



Advances in Spinal Surgery

A Four-Hour Seminar for Perioperative Techs: Surgical, Central Sterile and Anesthesia Techs

Saturday, October 22, 2022 | 9:00am to 2:00pm (ET)

9:00am	PARTICIPANTS LOGIN	
9:20am – 9:30am	Welcome and Introductory Remarks	
9:30am – 10:30am	<p>“Introduction: Exciting Times In The Evolution of Spine Surgery”</p> <p>Descriptive Summary: Over the past decade, spine surgery in the operating room has changed dramatically. Minimally invasive spine surgery is the fastest growing market segment in spine surgery. Robotics, virtual and augmented reality, new screw and cage technologies, new techniques to ensure perfect placement of instrumentation have all changed spine surgery as we know it.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none">1. Learn about new technologies being implemented in spine surgery;2. Describe current uses of Virtual, Mixed, and Augmented Reality in Spine Surgery; and3. Evaluate how robotics have changed the spine space.	Jeremy M. Steinberger, MD
10:30am – 11:30am	<p>“What is Minimally Invasive Spine Surgery?”</p> <p>Descriptive Summary: The term “minimally invasive” is commonly used in spinal surgery but is often used loosely. In this lecture, we will explore this nebulous term. The conservative philosophy of a minimally invasive surgeon will be discussed as well as the non-surgical and surgical means by which such a specialist addresses spinal pathology while minimizing surgical burden.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none">1. Differentiate minimally invasive spine surgery from traditional surgical techniques;2. Describe several of the common minimally invasive spinal surgery techniques;3. Understand the rationale for avoiding spinal fusion whenever possible; and4. Identify oft-hyped treatment methods that are not currently supported by scientific evidence.	Peter B. Derman, MD, MBA
11:30am	BREAK	
12:00pm – 1:00pm	<p>“The Use of Robotics in Spine Surgery: An Exciting New Frontier”</p> <p>Descriptive Summary: Robotic-assisted spinal surgery has emerged as an innovative and disruptive technology that is poised to make significant changes in the practice and scope of spinal surgery. Not only can this technology improve the surgical technique of pedicle screw placement, but can also be used for intra-operative data collection to help guide decision-making and treatment strategies. Here, we discuss some of the latest technologies spinal surgeons use during procedures and discuss the future potential of robotic surgery.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none">1. Learn about new, emergent technologies in spinal surgery;2. Visualize the utility of robotics in placing spinal instrumentation, planning and guiding surgical technique; and3. See the evolution of surgical practice to integrating robotic surgery.	Jonathan J. Rasouli, MD
1:00pm – 2:00pm	<p>“Use of Navigation and Virtual and Augmented Reality in Spine Surgery”</p> <p>Descriptive Summary: This presentation will cover the history of navigation in spine surgery before discussing how the technology is used in the operating room today. The current evidence in the scientific literature will also be presented for review. In addition, we review the differences between augmented reality, virtual reality and mixed reality before covering the currently available platforms using this “next generation” of navigation technology. The current rates of adoption of these technologies will also be covered.</p> <p>Learning Objectives:</p> <ol style="list-style-type: none">1. Review the history of navigation technologies in spine surgery;2. Discuss the differences between navigation/augmented reality and virtual reality; and3. Discuss the evidence supporting the use of navigation and augmented reality in spine surgery (impact on clinical outcomes).	Sraivisht Iyer, MD
2:00pm	PROGRAM END	