

UNLEASH™

“The SENTIO™ MMG technology is a class leader in its simplicity, reliability, and ease of use.”

“The VIPER PRIME® System allows for straightforward pedicle screw insertion in the lateral position, without dealing with cumbersome K-wires.”



Dr. Ernest Wright, MD

 **DePuy Synthes**
PART OF THE JOHNSON & JOHNSON FAMILY OF COMPANIES

UNLEASHED: Single Position Lateral featuring SENTIO™ MMG & VIPER PRIME® Screw System

Dr. Ernest Wright, MD
Neurosurgeon, Howell Allen Clinic | Nashville, TN

Patient History:

- 75-year-old woman
- Presenting in a wheelchair and tearful due to a combination of debilitating axial back and radicular leg pain
- Managed unsuccessfully with narcotic pain medication for 2+ years
- Imaging revealed a mobile grade 1 L4/5 spondylolisthesis

Surgical Intervention: L4-L5 Direct Lateral Interbody Fusion with Percutaneous Posterior Fixation utilizing the UNLEASH™ Lateral Procedural Solution

“The combination of the INSIGHT® Lateral Retractor, SENTIO™ MMG, and VIPER PRIME® Screws empowers surgeons to deliver exceptional patient outcomes via a single position minimally invasive approach.”

- INSIGHT™ Lateral Access System
- SENTIO™ MMG
providing simple, reliable identification of the lumbar plexus
- COUGAR® LS Lateral Cage System
- VIPER PRIME® Screws
performed single position, k-wireless, percutaneous pedicle screw fixation

Outcome Data (6 months post-op results):

- Total Case Duration: 75 minutes, 45mL blood loss
- Patient had immediate, complete relief of her preoperative pain
- Discharged home on POD#1
- Patient returned at 1 and 3 months with complete pain relief
- Completely weaned from her chronic narcotic pain medication



SENTIO™ MMG is an IONM device that provides information directly to the surgeon to help assess objective neurophysiologic status in real-time by measuring and comparing MMG (mechanomyography) signals throughout a surgical procedure.

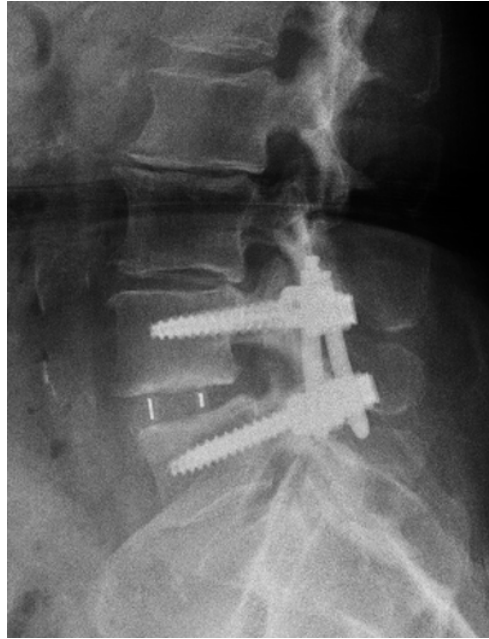
Why SENTIO MMG?

- Nerve mapping and localizing the peripheral nerve as well as creating directionality is of the utmost importance in lateral surgery
- MMG delivers higher sensitivity and specificity than EMG 1
- Unlike EMG signals, MMG signals are not affected by electrical noise in the OR
- Does not require needles or anesthesia
- Surgeon driven and controllable
- Cost efficient - more affordable than EMG

Pre-Op Images:



Post-Op Images:



Dr. Ernest Wright is presenting on behalf of DePuy Synthes Spine. His presentation reflects the opinions of the individual presenter, and the steps described may not encompass the complete

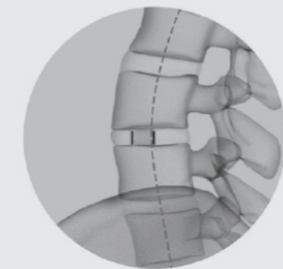
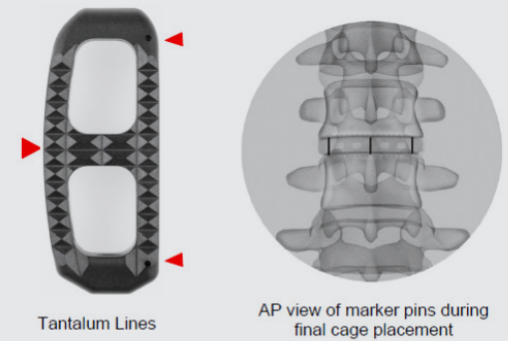
steps of the procedure. Additionally, other surgeons may prefer different techniques, approaches, etc., as individual surgeon experience in his/her clinical practice, as well as patient needs, may dictate variation in procedure steps.

Accordingly, results from any case studies reported in this presentation may not be predictive of results in other cases. Before using any medical device, review all labeling, including without limitation; the Instructions For Use (IFU), and relevant package inserts with particular attention to the indications, contraindications, warnings and precautions, and steps for use of the device(s).

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1. SENTIO Nerve Distance Whitepaper. 2/14/2020. 095489-180720 DSUS/EMEA

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The **COUGAR® LS Lateral Cage System** consists of carbon fiber reinforced PEEK (CFRP) cages.

- *Self-distracting tip: Allows for simplified cage insertion*
- *Bullethead nose: Facilitates streamlined insertion*
- *Pyramidal teeth: Provide resistance to migration*
- *Radiolucent cage with full length tantalum wire markers: Allows visualization of cage placement*



The **VIPER PRIME® System** is a technique for percutaneous pedicle screw placement that enables surgeons to target pedicles and insert screws in one single instrument pass.