

Local Impedance Measurements in the Atria – What Can We Learn From in Silico Experiments?

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Abstract: Regions with pathologically altered substrate have been identified as potential proarrhythmic regions for atrial fibrillation. Mapping techniques, such as voltage mapping, are currently used to estimate the location of these fibrotic areas. Recently, local impedance (LI) has gained attention as another modality for atrial substrate assessment as it does not rely on the dynamically changing electrical activity of the heart. In silico experiments can help exploring the abilities of LI measurements to account for atrial substrate and pave the way towards the use of LI as a surrogate for detection of fibrotic areas.