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Effect of glucagon-like-peptide-1 (GLP-1) on left ventricular function during percutaneous coronary intervention (PCI)

Submission date 23/04/2010	**Recruitment status** No longer recruiting	[_] Prospectively registered [_] Protocol [_] Statistical analysis plan [X] Results [_] Individual participant data
Registration date 23/04/2010	**Overall study status** Completed	
Last Edited 27/01/2016	**Condition category** Circulatory System	

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers
6979; G0701720

Study information

Scientific Title
Investigation of the effect of glucagon-like-peptide-1 (GLP-1) on left ventricular function during elective coronary angioplasty and stenting

Study objectives
Assessment of the cardioprotective effects of glucagon-like-peptide-1 (GLP-1) from ischaemia during coronary angioplasty.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Hertfordshire Research Ethics Committee, 24/04/2009, ref: 09/H0311/17

Study design
Randomised interventional treatment trial

Primary study design
Interventional

Secondary study design
Randomised controlled trial

Study setting(s)
Hospital

Study type(s)
Treatment

Participant information sheet
Not available in web format, please use the contact details below to request a patient information sheet

Health condition(s) or problem(s) studied
Topic: Cardiovascular; Subtopic: Cardiovascular (all Subtopics); Disease: Cardiovascular

Interventions
Assessment of left ventricular function during coronary angioplasty. In the active arm patients will receive an intravenous infusion of glucagon-like peptide-1 at 1.2 pmol/kg/min which will start after the 1st balloon inflation in the coronary artery and will run until the end of the procedure. In the control arm there will be no infusion.

Intervention Type
Drug

Phase
Not Applicable

Drug/device/biological/vaccine name(s)
Glucagon-like-peptide-1

Primary outcome measure
Left ventricular function with and without GLP-1, measured during two balloon inflations in the coronary artery which are 30 minutes apart

Secondary outcome measures
1. Collateral flow with and without GLP-1
2. Troponin I at 24 hours

Measured during two balloon inflations in the coronary artery which are 30 minutes apart.

Overall study start date
22/05/2009

Completion date
01/05/2012

Eligibility

Key inclusion criteria
1. Age over 18 (male or female and no upper age limit)
2. Able to give informed consent
3. On the waiting list for elective PCI to a single vessel coronary stenosis
4. Normal left ventricular function

Participant type(s)
Patient

Age group
Adult

Lower age limit
18 Years

Sex
Both

Target number of participants
Planned Sample Size: 40

Key exclusion criteria
1. Atrial fibrillation
2. Myocardial infarction less than 3 months previously
3. Previous coronary artery bypass grafts
4. Treatment with insulin, sitagliptin, vildagliptin or exenatide

Date of first enrolment
22/05/2009

Date of final enrolment
01/05/2012

Locations

Countries of recruitment
England

United Kingdom

Study participating centre
Addenbrooke's Hospital
Cambridge
United Kingdom
CB2 0XY

Sponsor information

Organisation
Papworth Hospital NHS Foundation Trust (UK)

Sponsor details
Papworth Everard
Cambridge
England
United Kingdom
CB3 8RE

Sponsor type
Hospital/treatment centre

Website
http://www.papworthhospital.nhs.uk/index.php

ROR
https://ror.org/01qbebb31

Funder(s)

Funder type
Research council

Funder Name
Medical Research Council (MRC) (UK) (ref: G0701720)

Alternative Name(s)
Medical Research Council (United Kingdom), UK Medical Research Council, MRC

Funding Body Type
Government organisation

Funding Body Subtype
National government

Location
United Kingdom

Results and Publications

Publication and dissemination plan
Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	pilot study results	01/06/2011		Yes	No
Results article	results	01/02/2015		Yes	No