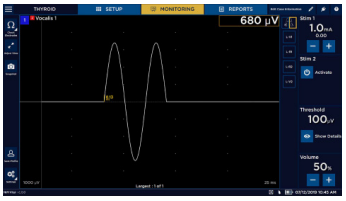
Medtronic

NIM Vital™ system with NerveTrend™ technology

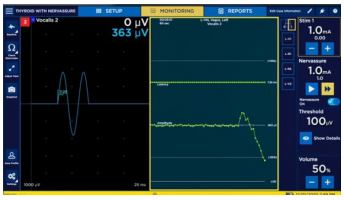
The NIM Vital™ system is the only nerve monitoring platform with NerveTrend™ technology.
This powerful combination helps you reduce recurrent laryngeal nerve (RLN) injury and significantly decreases the need for a staged thyroidectomy when compared to i-IONM mode.[1]

Intermittent monitoring (i-IONM)



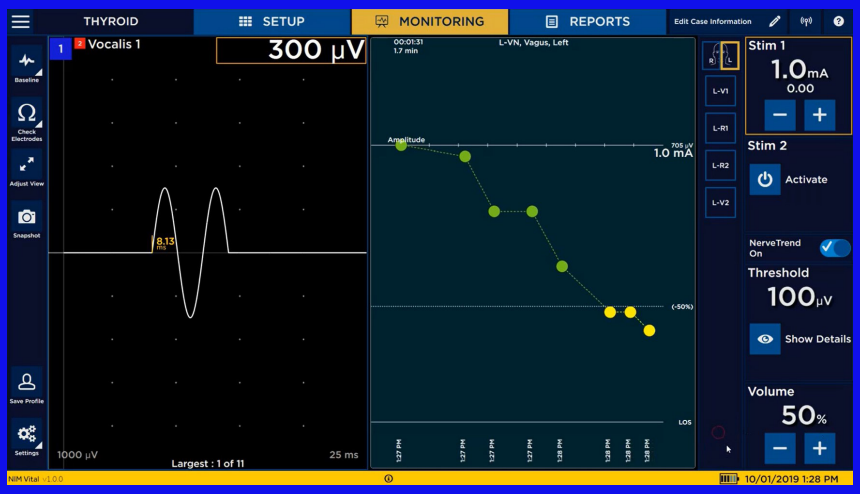
The stimulator probe helps to locate the nerve during intermittent monitoring

NIM Nerveassure™ technology



The APS™ electrode performs automatic stimulation during continuous monitoring

NIM NerveTrend™ technology



The stimulator probe enables manual trending during intermittent monitoring

NIM NerveTrend™ enables nerve condition tracking throughout a procedure, even when using intermittent nerve monitoring.

Standard i-IONM is useful for:

- Nerve mapping or identification (RLN and EBSLN)
- Prognostication of nerve injury
- Distinguishing the type of nerve injury once occurred[2,4]:
  - I - Segmental
  - II - Global

Standard i-IONM helps you diagnose nerve injury once it happens, but does not enable prevention.

NIM NerveTrend™ technology:

- Helps you reduce RLN injury and significantly decrease in the need for a staged thyroidectomy when compared to i-IONM mode[1]
- Alerts you when the nerve is at risk of injury
- Helps you understand the condition of the nerve by giving you more information real-time
- Green, yellow and red status bars provide visual information making monitoring nerve function and interpreting EMG trends easier than ever.[3]

Scan here to learn more about the benefits of NIM Vital™ with NerveTrend™ technology.

References

1. Barczyński M. Clinical Validation of NerveTrend™ vs. Conventional i-IONM Mode of NIM Vital in Prevention of Recurrent Laryngeal Nerve Events During Bilateral Thyroid Surgery: A Randomized Controlled Trial. Medtronic-sponsored research. Data on file.
2. Schneider R, Randolph GW, Barczynski M, Dionigi G, Wu CW, Chiang FY, Machens A, Kamani D, Dralle H. Continuous intraoperative neural monitoring of the recurrent nerves in thyroid surgery: a quantum leap in technology. *Gland Surg*. 2016;5(6):607–616.
3. Design Verification: NIM 4.0 software system verification Protocol #10918586DOC; NIM Vital Claim Matrix.
4. Randolph et. al Electrophysiologic Recurrent Laryngeal Nerve Monitoring During Thyroid and Parathyroid Surgery: International Standards Guideline Statement. *The Laryngoscope 2011*. Pg.11

The NIM Vital™ system does not prevent the surgical severing of nerves. If monitoring is compromised, the surgical practitioner must rely on alternate methods, or surgical skills, experience, and anatomical knowledge to prevent damage to nerves

Rx only. Refer to product instruction manual/package insert for instructions, warnings, precautions and contraindications.

For further information, please call Medtronic ENT at 800.874.5797 or consult Medtronic's website at **medtronicent.com**.

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