

Labycare-Radio Frequency Cautery (SKSS-IE52)



Radio Frequency Cautery Manufacturer by LABYCARE

Description :

Radio Frequency Cautery is used as high-frequency electrical current that can be used as either bipolar or monopolar mode (4.0 MHz). The zone of injury is comparable or less than a carbon dioxide laser when both are used in appropriate fashion for traditional surgery

Radio Frequency Cautery involves the passage of high frequency radio waves(2mhz-Megahertz) through soft tissue to cut, coagulate or remove the tissue. Soft tissue resistance to these radio waves causes the cellular water in the soft tissue to heat, which produces steam, and results in cellular molecular dissolution of individual tissue cells.

The surgeon uses a hand piece with an active electrode (different type of electrodes for different applications) to transmit the radio waves. The radio waves are focussed on the tissue by an antenna plate (Patient plate) that is positioned behind the tissue in contact with patient's skin.

Radio surgery in general practise has many advantages over conventional surgical techniques particularly dermatological, plastic and eye lid surgery, ENT ,Dental,quicker operating time,rapid healing,less tissue damage and less post operative discomfort .

Radio frequency Cautery is not to be confused with electro-surgery machine(Surgical Diathermy) spark gap circuitry unit(Electro Cautery Machine) and uses completely new technique compared with scalpal surgery and other techniques and Radio energy does the cutting very light.

A very high frequency radio wave 0.3 - 2 MHz and a fine needle or wire loop electrode which is held by the surgeon, radio energy passes between the cautery electrode and patient plate. It is concentrated at the needle end or wire loop electrode, resulting in the release of energy, which produces steam within the cells, thus vaporizing them and dividing the tissues.

Power input 220 volts +-5%

Power consumption 150 Watts

Frequency 2 MHz

Maximum Output

HF Monopolar 150Watts on 400 ohm load

HF Bipolar 100 Watts on 100 ohm load

Fulguration 100 Watts on 1000 ohm.

Size: 8 1/2" X 7 1/2" X 4"

Weight: 3.5 Kgs

Advantages :

Minimum heat with no charring resulting in least tissue damage.

Cutting & fulguration is optional

Minimum blood loss & pain

Shock proof.

Local anaesthesia is not required on the surface of the skin or in superficial procedures.

Sparkless integrated circuit of latest technology for fast and continuous procedures.

Pin point cutting capability.

Specifications :

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