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MCN PLUS

Vesalius with QMR

Neurosurgery Skull Base
ENT Maxillofacial
Neck Surgery Spine Surgery
and more

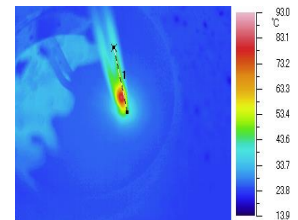
Advantages

- Less post-op pain
- Reduced duration of surgery¹
- Precise skin incision & coagulation
- Reduced Neuro muscular stimulation
- Cut & coagulation occur at low temperatures²
- Bipolar & Monopolar output
- Disposable & Reusable accessories

Low Thermal Spread and Non-Sticking Forceps

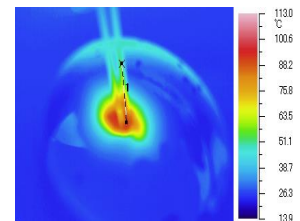
Forceps using Vesalius Quantum Molecular Resonance (QMR) Technology

A special combination of high frequencies that allows for cutting and coagulation due to a resonance effect on tissue. QMR deploys a particular waveform generating energy with a sufficient value to break up molecular bonds without increasing kinetic (heat) energy.



Standard ESUs and Forceps without QMR

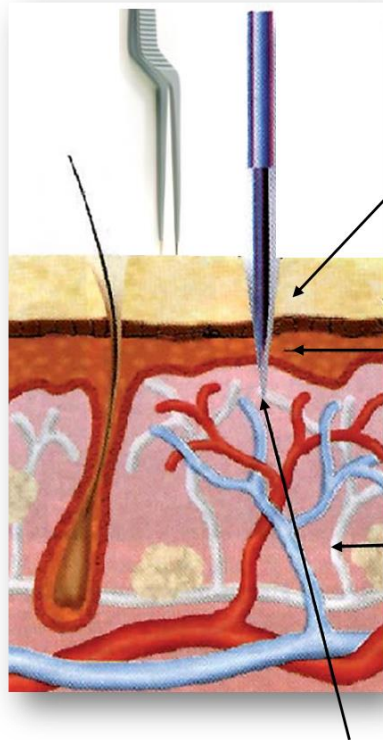
Standard ESUs use higher levels of energy causing an increase in thermal temperature. Due to this increased heat, forceps have to be adapted with cooling technology, irrigation, and other more expensive technologies which greatly increases the cost of accessories.



¹ Cherekaev VA, Beklashev AKh, et al. Experience in using a molecular coagulator in neurooncology; Zhurnai Voprosy Neurokhirugii Imeni N. NI. Burdenko 2005(3):33-36

² Kaku S., Ishil T., Hasegawa Y., et al Usefulness of Bipolar Forceps and Generator with High Frequency Technology for Point Coagulation and Tissue Adhesion. Currently Practical Neurosurgery vol 18, no.5. 2008.5:617-624

The Science Behind QMR



“Cold cutting”- tissue temperature does not exceed 45-50°C

No charring or thermal necrosis

Non sticking – no tissue trauma from charring and sticking tips, no “secondary” bleeding, less instrument cleaning

Dissection without applying force – no shifts of tissue structures for better healing

No nerve injuries - no pain from cut

Rupture of cell membranes caused by force of the high amplitude resonance oscillations on molecular level



Improved patient outcome

No collateral damages to sensitive brain structures - less post-operative complications

Faster healing and recovery

Less scarring and pain

Quantum Molecular Resonance Technology

4 8 12 16 MHz
Multiple Frequency Spectrum



Patented “packets” of high level radio frequencies targeting tissue molecular bonds

All QMR energy spent on breaking bonds, as opposed to conventional RF energy conversion to kinetic oscillations (heat)

For more information contact your NSII
Sale Representative

For product information:

Nova Surgical Innovations Inc.

42245 Remington Ave, Suite B7

Temecula, CA 92590 – USA

Telephone: +1-951-228-0072

Email: info@nsiiweb.com

Web: www.nsiiweb.com



Indications for Use:

The Vesalius MCNplus Electrosurgical Unit (ESU) generator and accessories are intended for resection, ablation and coagulation of soft tissues and haemostasis of blood vessels in surgical procedures in orthopaedic, arthroscopic, neurosurgery, ENT and spinal procedures.

