Abstracts

Microwave Applicators for Localized Hyperthermia Treatment of Malignant Tumors

R.W. Paglione, F. Sterzer, J. Mendecki, E. Friedenthal and C. Botstein. "Microwave Applicators for Localized Hyperthermia Treatment of Malignant Tumors." 1980 MTT-S International Microwave Symposium Digest 80.1 (1980 [MWSYM]): 351-354.

Three types of microwave applicators have been developed for treating malignant tumors in humans: waveguide applicators, conformal "bean-bag" applicators using printed circuit antennas, and coaxial applicators. These applicators operate at a frequency of 915 or 2450 MHz and can raise the temperature of tumors to the hyperthermic range of 42.5 to 43.5°C. Encouraging results have been obtained with these applicators in initial clinical trials involving approximately 50 patients.

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