Instrumentation for Less Invasive Surgical Fixation of Rib Fractures

DePuy Synthes

DePuy Synthes CMF, a leader in skeletal and soft tissue repair and reconstruction, announced the launch of new instrumentation that enables less invasive surgical fixation and stabilization of rib fractures with the company's MatrixRIB™ System of precontoured, low-profile titanium plates, locking screws and intramedullary splints.

MatrixRIBTM Minimally Invasive Plate Osteosynthesis (MIPO) instrumentation was designed to provide surgeons with improved access, through small incisions, to rib fractures including difficult to reach sub-scapula rib fractures. The new instruments include a Trocar, Threaded Reduction Tool (TRT) with self-drilling tip, and 90° screwdriver with drilling capability.

"Surgical fixation and stabilization of painful rib fractures is a growing procedure and the introduction of new MIPO instrumentation should help make it an even more attractive option for both surgeons and patients," said Adam Shiroff, MD, FACS, Chief of Trauma, Jersey Shore University Medical System and Assistant

Professor of Surgery at Rutgers Robert Wood Medical School. "The instrumentation facilitates a less invasive rib fixation procedure, and a less invasive procedure may result in less pain, quicker recovery and reduced hospitalization."

The potential benefits of surgical stabilization (osteosynthesis) of severe rib fractures over non-surgical treatments include reduced duration of mechanical ventilation support, shortened ICU stays and hospitalization, better secretion management through efficient cough, and minimized chest wall deformities resulting from trauma.[1,2]

It is estimated that more than 350,000 people are affected by rib fractures each year in the United States. These fractures are associated with respiratory complications, prolonged hospitalization, prolonged pain, long-term disability and mortality.[3]

More than 5,000 patients worldwide have received MatrixRIB implants since the System was launched in 2009. The MatrixRIB System is indicated for the fixation and stabilization of rib fractures, fusions and osteotomies of normal and osteoporotic bone.

MatrixRIBTM is the only rib fixation system that is approved by the AO Foundation, a medically guided nonprofit organization led by an international group of surgeons specialized in the treatment of trauma and disorders of the musculoskeletal system.

For more information visit, www.aofoundation.org [1].

[1] Ahmed Z, Mohyuddin Z: “Management of flail chest injury: internal fixation versus endotracheal intubation and ventilation.” J Thorac Cardiovasc Surg. 1995 Dec; 110(6):1676-80

[2] Tanaka H, Yukioka T, Yamaguti Y, Shimizu S, Goto H, Matsuda H, Shimazaki S: “Surgical stabilization of internal pneumatic stabilization. A prospective randomized study of management of severe flail chest patients.” J Trauma. 2002; 52(4):727-32; discussion 32

[3] Nirula R, Mayberry JC.:"Rib fracture fixation: controversies and technical challenges." The American Surgeon. 2010 Aug; 76(8):793-802.

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