

Rail 4D Technology to Debut at 19th International Meeting on Advanced Spine Techniques

LEESBURG, VA- K2M, Inc., a spinal device company developing innovative solutions for the treatment of complex spinal pathologies and minimally invasive procedures, today announced the breakthrough Rail 4D™ Technology will debut at the 19th International Meeting on Advanced Spine Techniques (IMAST). This 4D Technology will first be featured in the form of the MESA Rail™ Deformity Spinal System to address the most complex spinal curves.

Inspired by structural I-beam geometry, the uniquely shaped and one-of-a-kind Rail is an alternative to the traditional round spinal rods offered with other products. The Rail provides enhanced structural rigidity, while maintaining a lower-profile than set screw based systems. As compared to a standard 5.5 mm Cobalt Chrome rod, the company's 5.5 mm Cobalt Chrome Rail is 210 percent stronger in flexion-extension and 46 percent stronger in lateral bending. This technology is exclusive to K2M, as it has been designed to complement the company's existing MESA® Locking and Cricket® Reduction Technologies.

According to Oheneba Boachie-Adjei, MD, Chief of the Scoliosis Service at the Hospital for Special Surgery, "The Rail provides a strong, stable, and durable construct for correction of spine deformities. The rod flattening scenario commonly seen with other more flexible rods is improved by the Rail's high flexural rigidity in the sagittal plane, and the race between bone fusion and implant failure is less of a worry with the stronger Rail."

Dr. Boachie-Adjei will be presenting on the clinical application of the Rail 4D Technology in a Hands-On Workshop at IMAST this Wednesday at 15:00 in Istanbul, Turkey.

Due to the beam-like shape, reducing the Rail Cricket devices will inherently result in rotation of the vertebral bodies as they are pulled up to the Rail. The design offers fixation options for surgeons by helping to apply forces during axial correction of difficult spinal curvatures. It has the potential to reduce intraoperative rod "flattening" that is undesired by surgeons. The Rail may decrease the need for over-bending the construct and give surgeons more predictability and direct control over sagittal balance.

"Rail 4D is a breakthrough technology providing surgeons that treat the most complex spinal deformities with a brand new alternative for predictable rigid fixation," stated Eric Major, K2M's President and CEO. "Based on the clinical feedback to date, we are confident that Rail 4D has the potential to disruptively change the complex spine market and, most importantly, offer surgeons a new and improved intraoperative option for treating patients with scoliosis."

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