The MultiWave™ Platform

Media Backgrounder

The importance of customised pain

Pain is dynamic and every patient is unique. The MultiWave™ Platform offers personalised spinal cord stimulation (SCS) therapy and pain relief using waveforms that are unique to each individual. Each waveform can be precisely targeted using the Illumina 3D™ Algorithm software and delivered through a system that offers people with chronic pain full access to full body MRI scans, which is important if someone with an SCS device needs to undergo an MRI to diagnose an illness for example.

What is The MultiWave™ Platform?[1,2]

The MultiWave™ Platform is capable of delivering a variety of waveforms in one single SCS device. Alongside offering a variety of waveforms, MultiWave™ is designed to offer an option with smooth paraesthesia (a tingling sensation) or without perception (no tingling sensation). Boston Scientific is the only SCS manufacturer to offer MultiWave™ technology.

What are the advantages of the MultiWave™ Platform?

Every patient is unique and every pain pattern for people living with chronic pain is distinctive to the individual, meaning having flexibility to deliver pain relief is critical to ensure pain management is personal. The MultiWave™ Platform gives people the possibility to change the pulse widths or frequency so the stimulation delivered can be optimised to their needs.

Within a single device, MultiWave™ offers the flexibility of multiple waveforms for customised SCS therapy including the following:

Illumina 3D™ for precise pain targeting

- Leads exist in a complex 3D environment and Illumina 3D™ is the only system designed to navigate this
- This has led to better outcomes for people living with chronic pain. [3]
- Illumina 3D™ is designed to enable more precise targeting and has been proven to provide 70% better low back pain relief than previous systems.[3]

Prism 3D™ for deeper penetration of nerve fibres

- Engineered to ensure more coverage of nerve fibres, including deeper nerves.
- Prism 3D™ utilises the device's ability to segment current across the lead to focus stimulation in a smaller and deeper area for unmatched therapeutic flexibility.

Whisper 3D™ for higher rate stimulation

- Whisper 3D™ kilohertz stimulation between 1,000 and 1,200 Hz is designed to be delivered to a precise neural target using the Illumina 3D™ algorithm.

Burst 3D™ for burst stimulation

- Intermittent burst stimuli delivered using the Illumina 3D™ algorithm with neural targeting.
- Burst 3D™ offers 2-7 pulses per packet and pulse widths up to 1000µs.

Media contact

Rosie Ireland
Corporate Communications
Specialist Europe
Boston Scientific
+44 7585 403359
rosie.ireland@bsci.com

References

1 Hornberger et al. Rechargeable Spinal Cord Stimulation Versus Nonrechargeable System for Patients With Failed Back Surgery Syndrome: A Cost-Consequences Analysis Clin J Pain 2008;24:244-252
2 Berg, A. RELIEF: A Prospective Global Registry Study. NANS 2015, Las Vegas. Note: Clinical study results may not necessarily be indicative of clinical performance. Results in other studies may vary
3 Boston Scientific LUMINA data presented at the 19th annual meeting of the North American Neuromodulation Society

NM-487712-AA NOV2017