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Audiology Online 8th March 2023

Ponto 5 SuperPower –

New clinical data and key elements in BC devices

Julie Neel Weile

Director, Product Management & New Business Introduction

Oticon Medical

Learning Outcomes

- 1) Upon completion of this course, participants will be able to describe OpenSound Navigator and new speech intelligibility data comparing the Ponto 5 SuperPower with the Ponto 3 SuperPower.
- 2) Upon completion of this course, participants will be able to list 3 important key elements in bone conduction solutions.
- 3) Upon completion of this course, participants will be able to describe new clinical evidence regarding patient preference for the Ponto 5 SuperPower.

Agenda

- Introduction
- New clinical data – performance
- Key elements of BC devices
- New clinical data – preference



Ponto 5 Mini

Ponto 5 SuperPower

A woman with grey hair, a younger woman with dark hair in a braid, and a man with a shaved head are looking upwards with expressions of hope and confidence. They are positioned in the foreground against a dark background with glowing blue lines and dots, suggesting a network or digital environment.

Ponto™ System

The confident choice for your patients



Ponto 5 Mini

Ponto 5 SuperPower

Ponto 5 Family

Proven to deliver better hearing

Our best SuperPower yet

Since Oticon Medical introduced Ponto 5 SuperPower, twice as many people than ever before are experiencing the SuperPower of sound



2x¹

¹Data on file at Oticon Medical, Doc-00121115, and Doc-00121116, 2023

Clinical studies comparing SuperPower sound processors

Two cross-over studies with within-subject control design

The main goal of the studies were to

1. Compare speech intelligibility of Ponto 5 SuperPower and Ponto 3 SuperPower
2. Investigate the preference between Ponto 5 SuperPower and Ponto 3 SuperPower from experienced users



Two different studies – more powerful conclusions



Oticon Medical
Kongebakken, Global headquarter, Copenhagen,
Denmark



Prof. Dr. Susan Arndt, Dr. Thomas Wesarg,
University Medical Center, Freiburg
Germany

Two different studies – more powerful conclusions

4 visits, 3 trial periods in a cross-over design

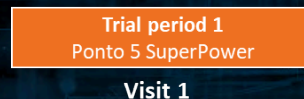
Full clinical trial design



1 visit, in-clinic, same day trial



Mimicking everyday clinical experience



Two different studies – more powerful conclusions

12 experienced Ponto 3 SuperPower users

- 2 conductive loss
- 7 mixed hearing loss
- 3 SSD

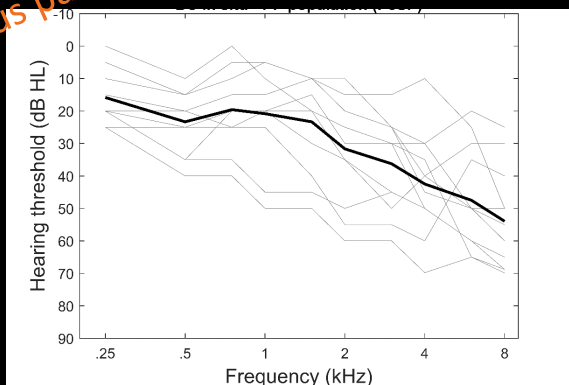


8 experienced Ponto 3 SuperPower users

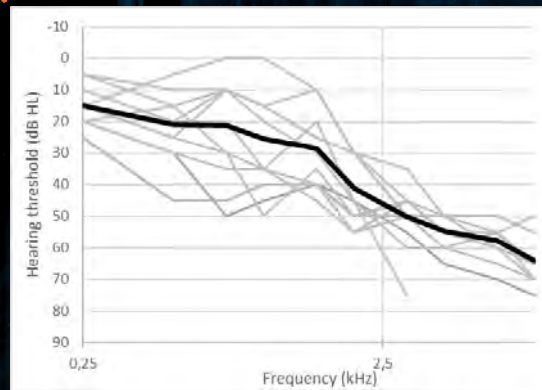
- 8 mixed hearing loss
- 4 bilateral users



Various patients



More "classical"
SuperPower users



Two different studies – more powerful conclusions

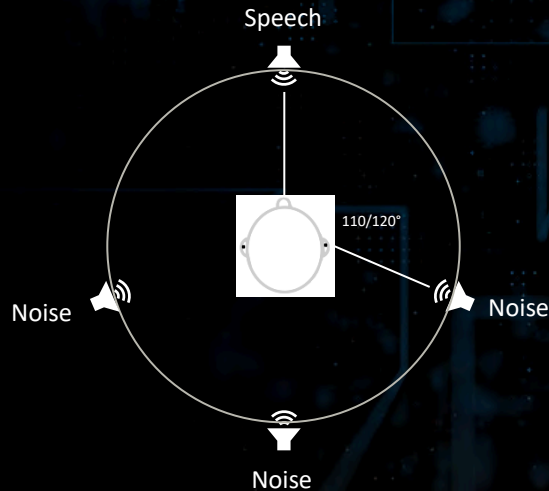
Dantale II speech test (Danish)

- Word recognition test
- SNR for 70% correct, corrected



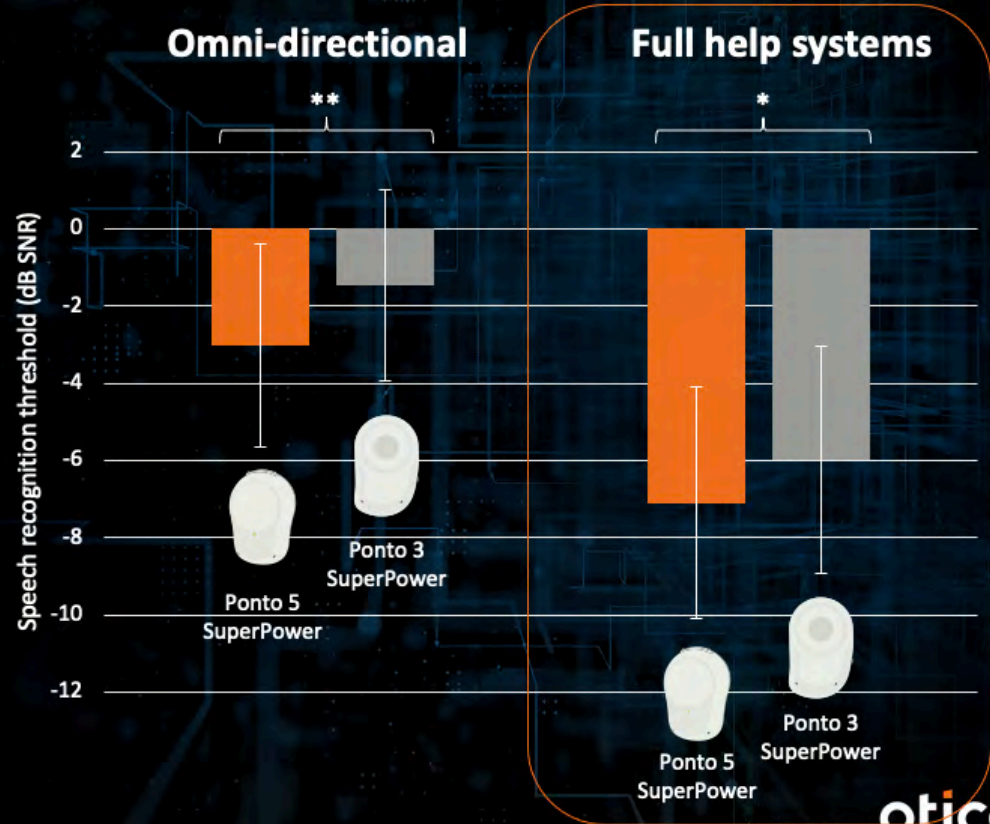
OLSA (German) 8 mixed hearing loss

- Word recognition test
- SNR for 50% correct



Proven to help you hear speech better

With Ponto 5 SuperPower, speech recognition is significantly improved, both with the use of Ponto 5's advanced signal processing and without.



Proven to help you hear speech better even in noise

Ponto 5 SuperPower's advanced signal processing system OpenSound Navigator delivers **360° sound with selective noise reduction** in complex environments

OpenSound Navigator™



Proven to help you hear speech better even in noise

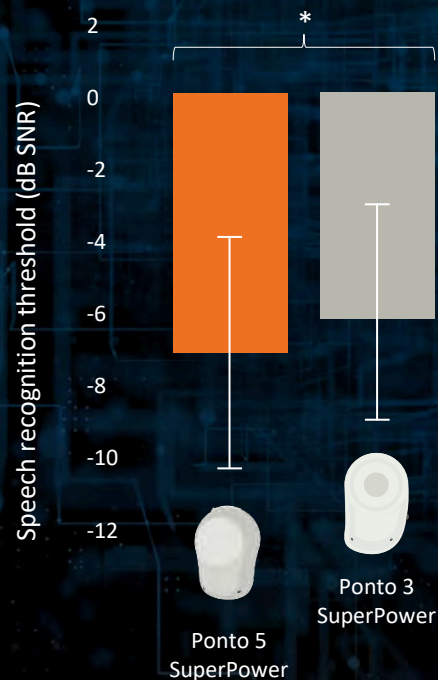
In a cross-over clinical study,
Ponto 5 SuperPower was shown to deliver

16% increased speech understanding

compared to Ponto 3 SuperPower in
noisy environments

Data on File at Oticon Medical, Doc-00121116, Jan 2023

Advanced signal processing



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Proven to help you hear speech better even in noise

How are 16% and dB SNR connected?

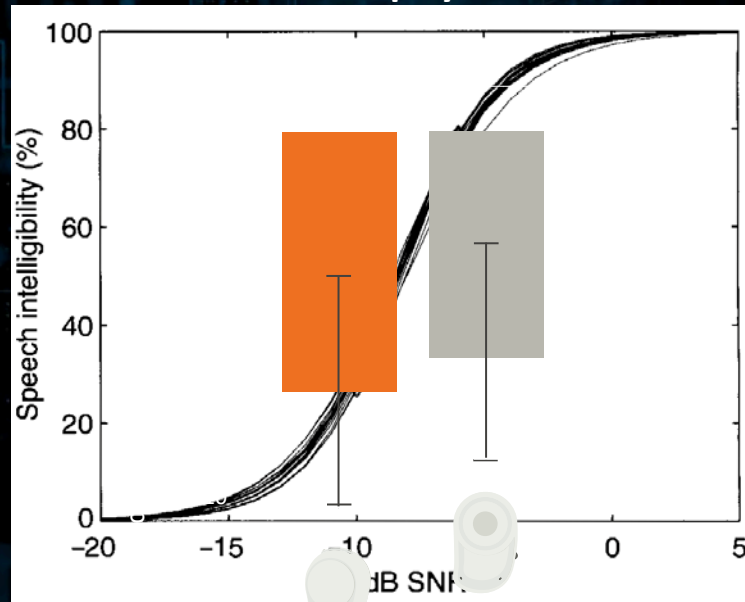
1.1dB Improvement measured

Slope for German test 17.1%/dB @50%

Slope for Danish test 12.6%/dB @50%

Data on File at Oticon Medical, Doc-00121116, Jan 2023
Wagener KC, Brand T, Kollmeier B, 1999
Wagener, K., Josvassen, J. L., & Ardenkjær, R., 2003

Full help systems



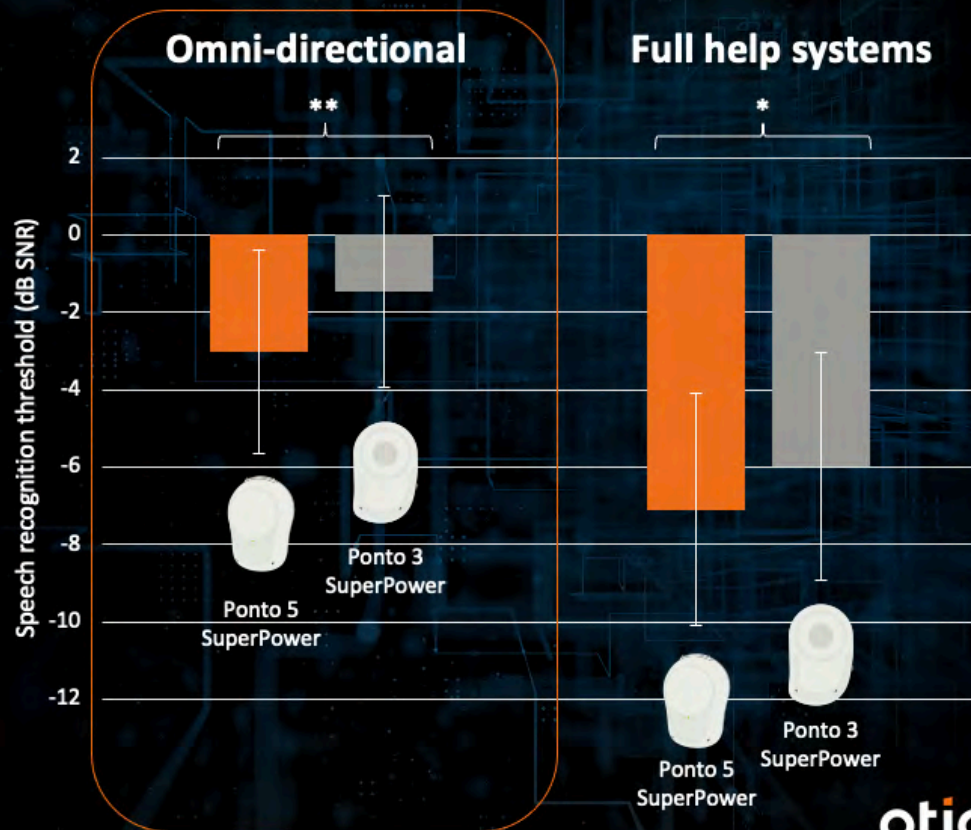
Ponto 3
SuperPower

Ponto 5
SuperPower

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Proven to help you hear speech better

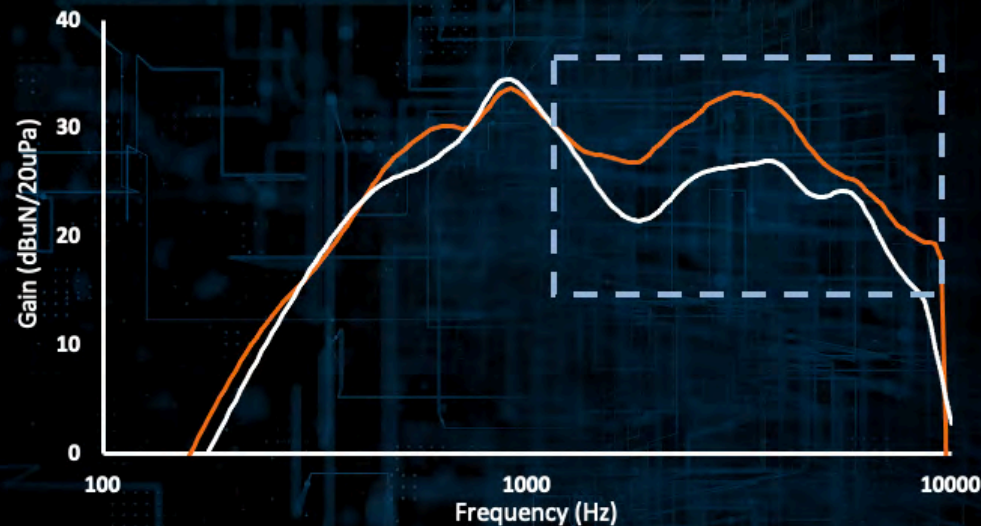
With Ponto 5 SuperPower, speech recognition is significantly improved, both with the use of Ponto 5's advanced signal processing and without.



Proven to deliver more gain

Ponto 5 SuperPower improves gain, ensuring soft sounds can be heard.

- 5 dB added stable gain in Ponto 5 SuperPower



Ponto 5 SuperPower



Ponto 3 SuperPower

No audible feedback

With Ponto 5 SuperPower you get more gain, so soft sounds are audible.

At the same time, instead of just managing feedback, Ponto 5's OpenSound Optimizer™ can actually detect and prevent it from occurring.

Put simply, **proven to provide more gain with no audible feedback***

*When fitted according to recommendation
Data on file at Oticon Medical, Clinical study BC109

OpenSound Optimizer™

GAIN



FEEDBACK





Ponto 5 Mini

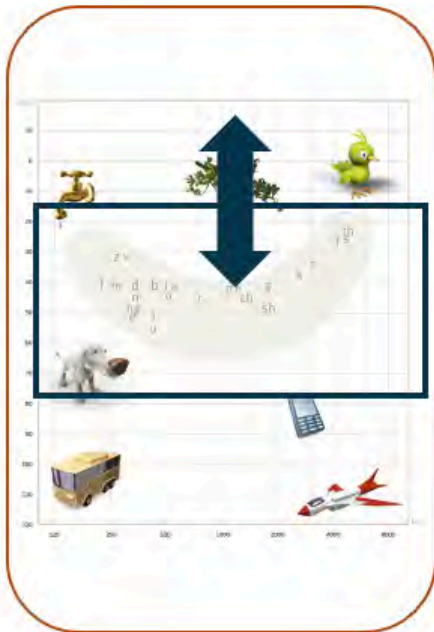
Ponto 5 SuperPower

Bone Conduction solutions

Key elements

The key elements of bone conduction sound

Audibility



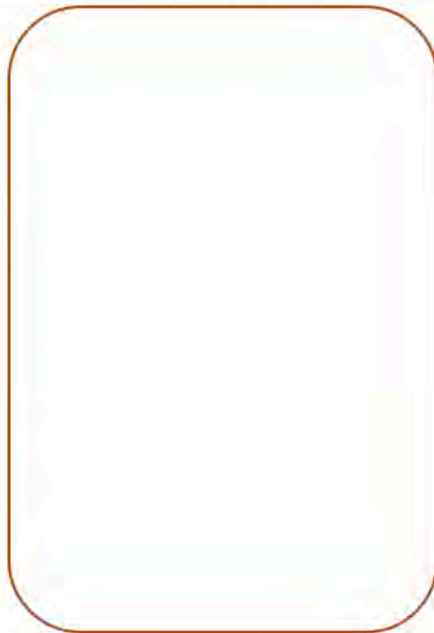
The key elements of bone conduction sound

Let's take a closer look at audibility

Audibility



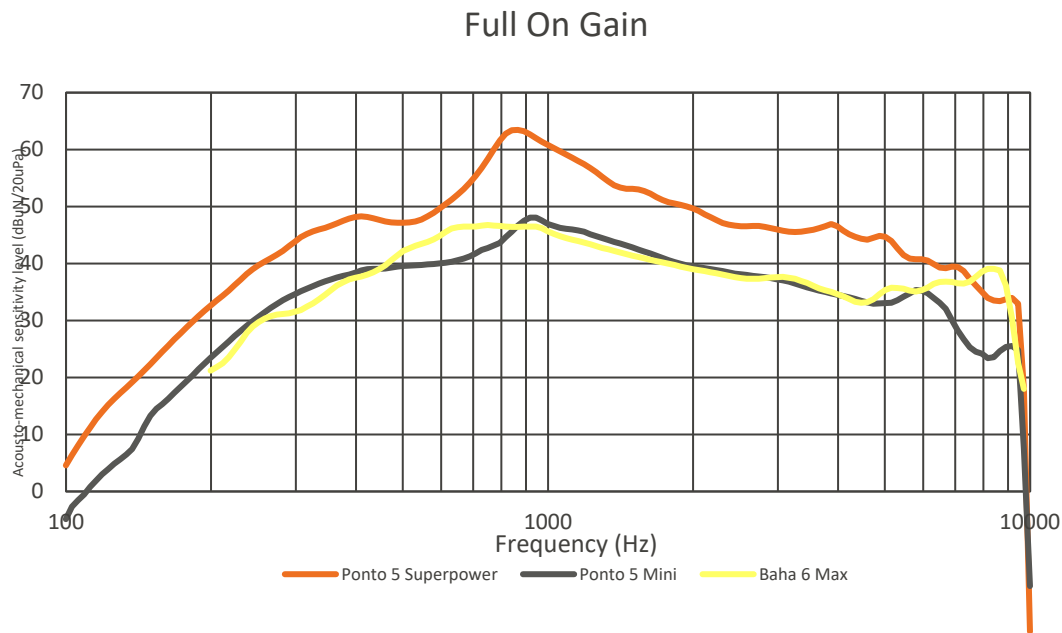
Signal processing



Maximum force output



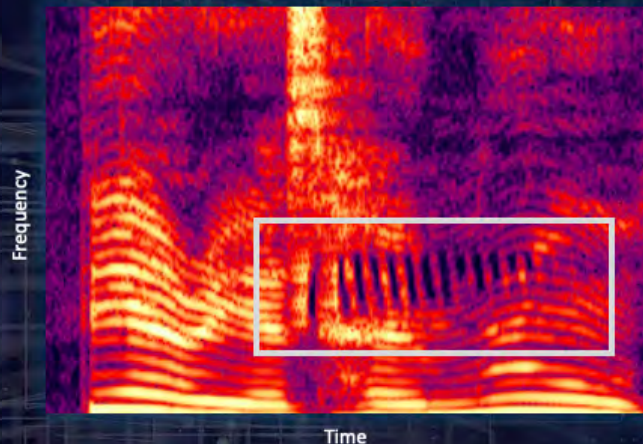
When talking about maximum gain there is only one SuperPower



OpenSound Optimizer™

Ground-breaking technology

- **Patented** breaker signal
- **Proactive and fast.** It detects and prevents feedback in approximately 60 ms.
- **Precise.** It deploys only in affected frequency bands. It stops the breaker-signal when the feedback risk has passed
- **Non-intrusive.** It is applied briefly and effective at stopping feedback with minimal impact on speech spectrum

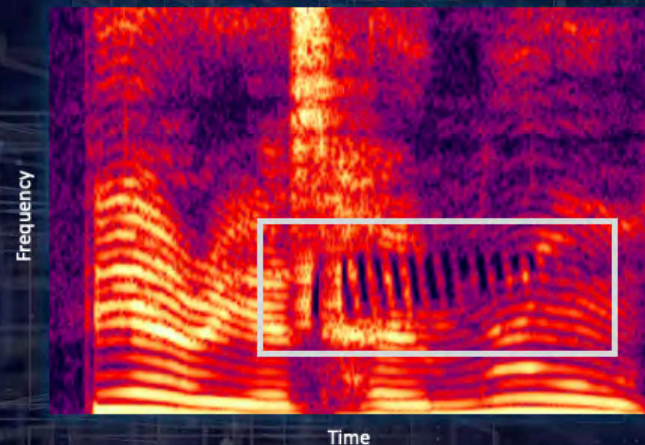


Spectrogram showing the patented breaker signal made using Spectro Temporal Modulation

**What amount of gain
is accessible
for patients in real life?**

OpenSound Optimizer™

Ground-breaking technology

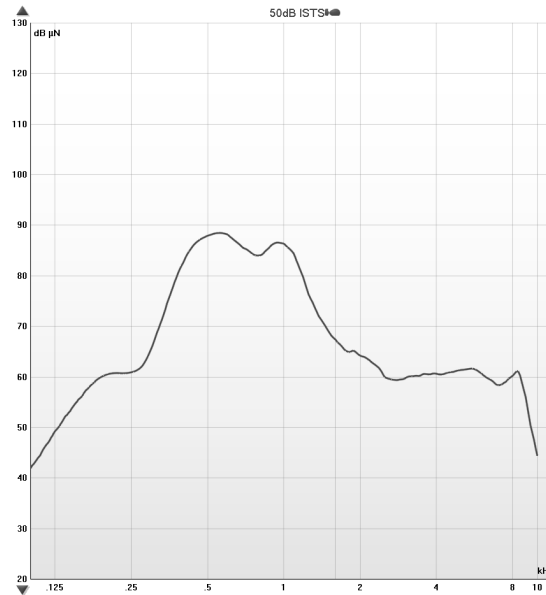
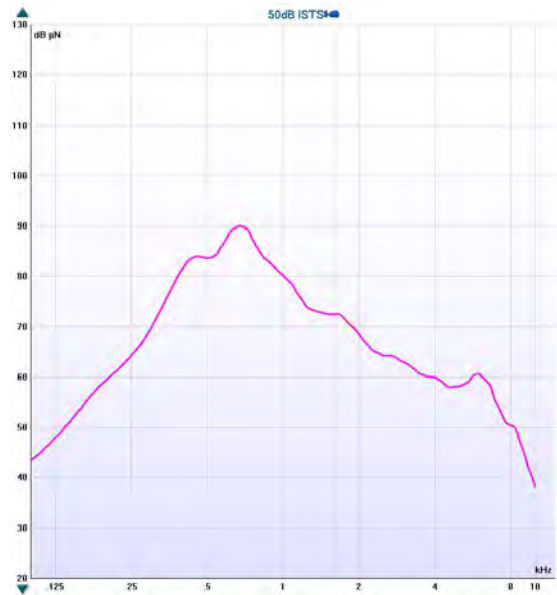


**Spectrogram showing the patented breaker signal
made using Spectro Temporal Modulation**

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What is the maximum gain we can achieve on abutment?

Measurements



What is the maximum gain we can achieve on abutment?

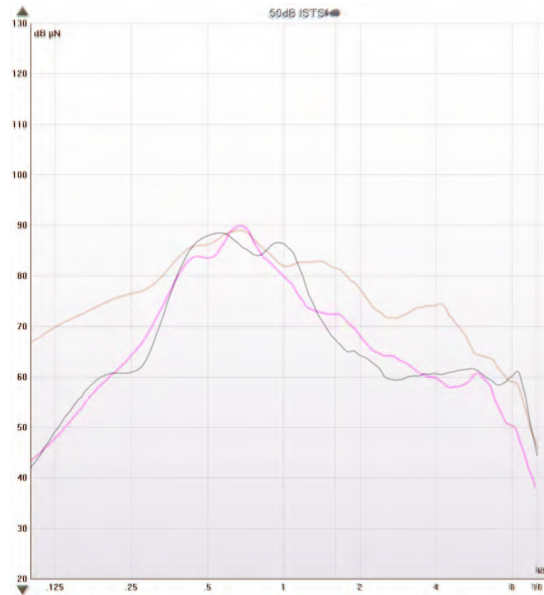
Measurements

Ponto 5 Mini

Based on feedback limit measured on abutment

Ponto 5 SuperPower

Based on feedback limit measured on abutment



The key elements of bone conduction sound

How are different solutions rating?

Audibility



**Signal
processing**



**Maximum
force output**



The key elements of bone conduction sound

Let's take a closer look at signal processing

Audibility



Signal processing



Maximum force output



Access the full 360° soundscape

OpenSound Navigator – more sound to the brain

Analyse



Balance



Noise removal



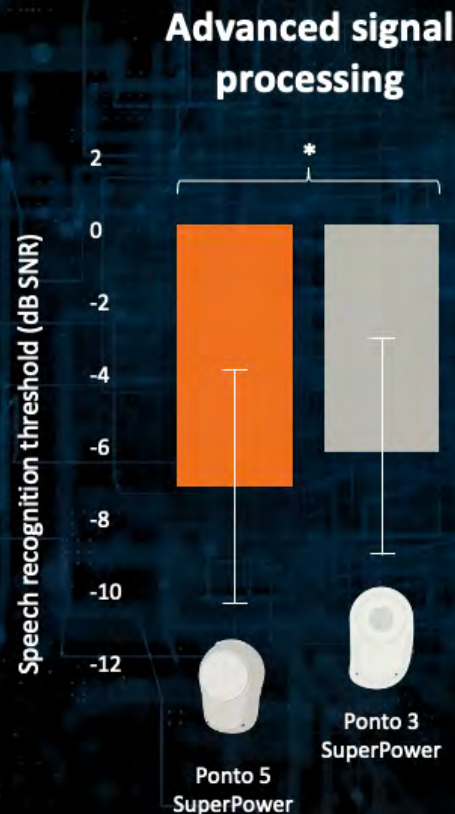
Proven to help you hear speech better even in noise

In a cross-over clinical study,
Ponto 5 SuperPower was shown to deliver

16% increased speech understanding

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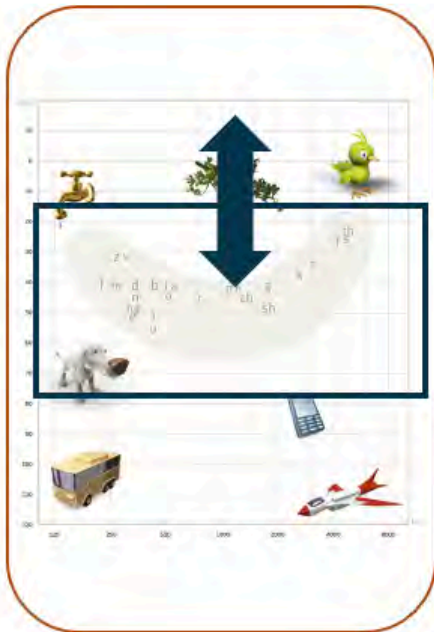
Data on File at Oticon Medical, Doc-00121116, Jan 2023



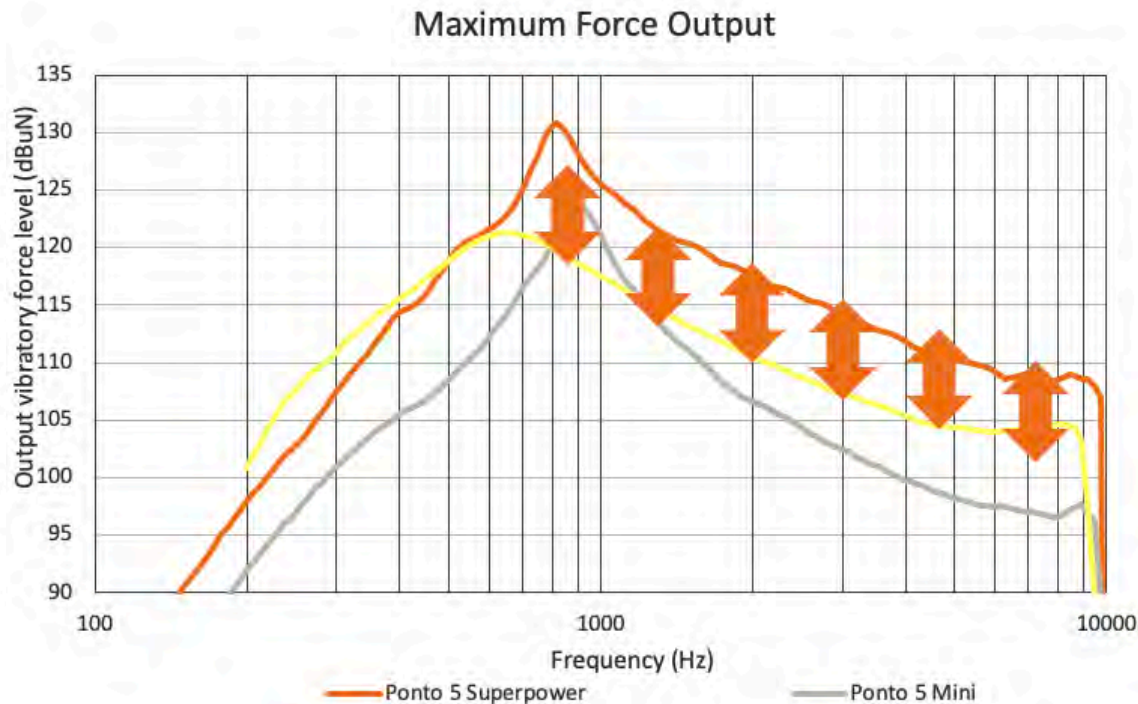
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The key elements of bone conduction sound

Audibility



Ponto is still the only abutment-level SuperPower device on the market



The key elements of bone conduction sound

How are different solutions rating?

Audibility



**Signal
processing**



**Maximum
force output**



This content is part of a presentation and is incomplete without context and an oral explanation

Clinical results - continued



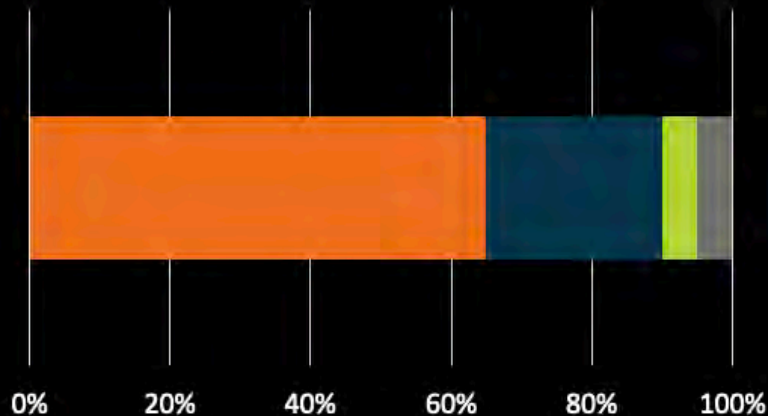
Oticon Medical
Kongebakken, Global headquarter, Copenhagen,
Denmark



Prof. Dr. Susan Arndt, Dr. Thomas Wesarg,
University Medical Center, Freiburg
Germany

In two studies, patients tried both the P3SP and the P5SP

We asked, "Which do you prefer"?



- Ponto 5 much better
- Ponto 5 somewhat better
- No preference
- Ponto 3 somewhat better
- Ponto 3 much better

"Localization is much better"

"Less background noise, less bothersome"

"Better in everyday situation"

"Much clearer, more pleasant sound"

"Feedback much better, can wear cap again"

"Feedback happens more rarely"

Patients overwhelmingly prefer Ponto 5 SuperPower

Preferred by patients

Patients show an **overwhelming preference** for **Ponto 5 SuperPower** when they try it – even after a short trial

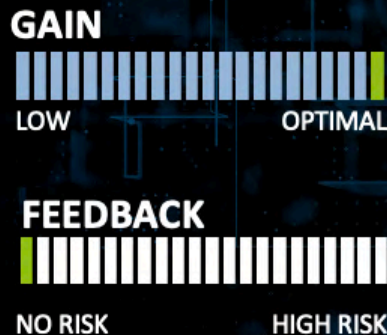


The proven
preference of
patients

Encourage patients to experience the Ponto 5 Family



Proven to
**help you hear
speech better**



Proven to
**provide more gain with
no audible feedback***

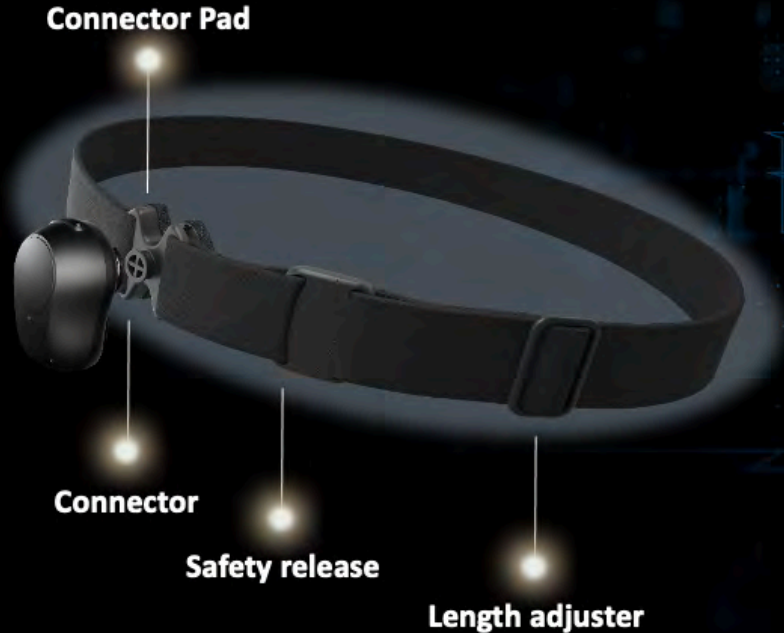


Proven to
**be preferred
by patients**

*When fitted according to recommendation
Data on file at Oticon Medical, Doc-00121116, 2023

Softband 5 – ideal for trials and children

Help your patients appreciate the power of the Ponto 5 SuperPower experience



Innovative design

- Impressive sound transmission due to new connector plate and Connector Pad design
- Quality design and comfortable materials for all day use
- Ideal for trialling the Ponto 5 SuperPower to access the open sound experience
- A long-term solution for paediatric patients

Softband 5

Ideal for trials and children



The perfect options for just the right fit

- Two adjustable sizes XS/S & M/L
- Unilateral and bilateral version
- In 8 different colours



- New Connector Pad



A variety of designs for unique customization





A world of connectivity

Right at their fingertips

Users can stay connected and empowered with

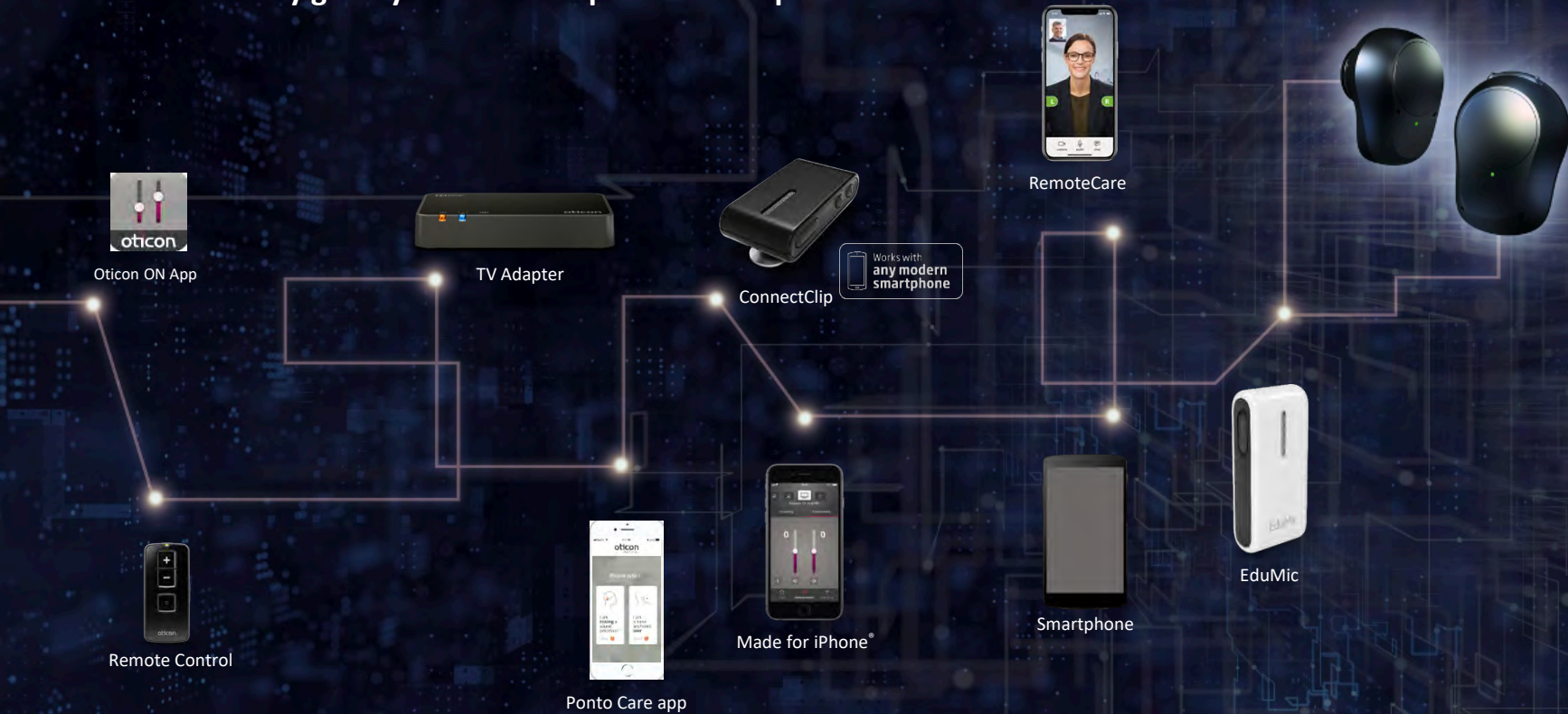
- Direct streaming
- Smart accessories
- Innovative technologies
- Dedicated apps

And meet the demands of everyday life



A world of connectivity

Ponto 5 Family gives you wireless open sound experience



Choose the Ponto system with confidence

Ponto is here for you with **proven solutions**
that can stand the test of time.



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Because
sound matters