# Diastolic RV EvAluation with Millar catheter to investigate the effect of Glucagon-Like Peptide-1 (GLP-1) on right ventricular function during elective coronary angioplasty and stenting

Submission date	Recruitment status	Prospectively registered
22/10/2014	No longer recruiting	Protocol
Registration date	Overall study status	Statistical analysis plan
22/10/2014	Completed	Results
Last Edited	Condition category	[] Individual participant data
07/06/2019	Circulatory System	<ul><li>Record updated in last year</li></ul>

# Plain English summary of protocol

Not provided at time of registration

# **Contact information**

# Type(s)

Scientific

#### Contact name

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#### Contact details

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# Additional identifiers

ClinicalTrials.gov (NCT)

NCT02236299

Protocol serial number

17088

# Study information

#### Scientific Title

Diastolic RV EvAluation with Millar catheter to investigate the effect of Glucagon-Like Peptide-1 (GLP-1) on right ventricular function during elective coronary angioplasty and stenting

#### Acronym

**DREAM GLP-1** 

## **Study objectives**

The heart requires nutrients and oxygen carried in the blood to generate energy for healthy pump function. Blood is supplied via heart vessels called coronary arteries. When the arteries narrow we call this coronary artery disease. Narrowing and blockage of the coronary arteries can cause chest pain (angina), breathlessness (due to a reduction in pump function) and if prolonged even irreversible muscle damage known as a heart attack. We can treat patients with coronary artery disease with drugs that reduce the workload on the heart or with balloons and hollow metal tubes (stents) to open the narrowed coronary arteries and improve the blood supply. These treatments can relieve angina, improve breathlessness and avert heart muscle damage during a heart attack. A potential new mechanistic effect is emerging by modulating the type of fuel used by the heart to generate energy more efficiently has been tested in the left ventricle. This study is designed to see if mechanistic effect provides the same protection in the right ventricle. It is hoped that this may further improve heart pump function and reduce the size of a heart attack in patients with coronary artery disease.

## Ethics approval required

Old ethics approval format

# Ethics approval(s)

East of England - Cambridge South Research Ethics Committee, 13/06/2014, ref: 14/EE/0141

# Study design

Randomised; Interventional; Design type: Treatment

# Primary study design

Interventional

# Study type(s)

Treatment

# Health condition(s) or problem(s) studied

Topic: Cardiovascular disease; Subtopic: Cardiovascular (all Subtopics); Disease: Cardiovascular

#### Interventions

GLP-1, GLP-1

#### Intervention Type

Other

#### Phase

Not Applicable

## Primary outcome(s)

Improvement in RV diastolic dysfunction

## Key secondary outcome(s))

Not provided at time of registration

# Completion date

22/03/2016

# **Eligibility**

# Key inclusion criteria

- 1. Age over 18
- 2. Able to give informed consent
- 3. Elective percutaneous intervention for a single vessel right coronary artery stenosis >75%
- 4. Normal right ventricular function

# Participant type(s)

Patient

# Healthy volunteers allowed

No

#### Age group

Adult

## Lower age limit

18 years

#### Sex

Αll

#### Key exclusion criteria

- 1. Severe comorbidity expected life (<6months)
- 2. Nicorandil or a GLP1 receptor agonist or DPP4 inhibitor use
- 3. Women of child bearing age
- 4. Myocardial infarction within the previous 3 months
- 5. Previous coronary artery bypass graft to the RCA
- 6. Significant known left to right shunt
- 7. Permanent pacemaker
- 8. Atrial fibrillation

#### Date of first enrolment

22/09/2014

#### Date of final enrolment

22/03/2016

# Locations

#### Countries of recruitment

United Kingdom

England

Study participating centre
Papworth Everard
Cambridge
United Kingdom
CB3 8RE

# Sponsor information

## Organisation

Papworth Hospital NHS Trust (UK)

#### **ROR**

https://ror.org/01qbebb31

# Funder(s)

# Funder type

Government

#### **Funder Name**

NIHR CSO Healthcare Science Fellowship; Grant Codes: NIHRHCSD120314

# **Results and Publications**

Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Not provided at time of registration

# Study outputs

Output typeDetailsDate createdDate addedPeer reviewed?Patient-facing?HRA research summary28/06/2023NoNo