

Abstracts

Microwave Imaging at 3 GHz for the Exploration of Tumors of the Breast

Giaux, J. Delannoy, D. Delvalee, Y. Leroy, A. Mamouni and J.C. van de Velde. "Microwave Imaging at 3 GHz for the Exploration of Tumors of the Breast." 1988 MTT-S International Microwave Symposium Digest 88.1 (1988 Vol. I [MWSYM]): 157-160.

We have used a microwave imaging system worked out by the "Centre Hyperfréquences et Semi-conducteurs" of LILLE. First, we have appraised the method by measurements of 53 large tumors to optimize it. After, we essentially used this device for the determination of the benignity or the malignancy of small breast tumors: 9 non palpable tumors with a mammographic aberration; 9 tumors of small volume. These tumors could not be punctured for a cytologic examination. The microwave radiometry enabled us to determine definitely the malignancy or the benignity of these lesions, which was confirmed by a histologic examination, after surgery. These first results are promising.

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