

ELECTRO SURGICAL UNIT

Electro surgery is the use of radiofrequency alternating current to raise cellular temperature as a way to vaporize or coagulate tissue. Its benefits include the ability to make precise cuts with limited blood loss. Electrosurgical devices are frequently used during surgical operations helping to prevent blood loss in hospital operating rooms or in outpatient procedures. In electrosurgical procedures, the tissue is heated by an electric current. Although electrical devices may be used for the cauterization of tissue in some applications, electro surgery is usually used to refer to a quite different method than electro cautery. The latter uses heat conduction from a probe heated to a glowing temperature by a direct current (much in the manner of a soldering iron). This may be accomplished by direct current from dry-cells in a penlight-type device. Here the high frequency is achieved by using frequency generator(IC XR-2206) and further the signal is modified to get cutting, coagulation and blending wave forms and the signal power is boosted.

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