

Ponto™ System

# Powerful sound to the brain

It's never been easier to empower more people



**oticon**  
MEDICAL

# Better sound. Efficient procedures. Proven results.

## Helping you deliver life-changing hearing to more people

Opening up a fuller world of sound to more people – that's what it's all about. It's why our bone anchored hearing solutions, procedures and services are based on ground-breaking research and technology. Making it easier to access treatment and provide great outcomes – every step of the process.

### Sound processing that supports cognitive processing

Our BrainHearing™ philosophy is about providing the brain with more sound – not unlike like traditional technologies do.

**Why?** Because research shows that the brain needs the full picture to make sense of sound.<sup>1,2</sup> This supports natural cognitive processes – which in turn helps reduce listening effort and mental load.<sup>3</sup> So users can feel more empowered, even in complex listening situations.

### Procedures that support you – so you can support more patients

We revolutionize bone anchored treatment by giving surgeons the option of truly minimally invasive procedures.

**Why?** To improve outcomes and the treatment process. And remove surgical hesitancy as a barrier to life-changing treatment.

## 6 reasons to choose Ponto – no reason to compromise

- Premium sound quality with BrainHearing benefits
- Minimal procedures with remarkable outcomes
- MRI with implant in place and minimal shadowing at 1.5T and 3T\*
- Easy Softband trial option before life-changing decision
- Renowned Ponto sound processor robustness and reliability
- Support made easy with RemoteCare



\*Non-clinical testing has demonstrated that the Ponto Implant System is MR Conditional. A patient with this device can be safely scanned in a static magnetic resonance field of 1.5T and 3T only in an MR system meeting the conditions stated in Ponto Implant System accompanying documentation.





# The Ponto System

– an easy path to great outcomes

Giving you and your patients intelligently designed solutions that stand the test of time. That's how we help you to help more people.

**How?** As part of the Demant Group, we're uniquely situated with one of the world's strongest research and development teams in hearing healthcare. In areas from cognitive hearing science to surgical processes – leading research guides everything we do.

“

*I can now rest my head back on the sofa  
without experiencing feedback.”*

Paul, Ponto 5 user



**Softband non-surgical solution**  
Ideal for trialing and pediatrics



**Ponto 5 SuperPower**  
**Ponto 5 Mini**



**Designed for the digital world**  
With seamless connectivity



**Implants and abutments**  
Perfectly suited for minimally invasive  
procedures



**MIPS and MONO**  
Minimally invasive  
procedures

**Precise fitting**  
Including follow-up care from anywhere



# Ponto 5 sound processors

Two sizes. Better fittings. No compromise.

An ideal sound processor gives users power where power is needed. With two sizes in the Ponto 5 family, there's no need to compromise between optimal power and small size. Now you can give your patients exactly what they need for their hearing loss – in some of the world's smallest percutaneous sound processors.

360° soundscape with  
OpenSound Navigator™

Specialized programs:  
Speech in Noise, Comfort, Music

Tamper-resistant  
battery drawer

Fit users with extra  
stable gain for optimal  
gain throughout the day

DSL BC and  
NAL-NL 1 BC

High extended  
bandwidth

## Powering the full open sound experience

The Velox S™ chip platform unleashes the groundbreaking sound quality of Ponto 5. With 1,200 million operations per second and ultra-fast noise reduction with up to 500 measurements per second.

### Next-level benefits

- Significantly improved speech understanding with OpenSound Navigator<sup>\*3,5</sup>
- Significantly less listening effort with OpenSound Navigator<sup>\*\*3</sup>
- Good hearing helps the brain stay fit – and helps avoid many other health problems<sup>6,7,8</sup>

## The SuperPower you've been waiting for

If your patients are ready for an upgrade, get ready for mind-blowing reviews. Let them try the new SuperPower on their current Ponto abutment or other compatible abutment system.

## Mini

Big sound in the world's smallest percutaneous sound processors

Fitting range up to 45 dB HL BC



Patient care from anywhere with Oticon RemoteCare

**SuperPower**  
Still the world's most powerful percutaneous abutment-level sound processors

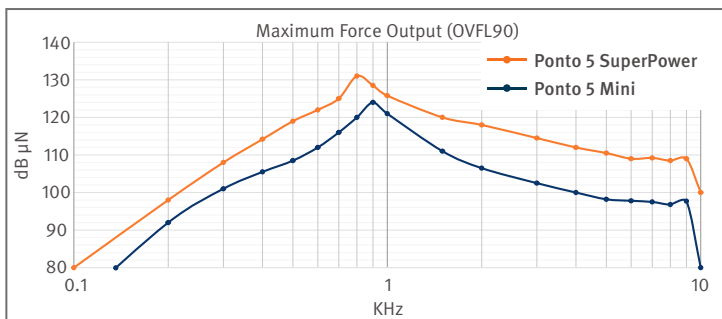
Fitting range up to 65 dB HL BC

Powerful Velox S chip platform

Prevents audible feedback<sup>†4</sup> with OpenSound Optimizer™

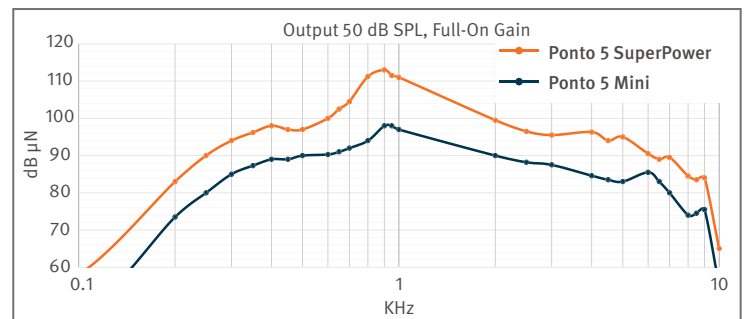
### Optimized output – better clarity

SuperPower output across the entire bandwidth provides access to an increased dynamic range.



### Uncompromised gain – better audibility

In quiet environments and for the soft sounds, both Ponto 5 Mini and Ponto 5 SuperPower deliver.



Figures show the Maximum Force Output (left) and Full-On Gain (right) of Ponto 5 SuperPower and Ponto 5 Mini measured on Skull Simulator according to IEC 60118-9:2019. See Product Information for more details.

\*Measured for the Ponto Mini style and Ponto 5 SuperPower style

\*\*Measured for the Ponto Mini style

†For prescribed fittings, according to best practice and during normal use



# Ponto 5 – Powerful sound to the brain

## 5 ways Ponto sets the standard



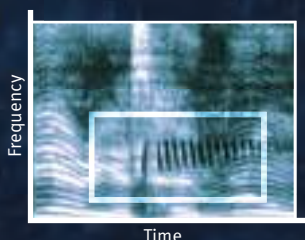
### No compromise on size or power

The world's smallest percutaneous sound processor? It's still a Ponto. The world's most powerful abutment-level sound processor? It's still a Ponto. With two power levels to choose from – and the smallest size across the board – you can provide more options to meet patient needs.



### Feedback? Fixed.

OpenSound Optimizer defies convention with a breakthrough approach – instead of just managing feedback, it analyzes amplified sound 56,000 times per second to detect and prevent audible feedback<sup>†</sup> before it occurs. This means you can fit users with more stable gain – without compromising on the dynamics of sound.<sup>4</sup>



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



### A world of connectivity and virtual care

Users can stay connected and empowered with smart accessories, innovative technologies and unique apps – like the Oticon RemoteCare app, which enables follow-up fittings from anywhere.

<sup>†</sup> For prescribed fittings, according to best practice and during normal use

\*Measured for the Ponto Mini style and Ponto 5 SuperPower style

\*\*Measured for the Ponto Mini style





## BrainHearing technologies with proven benefits

OpenSound Navigator has been proven to significantly improve speech understanding\* and reduce listening effort\*\* for users.<sup>3,5</sup>



## In sync with their surroundings

Instead of conventional directionality – which can leave users feeling cut off from the world – the groundbreaking OpenSound Navigator uses an always-open approach. It preserves speech and gives users 360° access to clear, high-quality sounds from all around them. This allows the brain to do its job as a natural filter – and lets users tune in to what they care about most.

## OpenSound Navigator – 3 steps in a split second



### 1: Analyze

Scans the 360° sound environment more than 100 times per second to identify and separate noise from speech.



### 2: Balance

Rapidly reduces the levels of loud noise coming from specific directions, while preserving speech.



### 3: Noise removal

Rapidly attenuates remaining diffuse noise, even between individual words.

# Minimally invasive treatments

– that change lives in a matter of minutes

Improving outcomes and streamlining treatment access – these goals drive us to develop better solutions for you and your patients. We also aim to support patients’ decision-making and help to remove surgical hesitancy as a barrier to life-changing treatment. The Ponto System offers minimally invasive procedures that can be performed under local anesthesia. All to help you offer patients reassuring options.

## Small procedures – huge benefits

Becoming a Ponto user has never been easier. The groundbreaking MIPS and MONO procedures offer excellent aesthetic outcomes, fast recovery and minimal complications – and most importantly, result in an improved quality of life.<sup>9,10,11</sup>

- **Minimally invasive procedures:** Suture-free, with a minor incision and less interference to tissue than other bone anchored surgical techniques to date
- **Minimizing post-op complications:** Minimal skin incision without scar formation around the site. Fast recovery with low need for skin-related aftercare treatment<sup>11</sup>
- **Tailor-made surgical components:** Supported by a dedicated surgical kit with components designed to provide tactility and surgical control, and to minimize post-op complications

98%

of all users report an  
increased quality of life after  
Ponto surgery<sup>11</sup>

in 95%

of follow-up visits no  
skin-related after-care  
treatment is required<sup>11</sup>

## Options to help you reach more patients



## The MONO drill and surgery kit – built for precision

Designed for efficient osteotomy preparation. Offering a unique parabolic drill design, premium materials, and in-built safety features for precise control.

\*For indications and patient selection criteria, please refer to Ponto Candidacy Guide, Surgical Manual and Surgical Manual Addenda.

**98%**  
implant survival rate with  
Ponto implants<sup>11</sup>

“  
*MONO helps reduce operative time, which is  
good for me and my patients.*”

Dr Lane Squires, Sacramento, CA



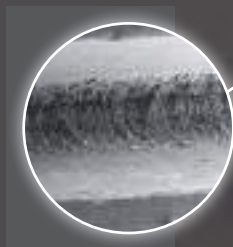
# Implants designed for optimal results

## Premium engineering sets the standard for stability

Ponto implants and abutments provide state-of-the-art solutions – with great stability from day one. And they're designed as part of the Ponto System to help you offer patients extra reassurance. For example, if a patient needs an MRI scan – the Ponto implant and abutment can safely remain in place.\* When new technology becomes available, patients can simply upgrade their sound processor to continue a great hearing experience. And with minimally invasive procedure options, excellent aesthetic outcomes, and easy implant removability – there's no reason to let surgical hesitancy get in the way.

### Best-in-class implant results

With a unique combination of Biohelix™ and the OptiGrip™ geometry, the Ponto BHX Implant is designed for stability. It combines macro geometry for high initial stability and micro and nano surface structure that promotes fast and strong bone formation.<sup>12</sup> This translates to excellent outcomes.



### Implant survival rate

A systematic literature review reporting on 10 years' experience with the Ponto System demonstrated an overall implant survival rate of 98%.<sup>11</sup>

### Superior pediatric implant results

In a study of pediatric patients ages 4–15 years, the use of laser-ablated titanium BHX implants resulted in superior survival rates of

# 96.6%

and excellent clinical outcomes compared with previous implant systems.<sup>13</sup>

“

*“MONO and Ponto 5 are innovations at the perfect time. They facilitate the surgical procedure and provide patients with the best possible hearing in the area of bone-anchored systems.”*

Prof. Dr Susan Arndt, Managing Consultant, ENT Hospital

## Abutments designed for simple, easy care

In 95% of follow-up visits, no skin-related aftercare treatment\*\* is required.

The Ponto abutment family is a proven, skin-friendly concept. A systematic literature review reporting on 10 years' experience with the Ponto System demonstrates a low need for skin-related aftercare treatment.<sup>11</sup>



“

*We have experienced excellent clinical outcomes using the BHX implant system. The pediatric population are now having comparable clinical outcomes to the adult populations. Fantastic news for any child and family considering bone anchored hearing implant solutions.”*

Dr Ann-Louise McDermott, Consultant Pediatric Otolaryngologist

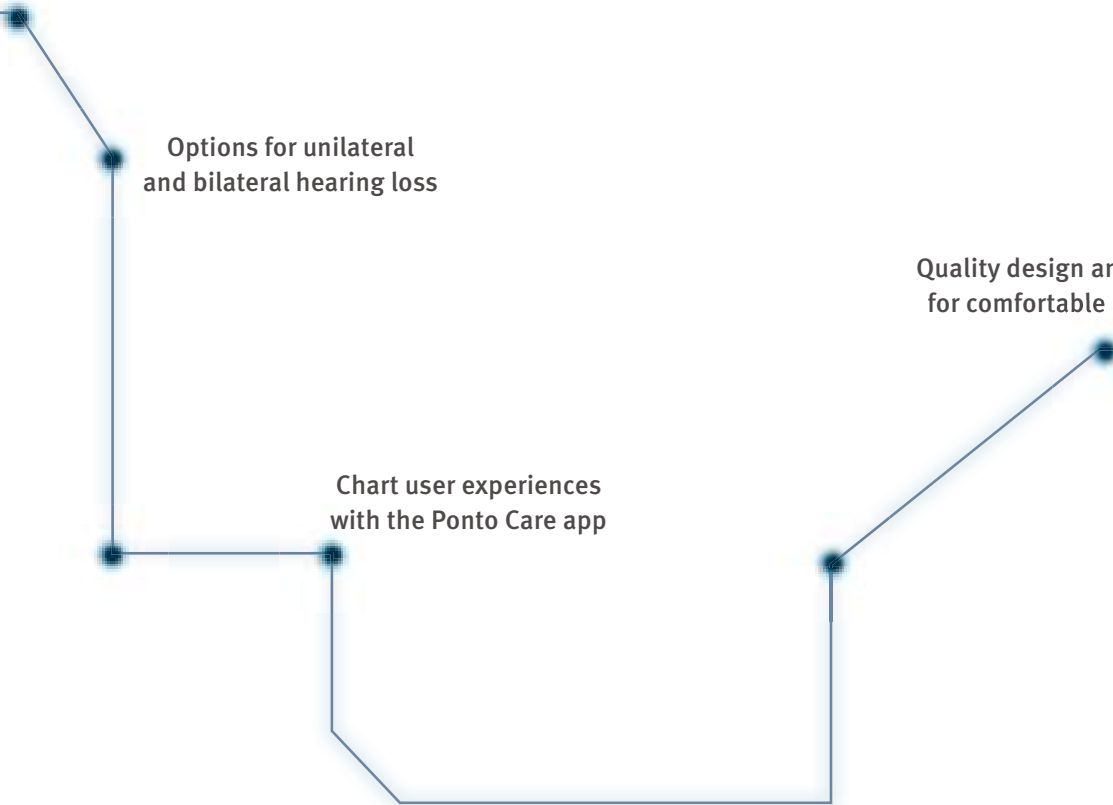
\* Non-clinical testing has demonstrated that the Ponto Implant System is MR Conditional. A patient with this device can be safely scanned in a static magnetic resonance field of 1.5T and 3T only in an MR system meeting the conditions stated in Ponto Implant System accompanying documentation.

\*\* Holgers score  $\geq 2$  indicates need for skin-related aftercare treatment.

# With a Softband trial – hearing is believing

A trial run is a great way to help patients appreciate the power of the Ponto experience. And a Softband makes that unique experience possible. Our innovative Softband 5 is comfortable and practical for both children and adults. It's a powerful way to start them on their journey to better hearing.


Encourage your patients to give Ponto a try on a Softband 5



Options for unilateral  
and bilateral hearing loss

Chart user experiences  
with the Ponto Care app

Quality design and materials  
for comfortable all-day use



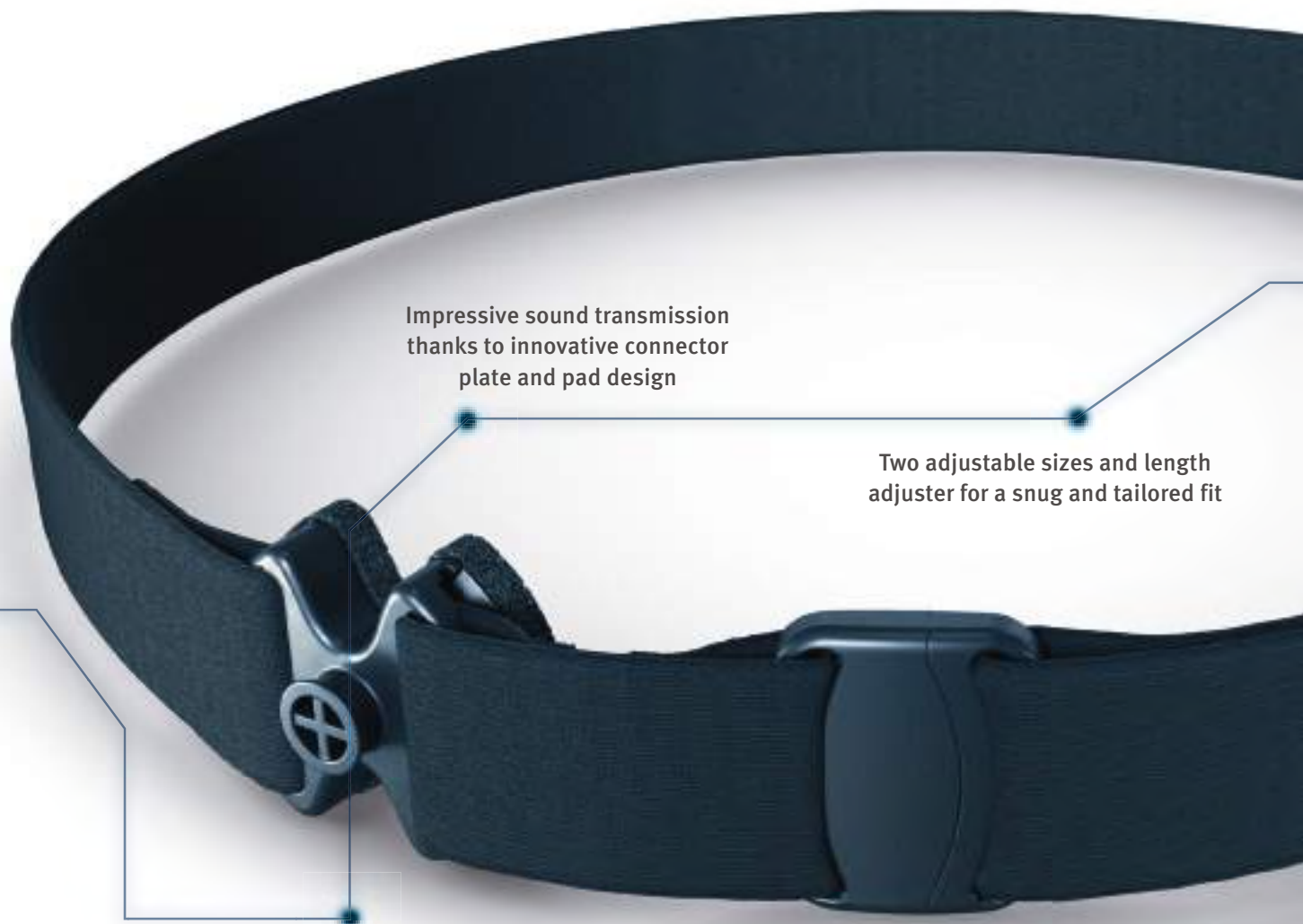
## For a super trial experience

For the best audiological outcomes and to minimize the skin-dampening effect, always consider using a Ponto 5 SuperPower processor in combination with a Softband 5.



## Snap on sound

Want to wear your sound processor on a cap or other headwear?  
Try the innovative SoundConnector™



Impressive sound transmission  
thanks to innovative connector  
plate and pad design

Two adjustable sizes and length  
adjuster for a snug and tailored fit

Wide selection of colors



## Trial data at your fingertips

Users can easily track and rate their experience with the Ponto Care app. So you can help them get the best experience.

# Helping children thrive with a fuller soundscape

## More small details – without losing the big picture

For children, getting early access to clear, high-quality sound is a cornerstone of speech and language learning. Yet, traditional sound technologies risk giving children access to too few or too many of the sounds around them. With the OpenSound technologies in Ponto 5, children get access to their full soundscape – including 360° speech – continually analyzed and optimally balanced. Giving them a great foundation for their own speech development.

## Fully immersed in sound – for fuller learning potential

Children learn and grow by absorbing all the everyday input of the world around them. That's called incidental learning – and having access to more sounds helps ensure they don't miss out. With Ponto 5, children get powerful, high-quality sound – helping them stay connected to life's opportunities.\*

## Superior pediatric implant results

When a child is ready to move to an implant,\*\* the Ponto System is ahead of the curve. In a study of pediatric patients ages 4–15 years, the use of laser-ablated titanium BHX implants resulted in superior survival rates of 96.6% and excellent clinical outcomes compared with previous implant systems.<sup>13</sup>





## Next-level pediatric benefits

Aiming to help children learn, grow and thrive with:

EduMic – for clear and stable access to a teacher’s voice

OpenSound Navigator and better speech understanding in noise<sup>14,15</sup>

Support for environmental awareness<sup>16</sup> and incidental learning\*

Quality design and materials for life’s big adventures

Parental peace of mind – including LED status light and tamper-resistant battery drawer

The most powerful abutment-level sound processor for Softband with high output across the entire bandwidth

“

*It’s like I’m not wearing a hearing aid. It feels like I don’t have one on and I can hear so much better.”*

Poppy, Ponto 5 Mini user

\* More than 80% of what children learn comes through incidental learning<sup>17</sup>. The OpenSound Navigator technology in Ponto 5 is a feature shown to support incidental learning in children with hearing aids.<sup>14,15</sup>

\*\* The placement of a bone anchored implant in children is subject to regulatory variation in different markets. For indications and patient selection criteria, please refer to the Ponto Candidacy Guide and Surgical Manual.



# Precise fitting – even from a distance

With Genie Medical BAHS fitting software, you get great flexibility and intuitive functionality to make efficient personal adjustments for every patient. It's based on the proven Oticon Genie, the benchmark of the hearing aid industry, with several million fittings worldwide. And with the RemoteCare platform fully integrated into the Genie Medical BAHS interface – you get all the tools you need in one place to confidently give patients the optimal fitting.

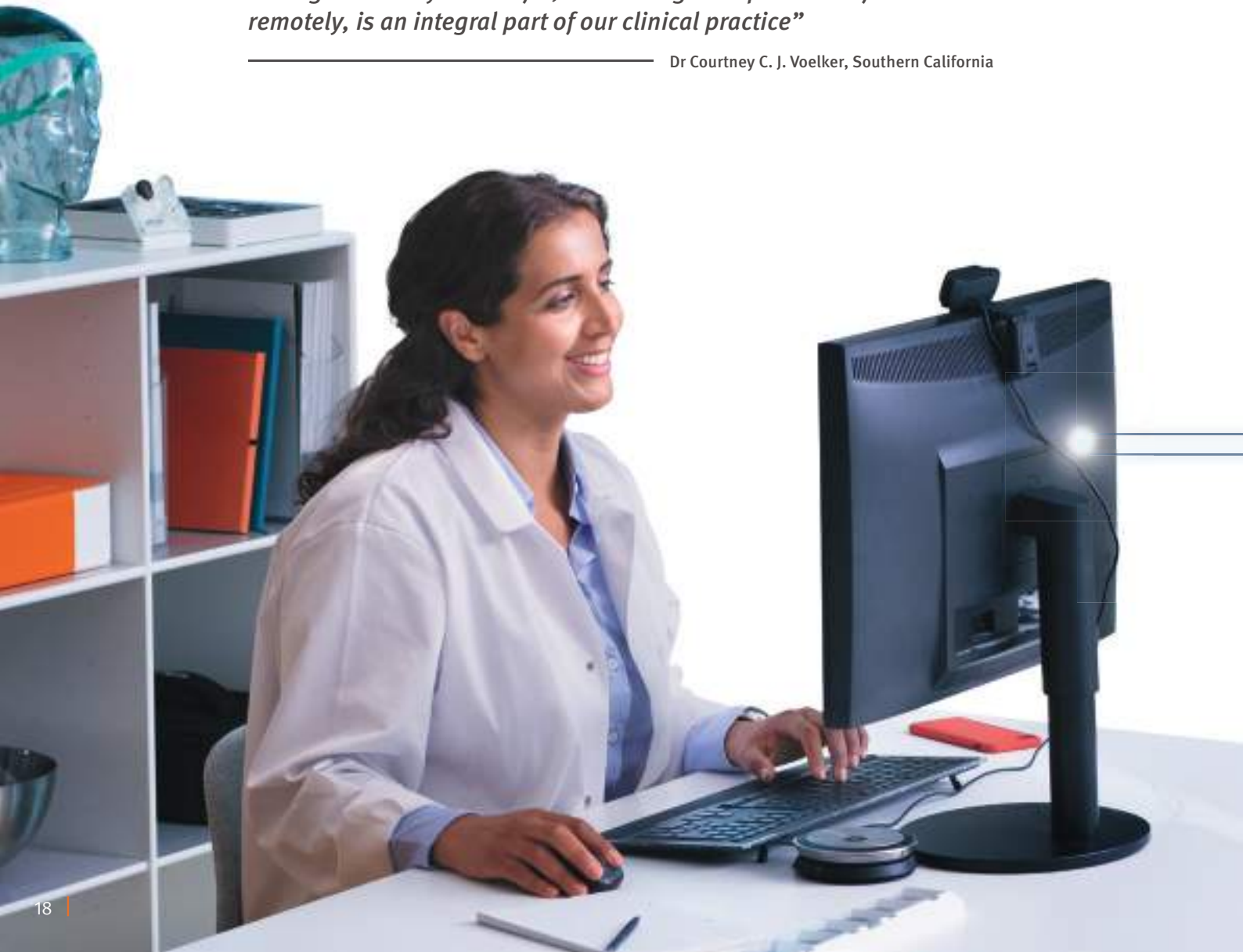
## Patient care from anywhere

You can extend your patient care with remote and convenient online appointments. With the Oticon RemoteCare platform and easy-to-use app, you can fit patients in the comfort of their own home – or in other sound environments that they'd like optimized.

“

*Having the ability to care for, and manage our patients' aftercare remotely, is an integral part of our clinical practice”*

Dr Courtney C. J. Voelker, Southern California



## Clinical efficiency and eHealth benefits with Oticon RemoteCare:

Fully integrated into the  
Genie Medical BAHS interface



Convenient option for  
fitting sound processor  
upgrades



Can improve efficiency  
and patient satisfaction



Make adjustments based on  
a patient's real-life situations

Patients can stay connected  
to you between office visits




# The future of connected hearing

Help users connect to all the good things in life







Ponto 5 is designed for the digital world – with accessories, apps and in-built technology to help users stay connected wherever life takes them. From hands-free phone calls to streaming TV or getting a remote check-up – users can easily connect and enjoy.

- **Oticon ON app**

Let's users discreetly adjust the volume, switch between programs, find their Ponto 5, access other devices and much more

- **ConnectClip**

Works with Bluetooth® technology and any modern smartphone to turn Ponto 5 into a hands-free headset.

- **Streaming accessories**

With Oticon accessories, users can stream sound from the TV, radio, landline phone and other devices directly to Ponto 5.

- **EduMic**

For streaming in a classroom setting, the easy-to-use EduMic gives users direct access to their teacher's voice using a wireless remote microphone.

## More opportunities in hearing healthcare

- **Ponto Care app**

Supports users to get the best experience with their Ponto 5 – from trying out a Ponto on a Softband to daily life with their new sound processor.

- **Oticon RemoteCare app**

The platform and app let users attend virtual appointments with their hearing healthcare professional for sound processor programming and adjustments.

*The Oticon ON app, Ponto Care app and Oticon RemoteCare app are available for download on the App Store and on Google Play.*



Apple, the Apple logo, iPhone®, iPad®, and iPod touch® are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Android™, Google Play, and the Google Play logo are trademarks of Google LLC.

# So small yet so strong

## When looks matter

The Ponto 5 family features the smallest bone anchored sound processors available – including the smallest SuperPower on the market. With a range of colors, and switchable skins and stickers, users can match their every style, personality, whim and occasion.

## Robust and reliable – designed for longevity

In spite of their tiny size, Ponto 5 sound processors deliver the state-of-the-art reliability, durability and product quality that have become synonymous with Ponto. Caregivers can even monitor the status of the processor with the LED indicator.

## Tried, tested and built for real life

Ponto sound processors have been extensively tested so you can be sure they meet the most stringent safety and quality standards, with an IP57 classification. We thoroughly test them in a wealth of different reliability tests. From humidity and drop tests to compatibility tests, the results prove that Ponto supports an active lifestyle – all day, every day.



“

*She feels a better quality of hearing like she's hearing naturally and not through an aid.”*

— Amy, mother of Poppy, Ponto 5 Mini user

## References

- <sup>1</sup> O'Sullivan, et al. (2019). Hierarchical Encoding of Attended Auditory Objects in Multi-talker Speech Perception. *Neuron*, 104(6), 1195-1209.
- <sup>2</sup> Puvvada, K. C. et al. (2017). Cortical representations of speech in a multi-talker auditory scene. *Journal of Neuroscience*, 37(38), 9189-9196.
- <sup>3</sup> Data on file at Oticon Medical - Clinical study BC102.
- <sup>4</sup> Data on file at Oticon Medical.
- <sup>5</sup> Data on file at Oticon Medical – Clinical study BC109.
- <sup>6</sup> Amieva, H., et al. (2018). Death, depression, disability, and dementia associated with self-reported hearing problems: a 25-year study. *The Journals of Gerontology: Series A*, 73(10), 1383-1389.
- <sup>7</sup> Lin, F. R., et al. (2011). Hearing loss and incident dementia. *Archives of Neurology*, 68(2), 214-220.
- <sup>8</sup> Lin, F. R., et al. (2012). Hearing loss and falls among older adults in the United States. *Archives of internal medicine*, 172(4), 369-371.
- <sup>9</sup> Caspers CJ, et al. (2021). A clinical evaluation of minimally invasive Ponto surgery with a modified drill system for inserting bone anchored hearing implants. *Otol Neurotol*. 1;42(8): 1192-1200.
- <sup>10</sup> Holmes S, et al. (2021). Tissue preservation techniques for bone anchored hearing aid surgery. *Otol Neurotol*, 1;42(7): 1044-1050.
- <sup>11</sup> Lagerkvist H, et al. (2020). Ten years of experience with the Ponto bone anchored hearing system – A systematic literature review. *Clin Otolaryngol*. 45(5):667-680.
- <sup>12</sup> Shah, F A, Johansson, M L, Omar, O, Simonsson, H, Palmquist, A, Thomsen, P. (2016). Laser-modified surface enhances osseointegration and biomechanical anchorage of commercially pure titanium implants for bone-anchored hearing systems. *PLoS One*, 11(6).
- <sup>13</sup> Osborne, M.S., et al., Clinical evaluation of a novel laser-ablated titanium implant system for bone anchored hearing systems in a paediatric population and the relationship of resonance frequency analysis with implant survival. *Otol Neurotol*, 2021. Accepted for publication.
- <sup>14</sup> Ng, E., et al (2019) Improved speech understanding with less effort in children: An OpenSound Navigator™ study. Oticon Whitepaper.
- <sup>15</sup> Ng, E. (2017) Benefits of OpenSound Navigator™ in children. Oticon Whitepaper.
- <sup>16</sup> Hoen, Michel, et al. (2018) Oticon Medical BrainHearing™ – Helping the brain make sense of sound, Oticon Medical Whitepaper 183434.
- <sup>17</sup> Knoors, M., & Marschark, M. (2015). Educating deaf learners, 547-572.

Not all hearing loss patients are candidates for a bone anchored solution. All surgical procedures include an element of risk, and it is impossible to guarantee success. Outcomes may vary. Testimonials represent the opinion of the concerned individuals only and may not be the experience of others. Not all products are available in all markets. Product availability and indications are subject to regulatory approval in respective markets.



## To learn more

contact your Oticon Medical representative or visit [www.oticonmedical.com/P5SP](http://www.oticonmedical.com/P5SP)



## Because sound matters

Oticon Medical is a global company in implantable hearing solutions, dedicated to bringing the power of sound to people at every stage of life. As part of the Demant Group, a global leader in hearing health care with more than 16,500 people in over 30 countries and users benefitting from our products and solutions in more than 130 countries, we have access to one of the world's strongest research and development teams and the latest technological advances and insights into hearing care.

Our competencies span more than a century of innovations in sound processing and decades of pioneering experience in hearing implant technology. We work collaboratively with patients, physicians and hearing care professionals to ensure that every solution we create is designed with user needs in mind. We have a strong passion to provide innovative solutions and support that enhance quality of life and help people live full lives – now and in the future. Because we know how much sound matters.



### Manufacturer:

**Oticon Medical AB**  
Datavägen 37B  
SE-436 32 Askim  
Sweden  
Phone: +46 31 748 61 00  
Email: [info@oticonmedical.com](mailto:info@oticonmedical.com)

**Oticon Medical**  
LLC 580 Howard Avenue,  
Somerset, NJ 08873 USA  
Phone: 888-277-8014  
Fax: 732-868-6949  
[info@oticonmedicalusa.com](mailto:info@oticonmedicalusa.com)