Primary Investigators:

Auckland MRI Research Group
University Of Auckland, New Zealand
Founded 1996

Exercise Stress Testing
MRI compatible ergometer. Fast imaging protocols for ventricular function and aortic pulse wave velocity.

Collaborators:
Johns Hopkins Medical Centre
University of California San Diego
Oxford University
London Heart Hospital
St Francis Hospital

Future of CMR:
Faster, cost effective protocols
Standardization of analysis tools
Large scale population studies
Physiological properties (stiffness, contractile force, pressure)

Cardiac Atlas Project
A worldwide consortium to establish a structural and functional atlas of the heart. Access to thousands of cardiac MRI data & 3D heart models for research in cardiac imaging, modeling, diagnosis and analysis. Multiple pathologies: asymptomatic subjects, myocardial infarction, congenital heart diseases. Consensus studies for cardiac MRI. www.cardiacatlas.org

Cardiac Image Modeller
Interactive software for creating 4D heart models. Left and right ventricular analysis, with a special focus on Congenital Heart Disease. Analysis of ventricular function, diastolic function, strain, remodelling.

Magnetic Resonance Elastography
Novel algorithms to estimate anisotropic stiffness of myocardium from harmonic displacement fields measured by magnetic resonance elastography.

Coronary Arteries
Coronary artery geometry and flow. Flow in stented arteries.

Cardiac Mechanics
Muscle stiffness and active contraction force from CMR and pressure.

Tagging/DENSE
Cardiac deformation from tagging and DENSE

Short TE Flow Imaging
Better flow estimation in stenotic jets

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