Optimizing Surgical Care

Introducing the Nucleus® SmartNav System

Surgical Care solutions are part of Cochlear Connected Care
Real-time insights during surgery

Cochlear™ Surgical Care solutions are designed to improve the surgical experience for you, and enhance benefits for patients, through intraoperative tools and insights.

The award-winning Nucleus® SmartNav System provides wireless, real-time, actionable insights to support navigation during cochlear implant surgery, delivering added assurance that surgery was successful, and the electrode was properly placed.¹

This iPad-based solution and off-the-ear surgical processor provide an intuitive workflow to help you in surgery, giving you real-time feedback for in-theatre decision-making around angular depth and speed of insertion.²-⁷

Wireless connectivity, automated implant registration, and intuitive design deliver a seamless workflow in the operating room.⁸

Data can then be directly imported into Custom Sound® Pro fitting software to support MAP creation.⁹

Nucleus SmartNav intraoperative metrics:

- **Placement Check** – provides valuable information on final electrode placement and is designed to reduce the need for intraoperative imaging post electrode insertion.⁷,⁸

- **Angular insertion depth** – provides real-time measurement of angular insertion depth and final electrode position.³-⁶

- **Speed of insertion** – provides feedback on speed and consistency of the electrode insertion.²-⁴

- **Impedance** – provides assurance that the device is operating as intended, prior to leaving the operating room.¹,¹⁰

- **Advanced and AutoNRT® measurements** – Nucleus SmartNav includes the option to use Advanced NRT for obtaining neural response telemetry thresholds, providing flexibility in settings for optimal measurement.⁸,¹⁰

- **Electrical Stapedius Reflex Threshold (eSRT)** – confirms nerve response to electrical stimulation in order to establish stimulation thresholds.⁸,¹⁰

For more information visit www.cochlear.com/us

*The angular insertion depth function is disabled when the Nucleus SmartNav System is used with a perimodiolar electrode.
Hear now. And always

Cochlear is dedicated to helping people with moderate to profound hearing loss experience a world full of hearing. As the global leader in implantable hearing solutions, we have provided more than 650,000 devices and helped people of all ages to hear and connect with life’s opportunities.

We aim to give people the best lifelong hearing experience and access to next generation technologies. We collaborate with leading clinical, research and support networks to advance hearing science and improve care.

That’s why more people choose Cochlear than any other hearing implant company.

References