

3rd Global summit on

ONCOLOGY AND CANCER

May 06-07, 2019 Tokyo, Japan

Application of microwave thermometry in early detection of breast cancer

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Cancer mortality can be reduced if cases are detected and treated early. The lack of awareness, suboptimal medical infrastructure; less availability of screening and low doctor-patient ratio are the prime reasons for the scary statistics of increase in breast cancer load. Microwave Thermometry (MT) is used in risk estimation, the diagnosis of breast pathology and in assessing the effect of neo-adjuvant therapy for breast cancer treatment. It allows the evaluation of thermal changes both at the skin surface and inside the breast tissue. The device facilitates passive, painless, radiation-free and entirely non-invasive diagnostic procedures to pinpoint the changes in temperature that invariably precede structural changes in tissue. The temperature of a malignant tumor is a universal indicator of the growth rate of the tumor. Tumor temperature can be used as a prediction of the benefit of individual therapies and in monitoring the efficacy of breast cancer treatment. The device provides additional information about the severity of proliferative processes, manifested by thermal activity. This is the only device on a decentralized platform suitable for mass screening programs which will bring the Paradigm shift from reactive breast cancer care to care that is predictive, preventive, personalized and participatory.

Biography

Baljeet Singh Talwar is a graduate from Moscow Power Engineering Institute (Technical University) with a passion of Microwave Technology and has a vast experience in International Business in healthcare(Pharmaceutical & Information Technology).He has the experience of handling scientific and technical development, management of research, interaction with medical consultants of the project. Organization of R & D, production of medical equipment, international scientific cooperation & publications.

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