

# The effect of different cardiovascular risk presentation formats on individuals intentions, understanding and emotional affect.

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| <b>Submission date</b><br>19/11/2009   | <b>Recruitment status</b><br>No longer recruiting | <input type="checkbox"/> Prospectively registered    |
|  |   | <input type="checkbox"/> Protocol                    |
| <b>Registration date</b><br>12/01/2010 | <b>Overall study status</b><br>Completed          | <input type="checkbox"/> Statistical analysis plan   |
|  |   | <input checked="" type="checkbox"/> Results          |
| <b>Last Edited</b><br>05/11/2010       | <b>Condition category</b><br>Circulatory System   | <input type="checkbox"/> Individual participant data |

## Plain English summary of protocol

Not provided at time of registration

## Contact information

### Type(s)

Scientific

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## Additional identifiers

### Protocol serial number

n/a

## Study information

**Scientific Title**

The effect of different cardiovascular risk presentation formats on individuals intentions, understanding and emotional affect: A Randomised Controlled Trial using a web-based risk formatter

**Acronym**

myheartrisk

**Study objectives**

The overall aim of this trial is to compare the effects of different graphical cardiovascular risk presentation formats on individuals' intention to reduce risk, understanding of risk information, emotional affect and worry about future heart disease.

The study will be conducted remotely, amongst individuals without established cardiovascular disease, using an on-line cardiovascular risk assessment and questionnaires.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

Ethical approval received from the Medical Dental School Research Ethics Committee (MDSREC), Cardiff University (ref: 09/27)

**Study design**

Randomised controlled trial

**Primary study design**

Interventional

**Study type(s)**

Prevention

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

Primary prevention, cardiovascular risk assessment, patient education

**Interventions**

All respondents access the website remotely. They will be randomly assigned to one of four conditions and will have their risk assessed by answering questions about their risk factors. They will be presented with their 10-year risk of having a coronary heart disease event in one of three formats. All respondents will be asked to complete a post-intervention questionnaire.

Control groups: There are two control groups. The first control comprises a pre-intervention questionnaire and presents risk in a bar graph format. The second control group presents risk in a bar graph format without the pre-intervention questionnaire. These two control groups are to account for the potential Hawthorne effect of the four groups, and enable a comparison of responses between those who are asked to think about their cardiovascular risk before viewing actual risk, against those who are not.

Intervention groups: The two intervention groups present risk in either a pictogram or metonym format.

**Intervention Type**

Other

**Phase**

Not Specified

**Primary outcome(s)**

All outcomes measured by post-intervention questionnaire.

Emotional affect and worry about future heart disease will be assessed at baseline as well.

1. Intention to change behaviour
2. Understanding of risk information
3. Emotional affect
4. Worry about future heart disease

**Key secondary outcome(s)**

Sub-components of Theory of Planned Behaviour relating to reducing cardiovascular risk:

1. Attitudes
2. Subjective norms
3. Perceived behavioural control

**Completion date**

30/06/2010

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

Male and females aged between 45 and 64 years, who have not been previously diagnosed with coronary heart disease

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Sex**

All

**Key exclusion criteria**

1. Below the age of 45 or over the age of 64 years
2. Previous diagnosis of cardiovascular disease
3. Inability to read English
4. Inability to access to a computer with the internet
5. Inadequate IT skills

**Date of first enrolment**

01/01/2010

**Date of final enrolment**

30/06/2010

## Locations

**Countries of recruitment**

United Kingdom

Wales

**Study participating centre**

**Department of Primary Care and Public Health**

Cardiff

United Kingdom

CF14 4YS

## Sponsor information

**Organisation**

Cardiff University (UK)

**ROR**

<https://ror.org/03kk7td41>

## Funder(s)

**Funder type**

University/education

**Funder Name**

Cardiff University (UK)

**Alternative Name(s)**

PRIFYSGOL CAERDYD

**Funding Body Type**

Private sector organisation

**Funding Body Subtype**

Universities (academic only)

## Location

United Kingdom

# 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       | 30/07/2010   |            | Yes            | No              |
| <a href="#">Study website</a>   | Study website | 11/11/2025   | 11/11/2025 | No             | Yes             |