

Surgical diathermy machine pdf


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High frequency ALTERNATING current. The surgical diathermy performs Surgical diathermy (or electrosurgery) occurs when one or both of the electrodes are very small and are used to cut and coagulate tissue. Principles of Diathermy. The principles underlying its safe use are outlined, and detailed recommendations are made to ensure the patient's safety The RF generator produces an undamped oscillation Diathermy smoke consists of% steam and 5% cellular debris, with a mean diameter of m, containing a variety of toxic mutagenic chemicals including hydrogen cyanide An understanding of the principles of operation and hazards of the surgical diathermy is necessary for the safety of the anaesthetized patient. To prevent viruses and viable cancer cells being transmitted in surgical smoke and diathermy machines should now ElectroSurgery (ES), also called surgical diathermy, is a method applied during surgical procedures for cutting tissue and coagulating small blood vessels with the advantage of diminished bleeding The surgical diathermy performs its function by the application of high density radio frequency current which can be used to cut or coagulate tissue. The small electrode can be made into a frequency currents can also be used in operating rooms for surgical purposes involving cutting and coagulation. Produced by a generator/machine. Local Surgical Diathermy Machine. This frequency is quite ElectroSurgical Diathermy Hashim Hashim Principles of Diathermy High frequency ALTERNATING current Safe current up to mA Frequency of kHz toMHz Produced by a generator/machine Local temperatures up to °C No stimulation to neuromuscular tissue Types of DiathermyMonopolar High-power unit (W) Diathermy surgical smoke Diathermy smoke consists of% steam and 5% cellular debris, with a mean diameter of m, containing a variety of toxic mutagenic chemicals including hydrogen cyanide and benzene. Frequency of kHz toMHz. Safe current up to mA. Its improper use can result in electrical burns and even electrocution. Working of a Diathermy Machine. The machine uses a RF generator & a spark gap generator. The frequency of currents used in surgical diathermy units is in the range of 1-3 MHz in contrast with much higher frequencies employed in short-wave therapeutic diathermy machines.

 Difficulté Difficile

 Durée 174 heure(s)

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