ADDRESSING THE CHALLENGES OF SPINAL SURGERY WITH AQUAMANTYS™ & PEAK PLASMABLADE™

SURGICAL CHALLENGES IN ACCESSING THE SPINE

- Controlling bleeding during spinal procedures can be a challenge for surgeons and anesthetists.[1]
- Blood loss can lead to impaired visibility of the surgical field[2,3] and increases the risks of transfusions, with increased morbidity for the patient and additional healthcare resources engaged at hospital level.[4,5]
- Additionally, the use of traditional electrosurgery is associated with thermal damage to tissues, potential injury to adjacent critical structures (such as nerves or blood vessels) and delayed wound healing.[6]

AQUAMANTYS™ bipolar sealers use a combination of radiofrequency energy and saline to provide haemostatic sealing of soft tissue and bone, allowing for **reduced blood loss and operative time in spine surgery.**[3,7-9]

PEAK PLASMABLADE™ is a precision cutting and coagulation device, which provides incision healing equivalent to a scalpel and the bleeding control of traditional electrosurgery but with **reduced thermal damage.**[6,10]

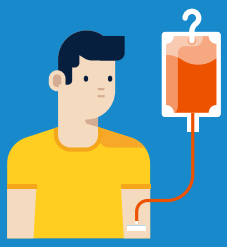
Combined, these devices effectively and economically address the challenges at the access stage of the spine procedure and lead to **improved visibility** in the surgical field.[3,6-11]



AQUAMANTYS™



up to 57%
less intraoperative blood loss[3,7-9,11†]



up to 22%
fewer perioperative transfusions[3,7,8†]



$745
average cost savings* per procedure at acquisition cost[11]



26 min
saved in degenerative lumbar scoliosis procedures[7†]

PEAK PLASMABLADE™



74%
less thermal injury following skin incision with PEAK PlasmaBlade™ versus traditional electrosurgery[6]



95%
less smoke produced with PEAK PlasmaBlade™ compared with traditional electrosurgery[12]

*2013 US dollars. The acquisition cost is the average cost to acquire blood components from blood suppliers in the mid-Atlantic region. It is calculated as $220/RBC (red blood cell) unit, $50/FFP (fresh frozen plasma) unit, and $600/PLTS (platelets) unit.
†Statistically significant difference with Aquamantys™ as compared to control group (in which no bipolar sealer was used).

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See the device manual for detailed information regarding the implant procedure, contraindications, warnings, precautions and potential adverse events.
For further information, contact your local medtronic representative and/or consult the Medtronic website at www.medtronic.com