Medtronic News

Medtronic Announces Advanced SynergyTLIF(SM) Workflow for Minimally Invasive Lumbar Spine Surgery

Integrated Technologies Allow a Fully Navigated Procedure with Fewer Surgical Steps

DUBLIN and NEW ORLEANS - May 2, 2018 - Medtronic plc (NYSE: MDT) today announced the advanced SynergyTLIFSM workflow - a procedural solution for spine surgery that combines innovative technologies to create a completely navigated minimally invasive procedure that allows fewer intra-operative surgical steps. The announcement was made during the American Association of Neurological Surgeons (AANS) annual meeting in New Orleans, La.

The advanced SynergyTLIF Workflow combines the O-arm(TM) System imaging and StealthStation(TM) imaging guidance for navigated:

- Minimally invasive access
- Screw preparation via navigated Stealth-Midas(TM) Drilling System
- Interbody disc preparation instruments
- Interbody placement of the Elevate(TM) Spinal System expandable interbody device
- Screw placement of the CD Horizon(TM) Solera(TM) Voyager(TM) 4.75 and 5.5 ATS(TM) Screws

"The advanced SynergyTLIF workflow allows me to see every step of the patient's minimally invasive procedure through real-time 3D imaging," said Dr. Jean-Pierre Mobasser, neurosurgeon at Goodman Campbell Brain & Spine/Indiana University, Department of Neurosurgery in Indianapolis, Ind. "The ATS(TM) Screw Technology provides procedural efficiency by eliminating guidewires and reducing the number of surgical steps thanks to a uniquely designed awl-tipped screw that can penetrate cortical bone without the need for a separate drill or tap."

The new CD Horizon Solera Voyager 5.5 System has percutaneous and mini-open rod insertion options for treating both degenerative and adult deformity conditions. The system features both cannulated and non-cannulated screw options. The non-cannulated ATS screw reduces the number of screw placement steps from nine to three (versus traditional pedicle screw placement). The advanced SynergyTLIF workflow incorporates Elevate Spinal System's expandable cage technology, which allows lordotic expansion to be tailored to the patient's unique anatomy and sagittal alignment needs.

"This new workflow is another example of how our portfolio breadth enables us to transform spine outcomes for patients, surgeons, and hospitals," said Doug King, senior vice president and president of Medtronic's Spine division, which is part of the Restorative Therapies Group. "Patients are top of mind when we develop our state-of-the-art minimally invasive technologies, but creating operating room efficiencies is also at the forefront of our innovation."

The Elevate Spinal System incorporates the technology of Gary K. Michelson, MD.



About Medtronic

Medtronic plc (www.medtronic.com), headquartered in Dublin, Ireland, is among the world's largest medical technology, services and solutions companies - alleviating pain, restoring health and extending life for millions of people around the world. Medtronic employs more than 84,000 people worldwide, serving physicians, hospitals and patients in approximately 160 countries. The company is focused on collaborating with stakeholders around the world to take healthcare Further, Together.

Any forward-looking statements are subject to risks and uncertainties such as those described in Medtronic's periodic reports on file with the Securities and Exchange Commission. Actual results may differ materially from anticipated results.

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