

# Experimental Validation and Clinical Applications of ECGI

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Cardiac electrical diseases are a major cause of mortality in the world today. Many individuals are not identified as at risk, or incorrectly identified for treatment. These suboptimal results are mostly due to the limitations of current clinical methods to detect cardiac electrical activity. Real-time and panoramic images of cardiac electrical activity can be noninvasively reconstructed through electrocardiographic imaging (ECGI). This modality fills the gap between the noninvasive (low-resolution) 12-lead ECG and invasive (high-resolution) electrophysiology studies. Much progress has been made to establish ECGI meaning today it is available for use in a clinical setting. This presentation will demonstrate the capabilities and limitations of current clinical ECGI methods through experimental validation studies, and present the latest clinical findings using ECGI to understand the mechanisms underlying unexplained sudden cardiac death.

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