The FMX Ferromagnetic Surgical System is an intelligent surgical platform that uses ferromagnetic technology to precisely cut, coagulate, and seal tissue; with a fraction of tissue injury compared to other surgical technologies, and without passing electrical current through the patient. The FMX system is used in numerous surgical subspecialties including cardiothoracic, head & neck, surgical oncology, plastics and more. Domain Surgical is focused 100% on patient safety and improved patient outcomes. Current competitive energy modalities cause excessive collateral damage and affect post-op recovery. The FMwand, part of the FMX Ferromagnetic Surgical System, delivers energy in a safe, precise and reliable manner resulting in the preservation of healthy tissue.

KEY CLINICAL ADVANTAGES OF THE FMWAND:

- Less lateral thermal damage compared to standard monopolar electrocautery.\(^1\)\(^2\)
- Faster healing than both cold scalpel and electrocautery.\(^2\)
- Significantly less phrenic nerve injury.\(^3\)
- Less bleeding and decreased need for re-exploration for bleeding.\(^4\)
- Can be used on patients with pacemakers, cochlear implants or other implanted electronic devices with no interference or damage.\(^5\)

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USE OF FMWAND IMPROVES PATIENT SAFETY AND OUTCOMES:

Minimally invasive tissue injury
FMwand is histologically proven to cause less tissue injury than monopolar electrocautery.¹,²

Reduce chest tube output
FMwand “significantly reduced chest tube output at both 6 and 24 hours postoperatively”.⁴

Reduce nerve injury
FMwand use has shown to significantly lower the incidence of phrenic nerve injury.³

Faster healing
Tissue dissected by the FMwand is histologically proven to heal faster than both cold scalpel and electrocautery.²

Eliminate grounding pad burns
FMwand imparts no electrical current into the patient, thus requires no return electrode pad. Use of FMwand eliminates the potential for patient pad burns.

Eliminate risk of OR fires
FMwand creates no spark (as monopolar does) and cannot be the ignition source for OR fires. Use of FMwand eliminates the risk of cautery induced OR fires.

Reduce surgery time
In cardiothoracic redo procedures, Starr stated “as our experience with the device increases we now believe we exceed the speed of standard dissection.” Compared with monopolar electrocautery, Starr also demonstrated a reduction in time from skin incision to Cardiopulmonary bypass as well as a reduction in total operative time.³

Eliminate cautery induced cardiac dysrhythmias
Because electrical current is not passed through tissue, the FMwand stimulates no cardiac dysrhythmias and generates no interference for monitors, echocardiography, or pacemaker devices.⁴

REFERENCES


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