THE CLINICAL AND ECONOMIC BENEFITS OF MINIMALLY INVASIVE SURGERY (MIS)

Minimally invasive fusion techniques may generate **COST SAVINGS** for hospital vs traditional open surgery. Cost savings can be driven mainly by:

- **SHORTER HOSPITAL STAYS**
- **REDUCED BLOOD LOSS**
- **FEWER COMPLICATIONS**

While offering a **COMPARABLE FUSION RATE** to traditional open surgery, MIS results in:

- **LESS DISABILITY AND PAIN**

Traditional **OPEN** lumbar surgery may be associated with limitations including:

- **SUBSTANTIAL PERIOPERATIVE BLOOD LOSS**
  - Increased need for blood transfusions
- **PROLONGED HOSPITAL STAY**
  - **ADJACENT SEGMENT DISEASE AND DEGENERATION**
  - Requiring additional treatment after spinal fusion surgery

Talk to your Medtronic Sales Representative to learn more about the economic benefits of minimally invasive surgery.
There are a few deficiencies reported with minimally invasive spine surgery, such as longer fluoroscopy imaging and operating times, and a surgeon learning curve. Associated risks include transitioning to a conventional open procedure, neurological damage, damage to the surrounding soft tissue, and instrument malfunction such as bending, fragmentation, loosening, and/or breakage (whole or partial).