



Jewish General Hospital
Lady Davis Institute for Medical Research



"An Introduction to Microwave Medical Technologies for Accessible Healthcare"

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Abstract

Microwave medical technologies have potential for meeting diverse clinical challenges spanning health monitoring, detection, and diagnosis of disease, and even treatment. These technologies are low-cost, non-/minimally-invasive, non-ionizing, safe and well-tolerated, and can be made wearable or portable. In this talk, the motivation and basic foundations of microwave techniques are discussed, followed by the challenges of designing high quality basic research to support such medical device development. Promising microwave-based medical technologies designed to address high-priority clinical needs will be highlighted. Lastly, proposed future activities in this area will be discussed.