

MRI-Based analysis of blood flow

Description of Technology

The invention describes software that interpolates images obtained preferably from magnetic resonance imaging (MRI) techniques to analyse blood flow characteristics of the cardiac pathology, particularly the heart and arteries. Of particular interest is the ability for this software to analyse the flow characteristic of turbulence, or non-laminar, non-ordered flow in three dimensions, in real time and in a non-invasive fashion.

Commercial Applications

The MIVFA (Medical Imaging, Visualisation and Flow Analysis) software meets a currently unmet requirement of the medical and surgical industry. It provides a non-invasive method of analysing blood flow that can be used for a number of purposes, most importantly as a diagnostic or prognostic tool for patients at risk of a range of abnormalities of the heart. In addition, the MIVFA software provides a means by which blood flow through artificial valves can be measured in vivo (post surgery) and in vitro (in the testing of prosthetic valves).

We are seeking to license to partners interested in the development of non-invasive diagnostic software for heart abnormalities and/or the design of improved prosthetic valves and stents.

For Further Details

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