ABSTRACT

This study aims to make a bipolar mode Pure Electro surgery unit (module). As for the author, the background of this module is because surgical equipment functions to perform surgery by minimizing the blood released by the patient, by utilizing high frequency and electric currents for cutting, coagulation, and fulguration. However, in this study using cutting mode only with two choices of power and frequency can be adjusted with 100 kHz to 300 kHz vulnerable. This study obtained the results with the lowest power of 6.5 Watts and the highest power of 38.6 Watts, which affects the results of measuring voltage, current, resistance, and frequency. Bipolar electro surgery is one of the most commonly used surgical instruments for all surgeries at a certain point, according to which the need for a bipolar mode surgical device for minor surgery such as certain organs requires a small scope in humans using high frequency.

Keywords: Electrosurgery, Bipolar Mode, Surgery, High Frequency