

Diagnostic mechanical mapping of cardiac rhythm using ultrasound

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Technology description

Publications

[J. Provost, V.T.-H. Nguyen, D. Legrand, S. Okrasinski, A. Costet, A. Gambhir, H. Garan, E.E. Konofagou. Electromechanical wave imaging for arrhythmias. Physics in Medicine and Biology, Vol. 56, Issue 22, 2011, pp. L1-L11.](#)

[E.E. Konofagou, J. Provost. Electromechanical wave imaging for noninvasive mapping of the 3D electrical activation sequence in canines and humans in vivo. Journal of Biomechanics, Vol 45, Issue 5 2012, pp. 856-864.](#)

[J. Provost, A. Gambhir, J. Vest, H. Garan, E.E. Konofagou. A clinical feasibility study of atrial and ventricular electromechanical wave imaging. Heart Rhythm, Vol 10, Issue 6, June 2013, pp. 856-862.](#)

Application area

Diagnostic imaging to determine presence of cardiac arrhythmias.

Fetal cardiac monitoring.

Imaging supplement for cardiac arrhythmia correcting procedures.

Complementary tool to electrocardiography (ECG) for determining cardiac dysfunction.

Advantages

Non-invasive.

Low-cost.

Utilizes currently available equipment.

Limits number of unnecessary procedures.

Institution

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