

# Deriving a reduced lead system from the 80-lead body surface map for the electrocardiographic determination of acute myocardial infarction

<b>Submission date</b> 23/08/2007	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 30/05/2008	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 27/03/2012	<b>Condition category</b> Circulatory System	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data

**Plain English summary of protocol**  
Not provided at time of registration

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Prof Jennifer Adgey

**Contact details**  
Royal Victoria Hospital  
Grosvenor Road  
Belfast  
United Kingdom  
BT12 6BA  
+44 (0)2890 632171  
[jennifer.adgey@belfasttrust.hscni.net](mailto:jennifer.adgey@belfasttrust.hscni.net)

## Additional identifiers

**Protocol serial number**  
RGHT000406

## Study information

## **Scientific Title**

### **Study objectives**

The aims of the study are to determine the optimal electrocardiographic lead number and positions for the accurate detection of acute Myocardial Infarction (MI).

### **Ethics approval required**

Old ethics approval format

### **Ethics approval(s)**

Office for Research Ethics Committees in Northern Ireland (ORECNI). Date of approval: 15/05/2007 (ref: 07/NIR01/33)

### **Study design**

Non-randomised controlled trial.

### **Primary study design**

Interventional

### **Study type(s)**

Diagnostic

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

Acute coronary syndromes

### **Interventions**

All participants will be assessed by both Reduced Lead Body Surface Map and 12 Lead ECG. All management decisions will be made using the 12 Lead ECG only (as is current practice).

### **Intervention Type**

Other

### **Phase**

Not Specified

### **Primary outcome(s)**

Improved diagnostic yield of Body Surface Map over the 12 lead ECG

### **Key secondary outcome(s)**

No secondary outcome measures

### **Completion date**

01/08/2008

## **Eligibility**

### **Key inclusion criteria**

All patients presenting to the Regional Medical Cardiology Centre, Royal Victoria Hospital, with ischaemic type chest pain >20 minutes duration.

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Not Specified

**Sex**

All

**Key exclusion criteria**

Patients will be excluded if they have the following prior to the initial 12-lead ECG or reduced lead system application:

1. Pain <20 minutes
2. Receive fibrinolytic therapy
3. Nitrates or glycoprotein inhibitors

**Date of first enrolment**

01/08/2006

**Date of final enrolment**

01/08/2008

**Locations****Countries of recruitment**

United Kingdom

Northern Ireland

**Study participating centre**

Royal Victoria Hospital

Belfast

United Kingdom

BT12 6BA

**Sponsor information****Organisation**

The Royal Hospitals (UK)

**ROR**

<https://ror.org/02tdmfk69>

# Funder(s)

## Funder type

Hospital/treatment centre

## Funder Name

The Royal Hospitals (UK)

# Results and Publications

## 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?
<a href="#">Results article</a>	results	01/08/2003		Yes	No
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes