



# NVM5® for XLIF®



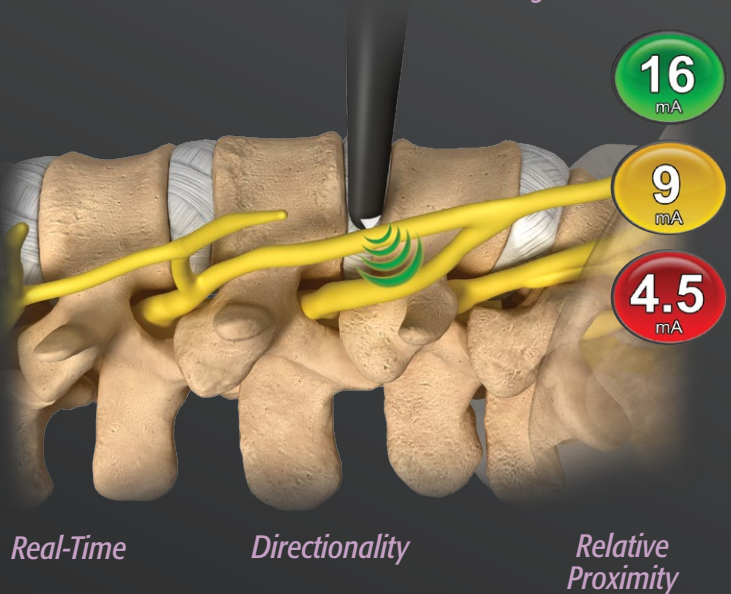
## Advanced Nerve Detection – Real-Time, Directional Feedback

### LEADERSHIP IN NEUROMONITORING

- NVM5® is the only clinically validated neuromonitoring system for lateral approaches to the spine.
- Discrete Thresholds – NVM5 delivers discrete thresholds, enabling the surgeon to assess proximity to the nerve in the lumbar plexus.
- Directionality – XLIF® Dilators' directionality provides nuanced information via precise vectoring of the stimulation electrode within the lumbosacral plexus.
- Relative Proximity – Using discrete thresholds, the NVM5 aids the surgeon in assessing how close the XLIF Dilator is to the nerve tissue.
- Real-Time – Using its patented Hunting Algorithm, the NVM5 stimulates five times per second, delivering discrete, directional, and relative proximity data to the surgeon in real-time!
- Surgeon-Driven – The surgeon controls stimulation from the sterile field – without delay, aiding in efficiency in the O.R.

Discrete Thresholds

Surgeon-Driven



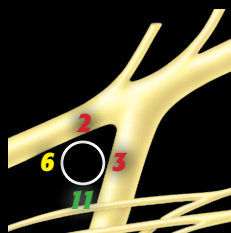
Discrete, real-time directionality and relative proximity to nerves are critical to differentiate between favorable or unfavorable XLIF Dilator placement.

### NUVASIVE® NEUROMONITORING

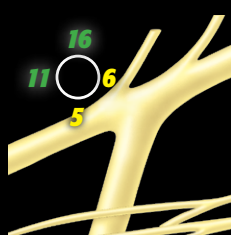
#### Dilator Posterior to Nerve

- Identification of unfavorable XLIF Dilator placement can be aided by NVM5.
- Using discrete thresholds, real-time directionality, and relative proximity information, the NVM5 helps guide the surgeon to favorable XLIF Dilator placement.

Unfavorable Position



Favorable Position

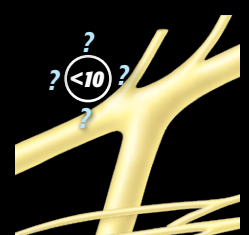
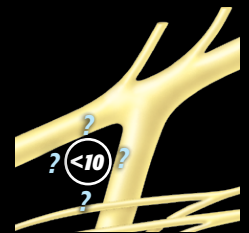


#### Dilator Anterior to Nerve

- Favorable XLIF Dilator placement as identified by NVM5.

### TRADITIONAL NEUROMONITORING

- Traditional neuromonitoring would provide the same reading for these two dilator positions.
- Without discrete real-time directionality and relative proximity nerve information, traditional neuromonitoring may not be able to differentiate between a favorable and unfavorable dilator placement.
- Unfavorable dilator placement may cause excessive retraction and could correlate to potential nerve injury.



## XLIF® DILATORS FOR NVM5®

One of the most fundamental aspects of XLIF surgery is the use of the XLIF Dilators. When used with the NVM5 system, XLIF Dilators offer the potential for the ideal approach to the disc space, minimizing soft tissue disruption via communicating nerve proximity and real-time directionality.



## REAL-TIME DIRECTIONALITY

In the XLIF mode of NVM5, the stimulus is applied via the stimulation clip at the stimulation interface of the XLIF Dilators, which are insulated except for a stimulation electrode at the distal tip. This stimulation electrode continuously emits the stimulus while the EMG electrodes on the innervated muscle groups monitor for a response.

### KEY BENEFITS:

- Using the electrode position indicator at the top of the dilator, the surgeon can track the dilator direction throughout the transpsoas approach and re-direct accordingly at any time.
- As the dilator rotates, the EMG values change in accordance with the proximity to the nerve.
- NVM5 enables 360°, real-time feedback during XLIF.



