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Medtronic plc announced that the U.S. Food and Drug Administration (FDA) clearance of StealthStation Cranial Software as an aid for deep brain stimulation (DBS) lead placement. The software is fully integrated with Medtronic's latest O-arm Imaging System, providing clinicians with a complete procedural solution for the planning and placement of DBS leads. The announcement was made at the Congress of Neurological Surgeons (CNS) in San Diego.

With Medtronic's DBS Therapy, a small, pacemaker-like device called a neurostimulator is implanted under the skin of the chest and sends electronic signals to an area in the brain that controls movement. Thin wires - called leads - are implanted in the brain and are connected to the neurostimulator by an extension to enable the signals to reach the source of symptoms. The new StealthStation application, which integrates pre-operative planning, intraoperative imaging and technologies to help guide surgeons during cranial procedures, is designed to improve procedural workflow and allow for DBS lead placement with a high level of accuracy.

"The new StealthStation software works seamlessly with O-arm to give me a single solution for pre-operative planning and real-time 3D imaging of the brain in the OR, and that streamlines my workflow for DBS lead placement," said Dr. Jonathan Carlson, MD, PhD, a neurosurgeon at Providence Spokane Neuroscience Institute in Spokane, Wash. "Now I have the essential information I need in one place, giving me - and my patients - even more confidence in the procedure."

In the past 25 years, the StealthStation system has been used in more than 2.25 million procedures. The O-arm system has

been used to help more than 200,000 patients over the past decade. Medtronic DBS neurostimulators have been implanted in over 140,000 patients around the world. Medtronic's full-body MR Conditional Alevia® DBS neurostimulators help to reduce some of the movement symptoms of certain neurological disorders including Parkinson's disease and essential tremor.

"We alleviate pain, restore health and extend life by providing informed and integrated neurosurgical procedures to our customers and their patients," said Scott Hutton, vice president and general manager of the Neurosurgery business in Medtronic's Restorative Therapies Group. "And as we transform the way the world treats patients with neurologic disorders, we'll utilize the breadth of our broad Brain Therapies portfolio in new and different ways to bring fully-integrated solutions like this to our customers."