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Post-Processing Software and Algorithm for 4D Flow MRI

Tech ID: 24075 / UC Case 2014-265-0

BRIEF DESCRIPTION

A software and method which reads and post-processes flow sensitive phased contrast magnetic image resonance images in real-time (4D-Flow MRI).

FULL DESCRIPTION

4D-Flow MRI has the potential to provide a comprehensive evaluation of cardiovascular hemodynamics with full volumetric coverage for future cardiac and vascular diagnostics. A new software and method from researchers at the University of California, Irvine allows for post-processing of data obtained from scans to compute hemodynamics-related parameters for quantitative assessment of cardiovascular flows.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	10,134,127	11/20/2018	2014-265

TESTING

This software has been tested in some human subjects.

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OTHER INFORMATION

KEYWORDS

4-D Flow MRI, 4D-Flow, 4D Flow, Magnetic Resonance Imaging, Flow-Sensitive, Phase Contrast, Post-processing, Hemodynamics-related parameters, Fluid dynamics, PAR/REC, DICOM, Cardiovascular flows

CATEGORIZED AS

- » Computer
 - » Software
- » Imaging
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» Disease:
Cardiovascular and
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