

# The effectiveness and cost-effectiveness of public access defibrillation in urban and rural populations in Northern Ireland

<b>Submission date</b> 20/01/2006	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 30/01/2006	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 18/03/2008	<b>Condition category</b> Circulatory System	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

Not provided at time of registration

## Study website

<http://www.med.qub.ac.uk/nipad>

## Contact information

### Type(s)

Scientific

### Contact name

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### Contact details

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## Additional identifiers

EudraCT/CTIS number

IRAS number

**ClinicalTrials.gov number**

**Secondary identifying numbers**

COM/2371/03

## **Study information**

**Scientific Title**

**Acronym**

Northern Ireland Public Access Defibrillation (NIPAD)

**Study objectives**

Training laypersons such as first responders and police officers to carry and use automated external defibrillators to attend the scene of out-of-hospital sudden cardiac arrests will result in the resuscitation of additional patients by a reduction in the response time compared to the existing emergency medical service response.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

Ethics approval received from the Northern Ireland Research Ethics Committee on the 26th March 2003 (ref: 47/03).

**Study design**

An observational study for one year followed by an intervention using public access defibrillation on the cohort

**Primary study design**

Interventional

**Secondary study design**

Cohort study

**Study setting(s)**

Not specified

**Study type(s)**

Prevention

**Participant information sheet**

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

Out-of-hospital sudden cardiac arrest

**Interventions**

Training lay cardiac first responders and police officers to carry and use automated external defibrillators in response to sudden out-of-hospital cardiac arrest in fixed and mobile locations.

**Intervention Type**

Other

**Phase**

Not Specified

**Primary outcome measure**

1. Survival after hospital discharge following out-of-hospital sudden cardiac arrest
2. Cost-effectiveness of public access defibrillation in the study areas

**Secondary outcome measures**

1. Reduction in response time compared to existing emergency medical services
2. Return of spontaneous circulation
3. The modelling of the results to Northern Ireland as a whole using a spatial modelling approach
4. The modelling of the effectiveness and cost-effectiveness of public access defibrillation across Northern Ireland

**Overall study start date**

01/01/2004

**Completion date**

03/04/2006

**Eligibility****Key inclusion criteria**

All patients with a presumed out-of-hospital sudden cardiac arrest over the age of 14 in Antrim, Ballymena, Magherafelt and North and West Belfast district council areas of Northern Ireland.

**Participant type(s)**

Patient

**Age group**

Adult

**Sex**

Both

**Target number of participants**

300,000 people in study area, expected 300 cardiac arrests

**Key exclusion criteria**

Out-of-hospital sudden deaths due to non-cardiac causes including trauma, drowning, overdose, poisoning and fire.

**Date of first enrolment**

01/01/2004

**Date of final enrolment**

03/04/2006

## **Locations**

### **Countries of recruitment**

Northern Ireland

United Kingdom

### **Study participating centre**

**QUB Centre For Clinical and Population Science**

Belfast

United Kingdom

BT12 6BA

## **Sponsor information**

### **Organisation**

The Research and Development Office for Health and Personal Social Services in Northern Ireland (UK)

### **Sponsor details**

R&D Office

12-22 Linenhall street

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### **Sponsor type**

Government

### **Website**

<http://www.centralservicesagency.n-i.nhs.uk/display>

### **ROR**

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

## **Funder(s)**

### **Funder type**

Government

**Funder Name**

The Research and Development Office for Health and Personal Social Services in Northern Ireland (UK)

## 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?
<a href="#">Results article</a>	Results	01/03/2008		Yes	No