Abstracts

Modeling a Microwave Catheter Antenna for Cardiac Ablation

A. Khebir, Z. Kaouk and P. Savard. "Modeling a Microwave Catheter Antenna for Cardiac Ablation." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 299-302.

This article studies the possibility of using microwave energy for cardiac ablation as an alternative to IRF energy since the latter has several clinical limitations. For this endeavor, a computer code, based on the powerful finite element method, was developed and used to design a prototype circular microwave catheter antenna its volume heating was studied and compared to that of an RF electrode of similar dimensions and found that the former yields a lesion size as twice as large as the latter while respecting most of the clinical considerations.

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