

dissection and trajectories with greater surety, often yielding a better outcome resulting in fewer hospital days and a lowered medical cost.

Nick Shamie, MD, Co-Director of UCLA Comprehensive Spine Center: Minimally invasive surgery in my mind is trying to perform a surgery through the smallest incision possible, with the least amount of injury or collateral damage to the surrounding tissues...but also without jeopardizing safety or adequate treatment for the patients. In some cases, minimally invasive surgery requires a several inch incision. I have seen cases where a patient has been treated with "minimally invasive" techniques through a few millimeter incision and is not any better or in some cases even worse than preop; this is an example of stretching the indications of minimally invasive surgery.

Christopher Silva, MD, Rockford (III.) Spine Center: Minimally invasive spinal surgery (MISS) is loosely defined as any spinal surgery that attempts to minimize tissue damage caused by the surgical approach. MISS is therefore a term attached to notate the modification of a surgical approach for a given spinal procedure, as opposed to significantly modifying other aspects of a given procedure. Therefore, while the specific surgical approach differs between traditional, open surgery and MISS, the end goals of both techniques are the same.

Open spinal surgery relies significantly on direct visualization, by the surgeon, of the spinal elements, and variable manual sensory feedback of instrument response against bone and soft tissue resistance. Minimally invasive surgery, in general, differs in that the techniques rely on limited direct visualization and more dependency upon real time interpretation of fluoroscopy, particularly when instrumentation is inserted.

Risks do vary among procedures as MISS does not necessarily have lower risks compared to more traditional approaches. Although there are advantages of MISS in experienced hands, the long term outcomes for these modified approach procedures are not known to be substantially better than traditional approaches.

There has been a significant increase in available technologies that allow surgical approaches to the spine to be performed with less damage to the surrounding tissues. Some of these techniques are generally established while others are quite controversial and are ever evolving. It is unlikely, however, that there will ever be one specific "best MISS technique" identified, as appropriate and predictable surgical indications will always outperform a technique for a surgical approach.

Michael Steinmetz, MD, Chairman of Neurosciences & Medical Director of the Spine Center, MetroHealth System, Cleveland: Minimally invasive spine surgery is: surgery that minimally disrupts the anatomic barriers of the soft tissues of the spine.

Scott Tromanhauser, MD, Spine Surgeon, Boston Spine Group: Purists will likely say that it is surgery performed through tubes and percutaneously. I like to think of it as anything that reduces the impact on the patient compared to traditional open surgery. For example, performing an anterior lumbar interbody fusion is less "invasive" than an open posterior instrumented fusion. There is less muscle dissection, less bleeding, reduced risk of nerve injury and usually better tolerated by the patient. In my opinion, it is less a matter of what is minimally invasive and one more of what is appropriately invasive.

More Articles on Spine Surgery:

7 Spine Surgeons on Shaping Spine & Healthcare Policy

4 Spine Surgeons on Top Benchmarks for Spine Practices

How Often Should Spine Surgeons Renegotiate Vendor Contracts

Tagged under spine surgeon spinal surgery minimally invasive spinal procedure laser spine endoscopic spine	
Copyright ASC COMMUNICATIONS 2011. Interested in LINKING to	or REPRINTING this content? View our policies here.
0 Comments and 0 Reactions	
Like	
Add New Comment	Login
Type your comment here.	
Showing 0 comments	Sort by oldest first
* Subscribe by email . RSS	

Build a Spine Center Your journey starts herel Click Now
10th Annual Orthopedic, Spine and Pain Management-Driven ASC Conference - Improving Profitability and Business and Legal Issues JUNE 14-16, 2012 • WESTIN HOTEL СНІСАВО, ILLINOIS • BROCHURE NOW AVAILABLE
Most Read - Spine
1. 38 Spine Surgeons Performing Lateral Access Spine Surgery
2. Stem Cells for Spine Surgery: 7 Points From Dr. Richard Hynes
3. 20 Spine Surgeon Leaders of Spinal Oncology
Programs
Programs 4. Get Small: 6 Tips to Mobilize Spine Practice Marketing
4. Get Small: 6 Tips to Mobilize Spine Practice