

The Multicenter Stress Cardiac Magnetic Resonance Quantitative Perfusion Imaging in the United States Study

Status: RECRUITING

Eligibility Criteria

Age: 35 years to 85 years old

This study is NOT accepting healthy

Healthy Volunteers: volunteers

Inclusion Criteria:

1. male or female at age 35-85 years, 2. presence of either of the following sign/symptom that led to a referral to stress cardiac magnetic resonance imaging: 1. chest pain or anginal equivalent, or 2. abnormal electrocardiogram with a suspicion of coronary artery disease 3. Intermediate or high risk of significant coronary disease based on at least 1 of the following conditions: a) patient age ≥ 45 for male, 50 for female b) Diabetes, hypertension, or hypercholesterolemia: by either history or medical treatment c) family history of premature coronary disease: first degree relative at age ≤ 55 male and ≤ 65 female d) history of smoking of ≥ 10 pack-years e) post-menopausal state ≥ 5 years f) any chronic inflammatory conditions d) Body mass index ≥ 30 e) Any medical documentation of coronary or peripheral artery disease

Exclusion Criteria:

1. Acute myocardial infarction within the past 30 days prior to cardiac magnetic resonance imaging 2. Confirmed diagnosis of any significant non-coronary cardiac conditions below: 1. any severe-grade valvular heart disease, 2. left ventricular ejection fraction $< 40\%$ from any known non-coronary causes, 3. infiltrative cardiomyopathy, 4. hypertrophic cardiomyopathy, 5. pericardial disease with significant constriction, or 3. active pregnancy, 4. any competing conditions leading to an expected survival of < 2 years 5. contraindication to vasodilator (regadenoson or adenosine) 6. metallic device or object that poses a magnetic resonance imaging safety hazard 7. metallic device with a high likelihood of non-diagnostic cardiac magnetic resonance images

Conditions & Interventions

Interventions:

DIAGNOSTIC_TEST: Quantitative Myocardial Blood Flow Evaluation, DIAGNOSTIC_TEST: Qualitative Myocardial Blood Flow Evaluation, DRUG: Gadavist, DRUG: Vasodilator, DIAGNOSTIC_TEST: Blood draw for the laboratory assessment

Conditions:

Ischemic Heart Disease (IHD), Cardiac Magnetic Resonance Imaging, Myocardial Blood Flow

Keywords:

Myocardial Blood Flow, Cardiac Magnetic Resonance, Quantitative perfusion, Cardiovascular Outcomes

More Information

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