

Difference Between Monopolar And Bipolar Cautery

Diathermy handheld battery-operated portable cautery tools. Monopolar, where electric current passes from Diathermy is electrically induced heat or the use of high-frequency electromagnetic currents as a form of physical therapy and in surgical procedures. The earliest observations on the reactions of the human organism to high-frequency electromagnetic currents were made by Jacques Arsene d'Arsonval. The field was pioneered in 1907 by German physician Karl Franz Nagelschmidt, who coined the term diathermy from the Greek words διά (dia) and θερμή (thermē), literally meaning 'heating through' (adjectival forms: 'diathermal' and 'diathermic'). Diathermy used in surgery is of typically two types 11cb390374

Diathermy is produced by two techniques: short-wave radio frequencies in the range 1–100 MHz (shortwave diathermy) or microwaves typically in the 915 MHz or 2.45 GHz bands (microwave diathermy), the methods differing mainly in their penetration capability. It exerts physical effects and elicits a spectrum of physiological responses. 11cb390374 The same techniques are also used to create higher tissue temperatures to destroy... 11cb390374 Diathermy is commonly used for muscle relaxation and induce deep tissue heating for therapeutic purposes in medicine. It is used in physical therapy to deliver moderate heat directly to pathologic lesions in the deeper tissues of the body. 11cb390374

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