- Test Speech Focused in laboratory, Automatic Tri-mode in real life.
- Outcome measures:
 - Speech in Noise test (Dantale II), loudspeaker set-up: $S_0N_{+/-110,\,180}$
- SSQ

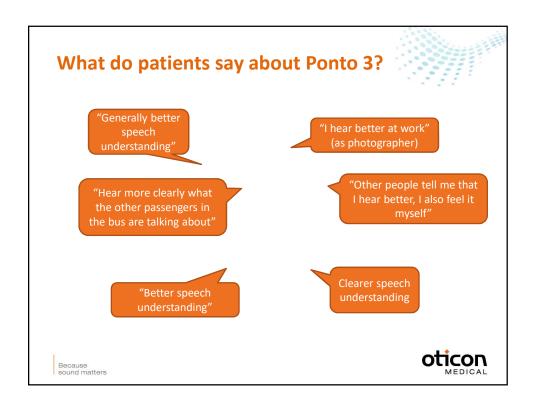
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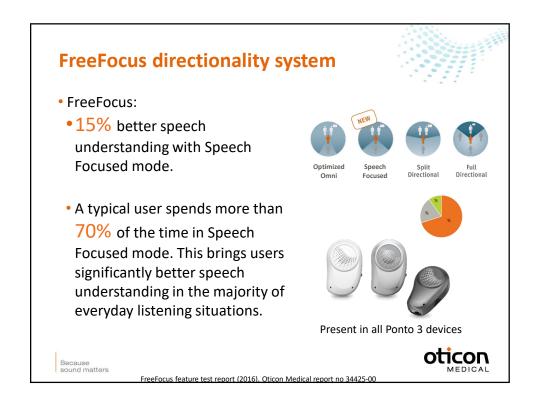
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FreeFocus feature test report (2016), Oticon Medical report no 34425-00

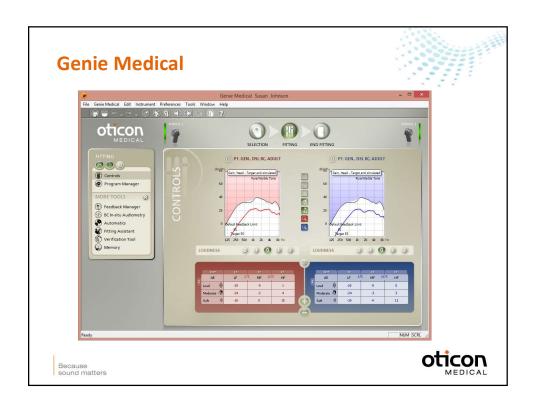


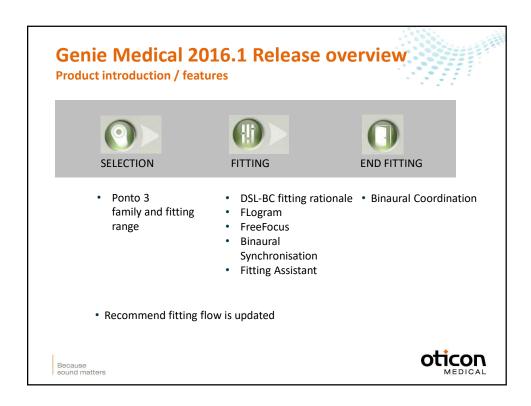


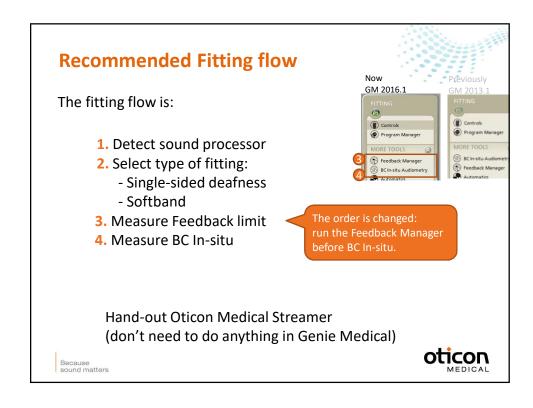


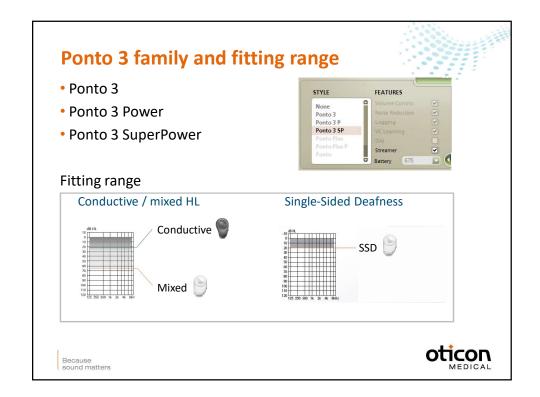


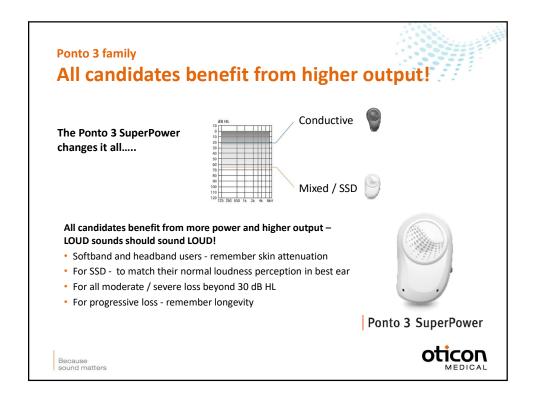


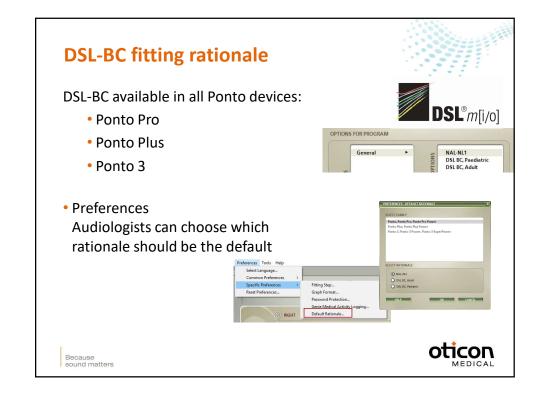






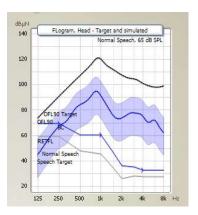






FLogram

• FLogram is new way to look at a fitting / prescription.

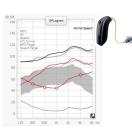


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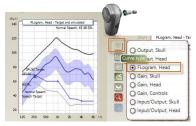


FLogram in Genie Medical

 FLogram is for bone anchored devices what SPLogram is for AC hearing aids



Sound pressure level (dB SPL) at ear drum



Force level (dBµN) at abutment on head

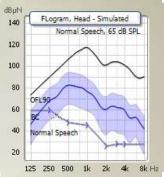
• FLogram is a graph option; the setting of the sound processor is the same no matter which graph is selected.

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FLogram in Genie Medical

- FLogram makes it easy to judge audibility, see and compare:
 - The patients BC hearing threshold as measured with BC In-situ
 - Max Force Output of the device and
 - Aided Normal Speech spectrum



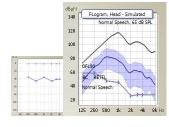
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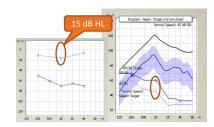


Hearing threshold level in FLogram

• 0 dB HL* = RETFL

*) measured with direct sound transmission via abutment



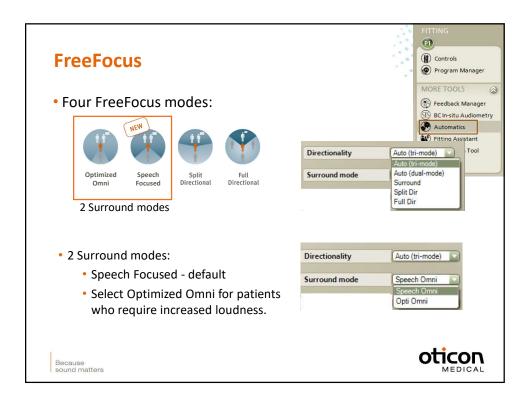


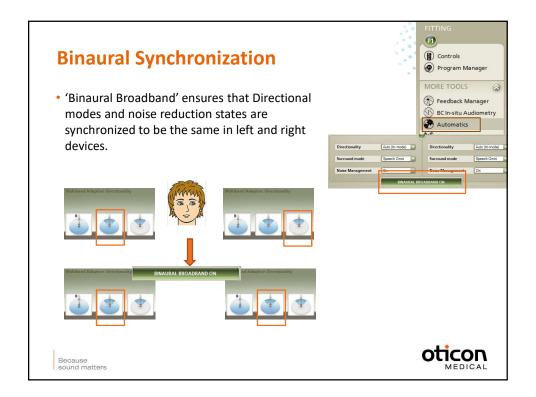
 RETFL = Reference Equivalent Threshold Force Level (for direct bone conduction transmission), normal hearing reference.¹

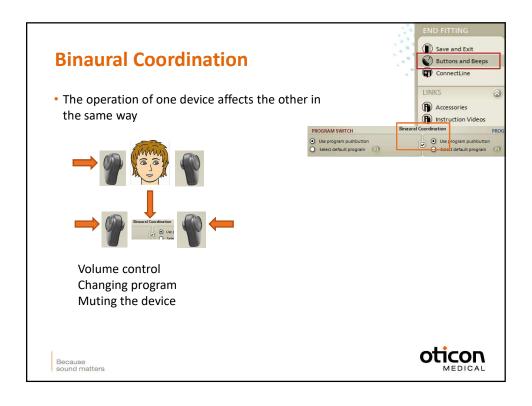
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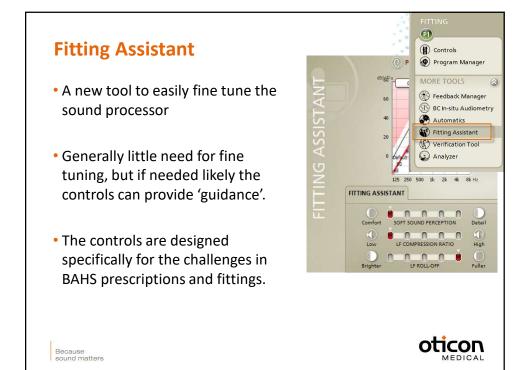
1) Carlsson et al (1995)

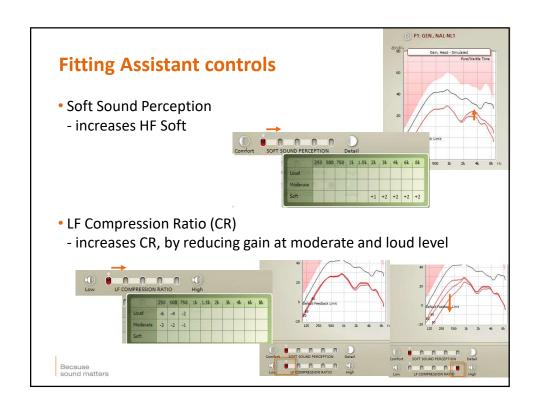


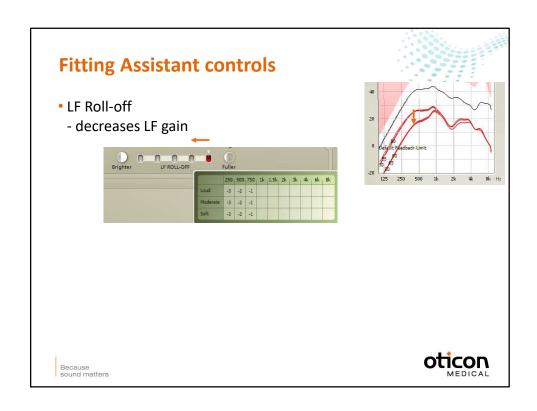




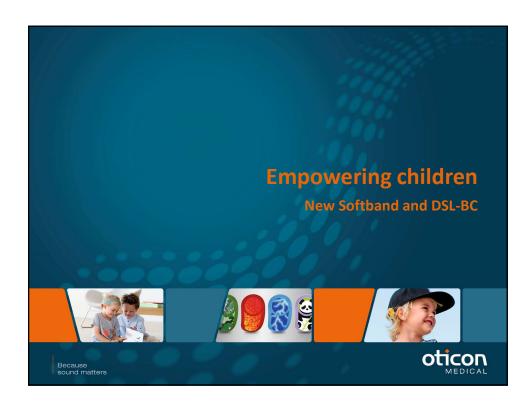






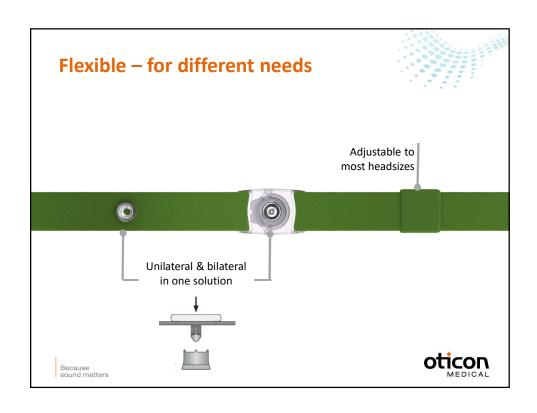


















First ever DSL-BC

The well-known **DSL** fitting rationale is now **tailor-made for BAHS**, called DSL-BC.

For the **first time ever** implemented in BAHS!



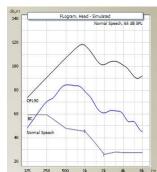
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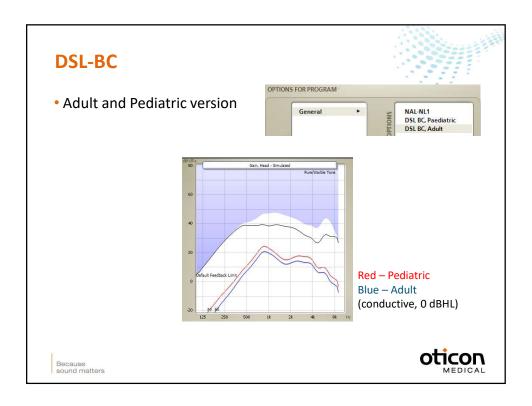
DSL-BC for BAHS

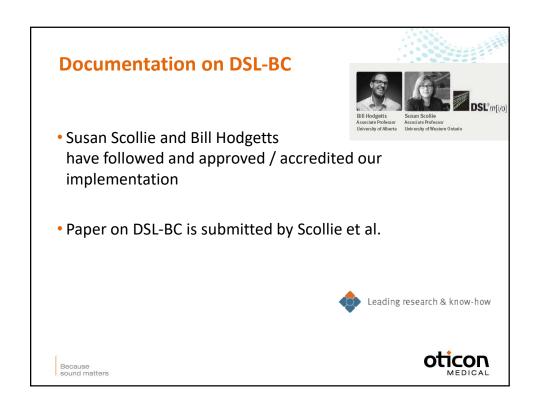
- Build on DSL v5.0 m[i/o] concept:
 Map the natural dynamic range to the patient's dynamic range (residual auditory area).
- Input parameters to DSL-BC:
 - · BC In-situ hearing threshold
 - Sound processors' MFO
 - RHCD (Real Head to Coupler Differences)
 - determines the patients' Dynamic Range
- And the amplification is prescribed

Product specific information already in Genie Medical Because sound matters









DSL-BC for BAHS

 Compared to NAL-NL1 in Ponto, DSL-BC provides:



- Less LF amplification
- Less amplification for conductive HL
- Some higher amplification (and CR) for larger mixed HL

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DSL-BC

- · Accessible in all Ponto devices!
 - Ponto Pro
 - Ponto Plus
 - Ponto 3

• First ever DSL-BC in BAHS fitting software!!







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Questions? Because sound matters Oticon MEDICAL