William Demant/

Management Presentation AudiologyNOW! 2017 6 April 2017

Søren Nielsen, President & CEO Jes Olsen, President of Oticon Medical

Agenda

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- Management
- General update
- Hearing Devices
- Hearing Implants
- Diagnostic Instruments
- Q&A



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Management



Søren Nielsen

President & CEO of William Demant Holding as of 1 April 2017

- Executive Board consists of Søren Nielsen and René Schneider (CFO)
- Continues as President of Oticon

Curriculum vitae

- Born in 1970
- M.Sc. in Industrial Management and Product Development, Technical University of Denmark (DTU)
- COO and Deputy CEO since 2015
- President of Oticon since 2008
- Employed with William Demant since 1995

Board positions

• Sennheiser Communications (board member)





Executive Board and Management

High seniority and lots of industry insights





René Schneider CFO







Arne Boye Nielsen Diagnostics

Niels Wagner

Retail

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General update



Highlights 2016

13% Strong revenue growth of 13% with organic growth of 6%

Oticon Opn and retail activities drove strong growth



US retail and Hearing Implants performed below expectations

-14-5)

Growth in Diagnostic Instruments in line with estimated market growth



Execution on strategic initiatives on track



EBIT increased by 12% to a record-high DKK 2,130 million before restructuring costs

Outlook 2017

We expect a unit growth rate of 4-6% with a low, single-digit decline in the market's average wholesale price due to competition and possible mix effects. In terms of value, we thus expect the wholesale market to grow by 1-3% in 2017 as was also the case in 2016.

We expect to generate growth in sales in all the Group's three business activities: Hearing Devices, Hearing Implants and Diagnostic Instruments.

Based on exchange rates in early 2017 and including the impact of exchange rate hedging, we expect a positive exchange rate impact on revenue of around 1% in 2017. Acquisitions made in 2016 will also impact consolidated revenue by approximately 1% in 2017.

We aim at a target gearing multiple of 1.5-2.0x measured as net interest-bearing debt (NIBD) relative to EBITDA.

Operating profit (EBIT) of DKK 2.2-2.5 billion before the announced restructuring costs of around DKK 200 million.

Hearing Devices

Oticon Opn™

The open sound paradigm continues to expand





Opening up the world

It has actually changed my life"

THIT

66 We're finally able to offer our patients **a truly lifechanging experience**" *Paula Schwartz, hearing care professional*

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G Rather than just hearing what's right in front, **I can now hear everything going on around me**"

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The Open Sound Experience

The result of a winning formula of Oticon technology



Oticon BrainHearing^T Technology

Powered by Velox[™]

OpenSound Navigator™

C

Spatial Sound[™] LX

BrainHearing[™] support

In 5 key areas





Opn[™] is now rechargeable!





Opn miniRITE – Convenient and Easy to Use Battery life for a full day's use



15 Oticon Opn - The open sound paradigm continues to expand



Opn miniRITE – A Powerful Combination

The only rechargeable hearing aid with an **open sound experience**

Existing Opn install-base can be **retrofitted** to become rechargeable



The world's first rechargeable hearing aid with **2.4 GHz** direct streaming

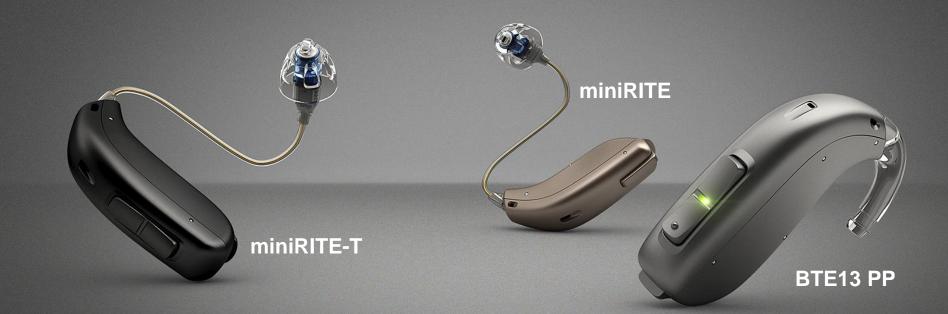
Hybrid battery technology for maximum flexibility – powered by ZPower



Introducing new styles

Even more open sound opportunities









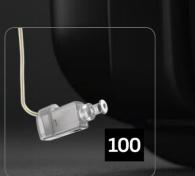






OTICON | Opn

Speaker 100



Power Flex mould





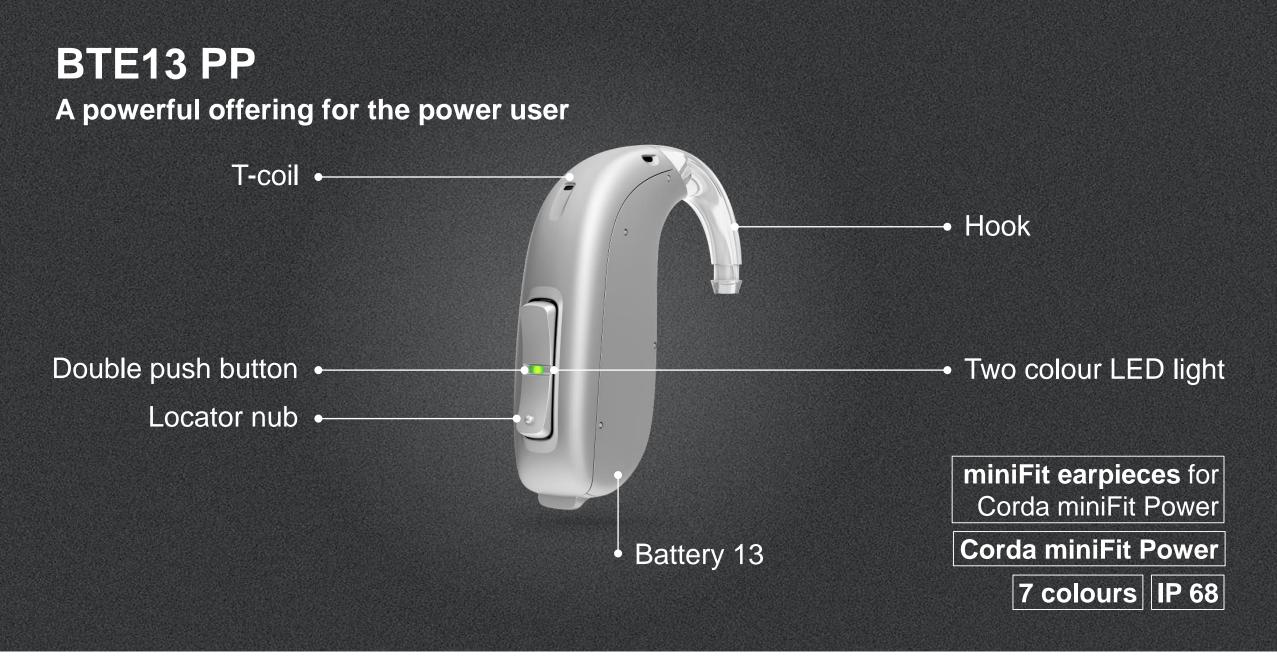


Introducing BTE13 PP

The perfect balance between size, user friendliness and power









Oticon Opn with Speech RescueTM Open sound with high-frequency audibility

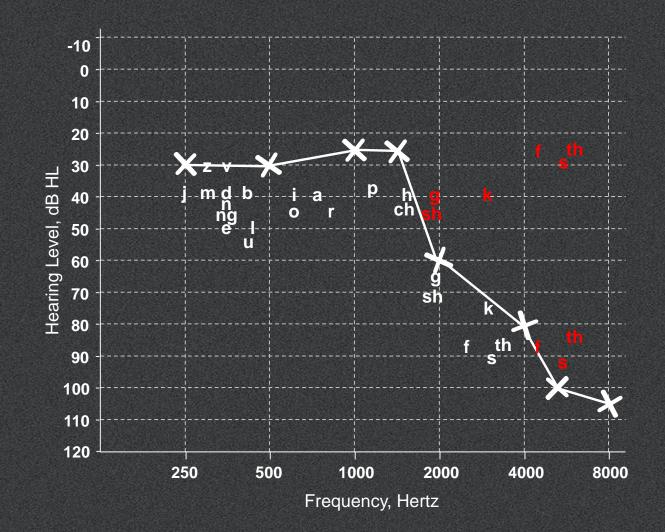
Also available to existing Opn users



Frequency lowering with Speech Rescue™

Making increased sounds available

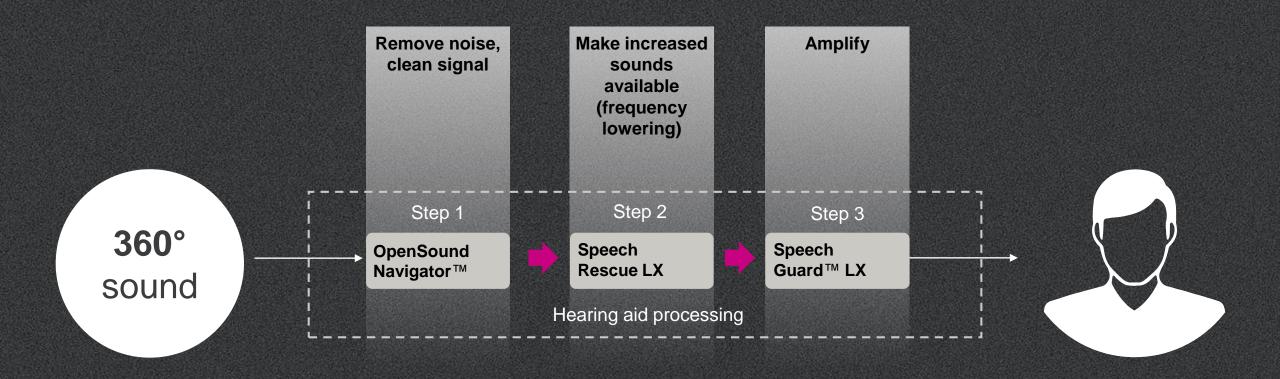
- Speech has less energy at high frequencies
- Hearing loss is often larger at high frequencies
- By taking the high frequency energy and moving it down to frequencies where there is less hearing loss – it is easier to make it audible





Speech Rescue LX and other features

A three-step process to deliver the best audibility

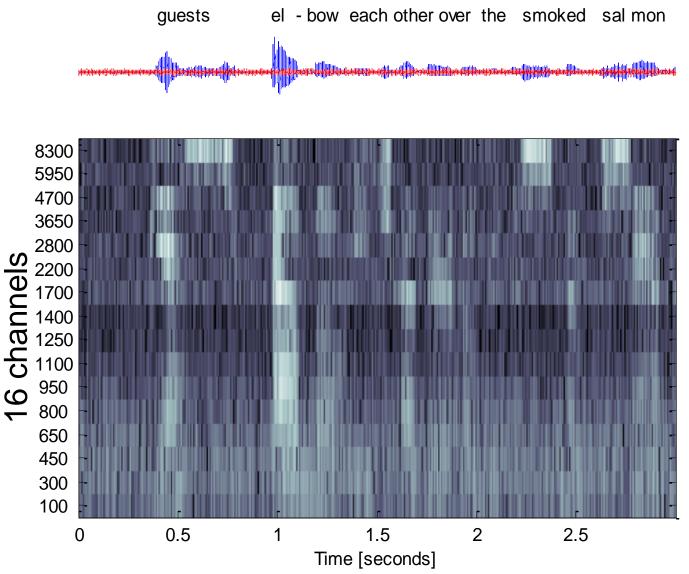


Speech Rescue LX is more effective with OpenSound Navigator because it receives a better signal



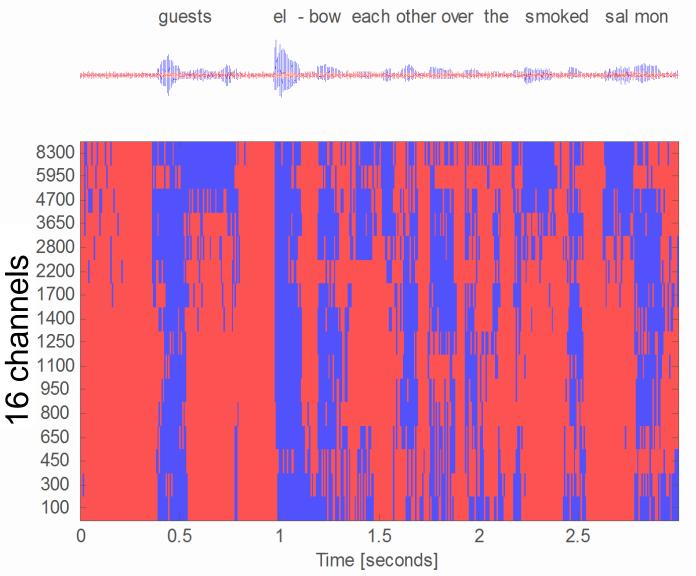


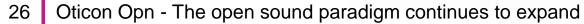
 Time/frequency representation of speech in noise





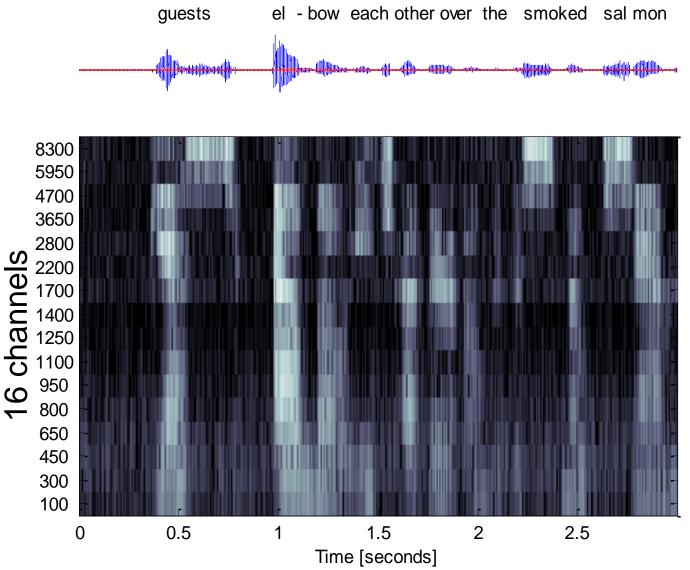
Analysis and subsequent labelling of speech and noise in OpenSound Navigator







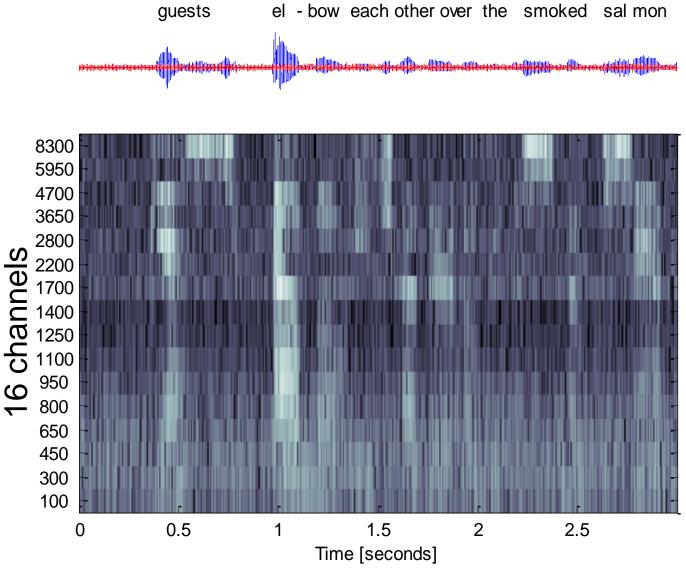
Speech in noise signal after removal of detected noise







 Comparison to speech in noise signal without OpenSound Navigator





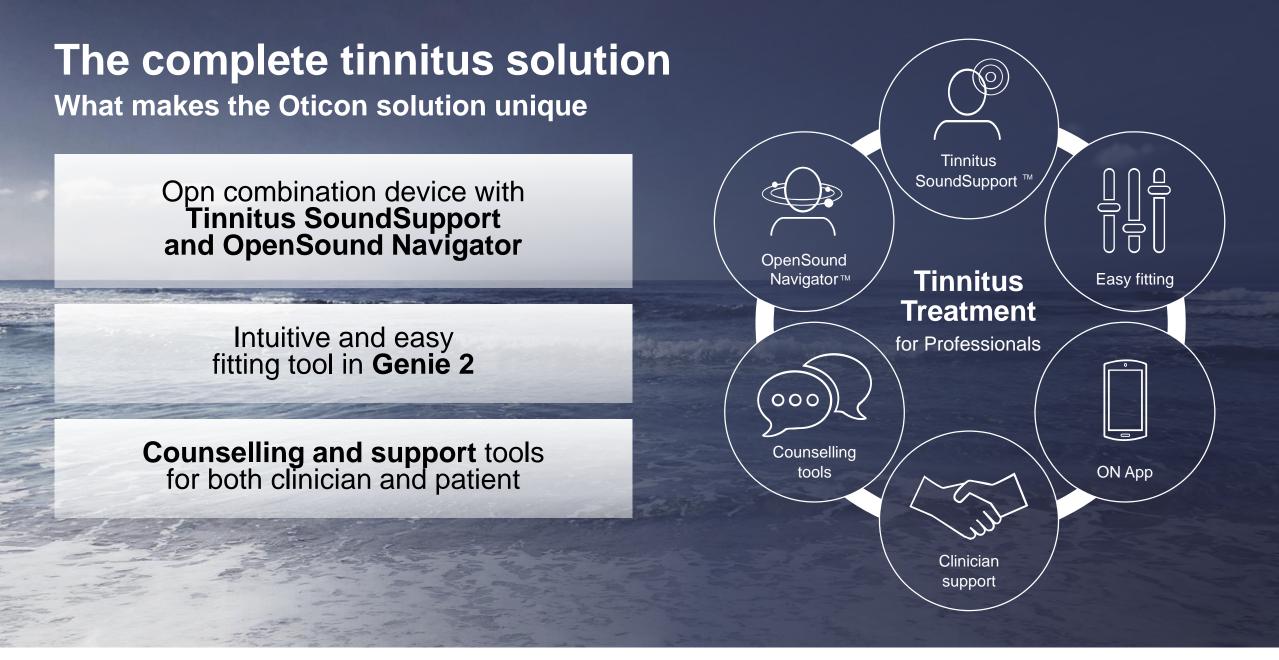
Oticon Opn with Tinnitus SoundSupport

A winning combination of tinnitus relief and open sound

Also available to existing Opn users



innerty of all





Opn – now also for teens

Introducing Desired Sensation Level (DSL) rationale for fitting of children and teens

Fits teens with assurance that **best practice guidelines** are followed

Confident listening both in classrooms and in complex listening environments common in a teen's life





Positive product mix effects from Opn

Opn 1 still leads positive product mix effect

- Very positive momentum continues
- Added to VA contract in November 2016
- Still best-selling Opn product

Opn 2 and 3 also having positive product mix effect

Launched in the upper mid-priced and the mid-priced segments in late November 2016
 Now rolled out in all major markets

- No material cannibalization on Opn 1



The open sound paradigm continues to expand

Now addressing even larger part of the market with our open sound paradigm

- Opn is now a rechargeable solution, including current install-base
- BTE13 PP addressing severe to profound hearing losses
- Addressing more types of hearing loss profiles with Speech Rescue™ in all styles and price points
- Tinnitus treatment feature in all styles and price points
- T-coil in ultra compact design
- Strong concept for teens

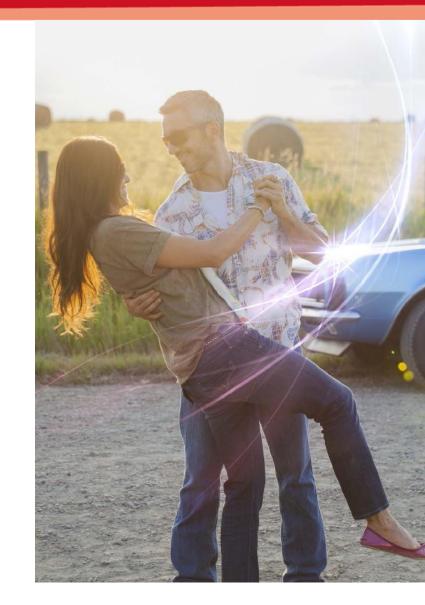
Available from end of Q2 2017





Bernafon and Sonic

- Our Bernafon and Sonic brands have driven high volumes
- Weakening of sales to Costco for Bernafon
- Both brands will launch new products by the end of Q2 2017
 - Will be available in different styles and in three price/performance categories









Selected Topics



William Demant/

Update on US OTC

- "Over-the-Counter Hearing Aid Act of 2017" (OTC bill) introduced in both chambers of US Congress on 21 March 2017
- There will be a workshop on Hearing Health and Technology on 18 April 2017 hosted by the Federal Trade Commission (FTC)
- We continue to believe that safety and efficacy for the end-user are crucial factors for penetration and satisfaction rates and we support hearing aids, OTC or not, being regulated as medical devices

PCAST (Oct 2015)		Introduction of OTC bill (Dec 2016)		Re-introduction of OTC bill (Mar 2017)		
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	NAS (Jun 2016)		FDA guidance (Dec 2016)		FTC workshop (Apr 2017)	

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Remote assistance/fitting

Connected hearing aids enabling a closer relationship between Hearing Care Professionals (HCP) and end-users

- Remote assistance may come in different forms varying with the type and level of
 - Support
 - Professional involvement
 - Adjustment/fitting possibilities
- Even for remote assistance solutions, direct interaction with a HCP remains key for ensuring trust, professional care and strong outcomes for end-users

FeatureOfflineReal-timeSupportDelayedReal-timeHCP involvementIndirect interactionDirect interactionAdjustmentFine-tuning of limited
range of settingsAdjustment of full
range of settings

Level of remote assistance

Hearing Implants

Ponto 3 – the world's most powerful family of abutment-level processors

Ponto 3 Power Ponto 3 S

55 dB HL

Ponto 3

45 dB HL

Ponto 3 SuperPower 65 dB HL

WORLD'S FIRST



Ponto 3 – the definition of power



• 1st wave launch in October 2016, Super Power in mid-December

- Continued strong momentum following the launch
- Market being redefined because of Super Power and the strong focus on the need for "direct drive" and more power for best possible outcomes









Direct transmission continues to be the golden standard in bone-anchored hearing systems

Direct drive	Ponto	 Paediatrics* and adults Conductive and mixed Single-sided deafness 	
	Transcutaneous, magnet	AdultsConductive	
Skin drive	Headband or softband	 Paediatrics before surgery is an option and adults Conductive Testing and before surgery is an option 	
Direct drive	Transcutaneous, active	 Paediatrics* and adults Conductive and mixed Single-sided deafness 	
		* Above the age of 5 years	

MEDICAL

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Neuro Cochlear Implant System

Neuro One

• Oticon Technology Inside

- Powerful Inium platform
- Automatic environment detection
- Free focus directionality
- Coordinated Adaptive Processing
 - Wide IDR
 - Voice Guard multiband compression
 - Coordinating the full package of advanced features
- Designed For Living
 - Wireless capabilities
 - The safe choice via Implant recognition, battery door lock, self check diagnostics
 - User friendly & comfortable design



Neuro Zti

- Ultra Compact Design
 - The smallest surgical footprint
 - Innovative materials
 - Ultra-thin
- Powerful, Future Ready Technology
 - Powerful chip capacity
 - 2nd generation fixation system
 - MRI peace of mind
- Proven Atraumatic Electrode Arrays
 - Proven atraumatic
 - Optimal combination
 - Precision micro-machining



Neuro – Significant progress through excellent outcomes

Implanting in more than 80 centers and 18 countries – and growing

- France active from 1st of March 2017
- Brazil active from April 2017
- •FDA trial started in January 2017
- Important reference centers
 - MHH Hannover, Germany
 - Rigshospitalet, Denmark
 - Lille University, France
 - World center of hearing Warzaw, Poland















Neuro – A strong offering complemented by upcoming introductions



Neuro offering	Fair	Good	Excellent	
Implant size			Х	
Surgical aspects			X	
Electrode insertion		Х		
Power efficiency			X	
Stability		Х		
Audiological outcomes			X	
BTE size (Neuro One)	Х		Х	Upcoming product introductions
BTE design and useability (Neuro One)	Х		Х	○ BTE: Neuro 2
Fitting system (Digimap)	Х		Х	◦ Fitting: Genie Medical CI
Fitting efficiency (Digimap)	Х		Х	• Fitting. Genie Medical Ci
Width of product range	Х			



Comparative data: The latest CI sound processing technology, Bergeron et. al. (2014)*

- Comparative data between major CI manufacturers from Bergeron et. al. (2014)*
- Data collected with latest technology for all manufacturers
- Random comparable samples
- 10 OM/Neurelec subjects included for all conditions. Other groups' subjects ranging from 13 to 15 (quiet), 12 to 15 (10dB), 9 to 15 (5dB) and 6 to 9 (0dB)
- Presented at the 13th International Conference on Cochlear Implants and Other Implantable Auditory Technologies, Munich, Germany, 2014.

*Bergeron, F., Hotton. M., Millette, I., Lamothe, J., Bussières, R., Côté, M, Philippon, D. 2014.





Speech recognition with the most recent technologies from the four major cochlear implant manufacturers; an update

Bergeron F^{1,4}, Hotton M¹, Millette I^{2,4}, Lamothe J^{3,4}, Bussières R^{3,4}, Côté M^{3,4}, Philippon D^{3,4}, ¹ Université Lavai, ² Institut de réadaptation en déficience physique de Québec, ³ CHU de Québec, ⁴ Québec Cochiear Implant Program

This study follows a preceding one (Bergeron et al, 2012) where speech recognition abilities were compared between the four major cochiaer implant manufacturers in a large cohort of users. At this moment, results showed no significant difference in speech perception between devices in quiet and in different noise conditions. While most devices appeared only slightly disturbed by the presence of a low to moderate noise level, one device appeared significantly more sensible to a degraded environment. As new devices and/or signal processing have been introduced since the first study, an update of the data has been initiated.

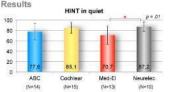
Methods Participants Data was extracted from all patient files featuring the most recent device from each manufacturer, that is 14 Advanced Bionics Naida, 18 Cochlear NG, 15 Med-El Opus 2 and 10 Neurelec Saphyr Neo. Patients with marginal performances (<10% HIN/T in silence) were considered as outliers and excluded from the database. The following table shows how samples are comparable in terms of age, duration of deathess, proop sentences perception scores in quiet in the best-aided condition and percentage of active electrodes. The Québec test is a recorded 60 sentences test presenting a higher difficulty

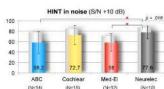
level than the HINT as three different speakers (male, female and child) are used. All pre-op figures are not significantly different between the 4 samples.

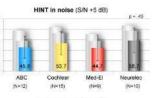
	ABC	Costilear	Med-EL	Neurelea
Mean age in years (SD) µ = 0.20	59,9 (13,2)	56,7 (17,8)	66,4 (12,5)	55,4 (12,7)
Mean duration of proford deatness in years (SD) p = 0,45	4,2 (4,9)	9,9 (11,9)	7,5 (9,4)	7,0 (11,8)
Mean preop Québec test (SD) p = 0.57	17,4 % (32,2)	23.4% (34,3)	22,3% (23,9)	36,1% (22,8)
Mean % of active electrodes p = 0.13	96%	98%	97%	93%

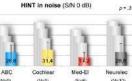
ssessments

Users were tested after a three months experience with their device, except for Neurelec users who were tested one month after the most recent uggrade of their processor. Assessments were realised in identical conditions using the HINT test in quiet and in noise with fixed signal to noise ratios of +10, +5 and 0 dB. Noisier conditions were assessed only when scores over 30% were observed in the preceding condition. Thus all tests conditions were not systematically administered to each user. All participants were asked to set the processor on their preferred program in each condition.









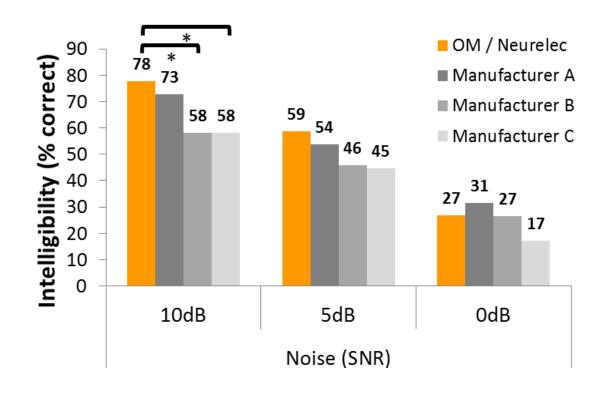
The updated data show that new devices and/or signal processing have introduced changes since the 2012 study. In quiet, mean score with the Neurelec device is significantly better than with the Med-El device. In a +10 S/N setting, mean score with the Neurelec device is better than with AB and Med-El devices. In worse noise conditions, a similar performance is observed among all devices. Correspondence: hancos begiven@thed.ubiat.ca



Significantly better results in noise - speech in noise



 Latest CI sound processing technology: In comparative data, Saphyr neo collection showed significantly better results in noise 10dB SNR than technology from manufacturers B and C*





Medizinische Hochschule Hannover – Study details



Medizinische Hochschule Hannover

Modified from A. Büchner et al., 2017 Oticon Medical Scientific Meeting, KBN, Den.

Neuro patients

•10 patients

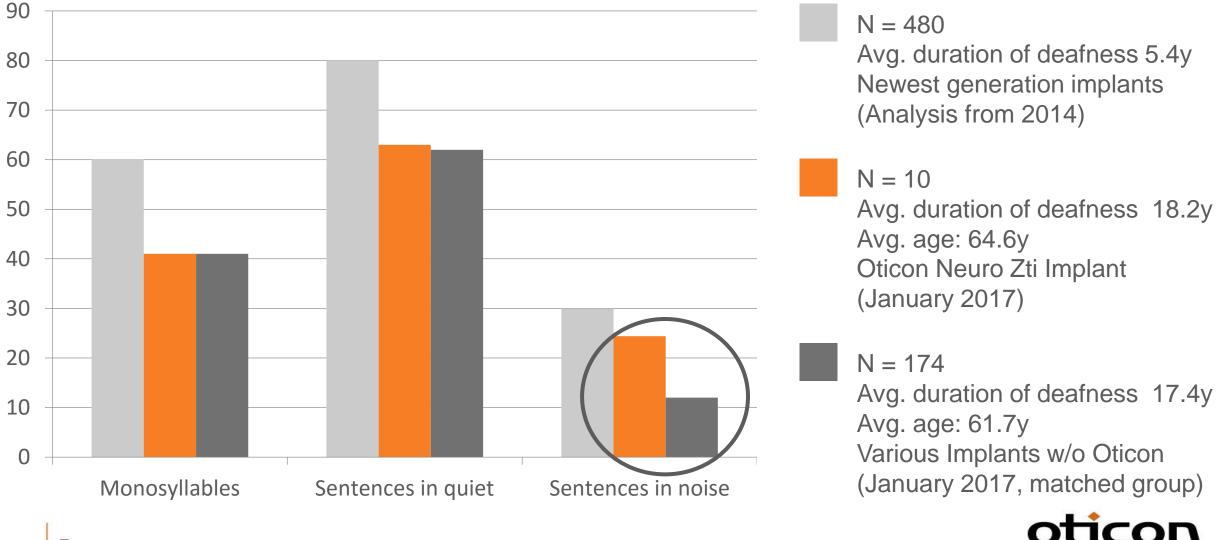
- •Age: 64.6 years on average
- •Long deprivation duration: 18.2 years
- Postlingual deaf adults, variable etiologies
- Monocentric data collection at 3 to 12 months post Neuro-Zti surgery

Matched control group

- 174 patients from the MHH CI patient's database matched for:
- •Age: 61.7 years on average
- ° Deprivation duration: 17.4 years
- Variable etiologies, variable CI experience
- Excluding the OM Neuro patients



Medizinische Hochschule Hannover – Study results



48 Because 48 sound matters MEDICAL

Completing the plan - creating the most attractive BTE and fitting software ever







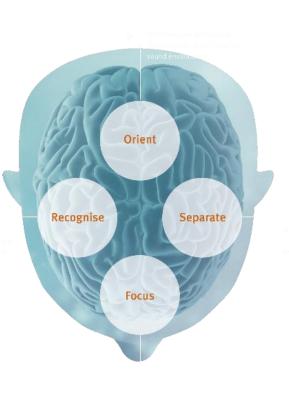


The short to medium term perspective

• What if the outcome data can be replicated for larger and diverse groups of patients?

- Speech in background noise is the holy grail in Cl
- Speech in background noise is strongly related to listening effort and Brain Hearing
- For paediatrics listening effort is very likely closely related to learning abilities and general development









Diagnostic Instruments

S MAICO

Diagnostic Instruments

• Multi-brand approach with wide range of audiological equipment products

	(((Gsi Grason-Stadler		i i	<u>Med Rx</u>	Micromedical	amplivox
Audiometers	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
Impedance	\checkmark	\checkmark	\checkmark			\checkmark
Fitting		\checkmark		\checkmark		
ABR*	\checkmark	\checkmark	$\overline{}$			
OAE*	\checkmark	\checkmark	\checkmark			
VNG*		\checkmark			\checkmark	

*Note: ABR: Auditory Brainstem Response; OAE: Otoacoustic Emissions and VNG: Videonystagmography

New products from Grason-Stadler and Maico

New touchTymp impedance product from Maico

- Middle ear diagnostics product
- Complements current screening product with additional advanced testing possibilities

New Pello diagnostic audiometer from Grason-Stadler

• Addressing the mid-level part of the audiometer market





Interacoustics – 50 years anniversary in 2017

Updated product portfolio within Video Nystamography (VNG) and Otoacoustic Emissions (OAE)

- Micromedical VisualEyes 525 is a new innovative touch screen balance equipment
- High market share in a growing market



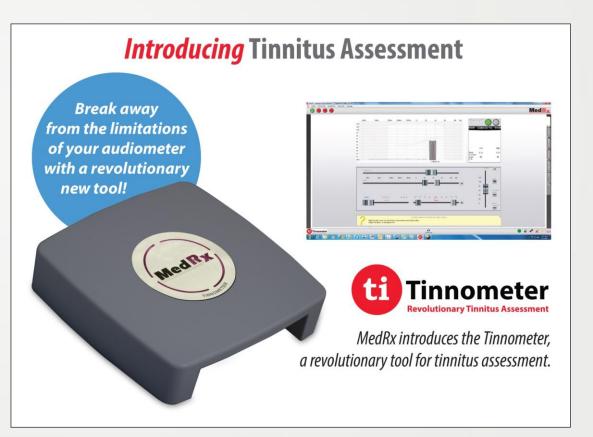
- Otoread is a new portable OAE device
- Optimized for accuracy and ease of use



MedRx Tinnometer

Revolutionary new approach to tinnitus assessment

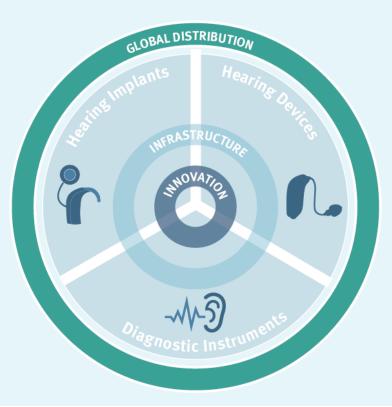
- First solution of its kind on the market
 - Customized stimulus
 - Precise control of level, shape & frequency
 - Built-in tinnitus reports
- Significantly reducing the time of performing a tinnitus assessment
- Improved accuracy in tinnitus assessment





A strong platform for future growth

... and a vision to make **a life-changing difference** to people living with hearing loss





William Demant/

Q&A



William Demant/

IR contacts



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