



## Awake TLIF- ViviGen® MIS Cellular Bone Matrix and Delivery System & VIPER PRIME™ Screw System

**Dr. Vijay Yanamadala**

Hartford Health Care

Westport, CT

“The combination of ViviGen® MIS and VIPER PRIME™ Screw System allows for the precise and efficient treatment in my awake fusions when both are of the essence.”

### Patient History:

- 82 year-old female
- L4-L5 Spondylolisthesis
- Completely debilitated, struggling to stand or walk short distances without assistance
- History of adverse reactions to general anesthesia
- Tried multiple conservative treatments with no success
- Minimal to no relief with PT

### Surgical Intervention:

#### L4-5 MIS Awake Laminectomy and Fusion

- VIPER PRIME™ Screws: Posterior instrumentation
- ViviGen® MIS Cellular Bone Matrix and Delivery System - Fast and controlled bone graft delivery with tactile feedback
- Sentio™ MMG allowed for screw stimulation where traditional intraoperative neuromonitoring wasn't feasible

### Pre-Op Images:



## Intra & Post-Op Images:



## Outcome Data:

- No longer needs assistive devices for walking
- No leg or back pain at all
- Opioid-free pain management after surgery
- Fully recovered after a few weeks



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1. DePuy Synthes. Comparison of Graft Preparation and Graft Delivery Performance Between the ViviGen MIS Graft Delivery System and Bone Graft Funnel. 2021. #103764171209389-220412 DSUS

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### ViviGen® MIS Cellular Bone Matrix and Delivery System

*This procedural offering provides a complete bone grafting and delivery solution for surgeons performing minimally invasive procedures. By providing pre-filled cannulae and sterile packaged delivery dispenser, surgeons are offered a system that is 310% faster than traditional bone graft delivery methods<sup>1</sup>.*



*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.*



*SENTIO™ MMG is intended for use in surgical procedures to assist in locating and mapping motor nerves through the use of mechanomyographic (MMG) signals and electrical stimulus of nerves. The device provides information directly to the surgeon to help assess a patient's neurophysiologic status by measuring and comparing MMG signals throughout a surgical procedure*