Abstracts

Coaxial Antenna Array for 915 MHz Interstitial Hyperthermia: Design and Modelization-Power Deposition and Heating Pattern-Phased Array

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Coaxial antennas different in their active length have been designed, to be used in a complete 915 MHz hyperthermia system with temperature control by microwave radiometry. Heating patterns are reconstructed from the power deposition associated with the bioheat transfer equation. Temperature control is effected by means of microwave radiometry and used in order to determine bioheat parameters. Phased arrays are studied allowing heated volume expansion.

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