FLOATING SLEEVE CO-AXIAL ANTENNA FOR MICROWAVE COAGULATION THERAPY

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Abstract

Although surgical resection remains the gold standard for treatment of liver cancer, there is a growing need for alternative therapies. Microwave ablation (MWA) is an experimental procedure that has shown great promise for the treatment of unresectable tumors and exhibits many advantages over other alternatives to resection, such as radiofrequency ablation and cryoablation. A novel floating sleeve coaxial antenna for hepatic microwave ablation has been proposed. The main objective is to achieve to achieve a highly localized SAR pattern that is independent of insertion depth.

Keywords: SAR, microwave ablation, , Hyperthermia, Cancer, Hyperthermia, Antenna.