Mazor Robotics Renaissance Reaches Milestone With Spine Surgeons Placing Over 1K Implants Percutaneously

While only 10 to 15 percent of all spine surgeries are performed using minimally-invasive surgical (MIS) techniques, 25 percent of all Renaissance cases (1,019 and rising) have been executed percutaneously. Mazor Robotics, recently named one of The World's 50 Most Innovative Companies by Fast Company, offers advantages to patients and surgeons alike with Renaissance, a surgical guidance system for spine and brain surgery. Mazor Robotics technologyis available at over 40 spine centers worldwide and has been used in thousands of spine procedures to date.

Although MIS spine surgery provides patients with benefits such as less scarring and shorter recovery time, surgeons performing such procedures have a higher risk of cancer due to the prolonged radiation exposure (fluoroscopy). In 2012, Faissal Zahrawi, MD, FACS, founder of Celebration (Fla.) Minimally Invasive Spine Institute, presented to The International Society for Minimal Intervention in Spinal Surgery (ISMISS) on the potential for reducing fluoroscopy in MIS spine surgery when using Renaissance. Earlier this year, Dr. Zahrawi celebrated his 100th successful MIS case using Renaissance.

Dr. Sven Kantelhardt's study in the European Spine Journal states "the use of robotic-guidance significantly increased accuracy of screw positioning while reducing the X-ray exposure."1 In comparison to freehand spine surgery, this clinical study proved that using Renaissance™:

- improved implant accuracy by 70 percent,
- reduced X-ray dosage by 56 percent,
- reduced complication rates by 48 percent,
- reduced need for re-operations by 46 percent, and
- reduced average length of hospital stay by 27 percent.

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