

Clinical Outcomes Utilising Revascularisation and Aggressive Drug Evaluation

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| Submission date 26/09/2005 | Recruitment status No longer recruiting | <input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol |
| Registration date 26/09/2005 | Overall study status Completed | <input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results |
| Last Edited 23/01/2014 | Condition category 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

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number
NCT00007657

Secondary identifying numbers
PCT-15191

Study information

Scientific Title

Acronym

COURAGE

Study objectives

Primary Hypothesis:

The strategy of Percutaneous Coronary Intervention (PCI) plus intensive medical therapy will be superior to intensive medical therapy alone in reducing all cause mortality, non-fatal Myocardial Infarction (MI) or biomarker positive (troponin) acute coronary syndrome patients with documented myocardial ischaemia who meet an American Heart Association (AHA) task force Class I indication for PCI.

Secondary Hypothesis:

Resource utilisation and Quality Of Life (QOL) comparisons and hospitalisation for unstable angina will be superior in PCI plus medical therapy compared to medical therapy alone.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics approval received from the Research Ethics Board of McMaster University on the 8th September 1999.

Study design

Randomised controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Myocardial Ischaemia

Interventions

Both groups: Intensive medical therapy

Experimental group: Percutaneous coronary intervention beside the intensive medical therapy

Trial details received: 12 September 2005

Intervention Type

Other

Phase

Not Specified

Primary outcome measure

Composite of all causes mortality, non-fatal MI and hospitalised acute coronary syndrome with biomarkers (troponin) positively.

Secondary outcome measures

1. Quality of life, assessed at regular intervals during the trial
2. Resource utilisation: Comprehensive information on health care used by COURAGE participants, including the direct in-hospital cost of PCI, other healthcare costs, and indirect costs incurred by patients
3. Hospitalisation for unstable angina with negative biomarkers

Overall study start date

01/06/1999

Completion date

30/06/2006

Eligibility

Key inclusion criteria

Patients (greater than or equal to 18 years old, either sex) eligible for inclusion in COURAGE will comprise all but very high-risk subjects, and will include those with chronic angina pectoris (Canadian Cardiovascular Society [CCS] Class I - III), uncomplicated MI, and asymptomatic (or 'silent') myocardial ischaemia. Patients may have single - or multi-vessel coronary artery disease and may have had prior bypass graft surgery. It is important to emphasize that as many types of Coronary Heart Disease (CHD) patients as possible - reflecting the spectrum of patients encountered in contemporary clinical practice - will be enrolled in COURAGE.

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

2546

Key exclusion criteria

1. Unstable angina and symptoms refractory to maximal oral and intravenous medical therapy (persistent CCS Class IV)
2. Post-MI course complicated by persistent rest angina, shock, and persistent CHF for which the need or likelihood of urgent myocardial revascularisation is high
3. Coronary angiographic exclusions:
 - 3.1. Patients with no prior Coronary Artery Bypass Graft (CABG) and left main coronary disease greater than 50%
 - 3.2. Coronary arteries technically unsuitable or hazardous for PCI
 - 3.3. Patients with non-significant coronary artery disease in whom PCI would not be considered appropriate or indicated
 - 3.4. Ejection fraction less than 30%, except less than 35% if patients has three-vessel disease including greater than 70% Left Anterior Descending (LAD) proximal stenosis
 - 3.5. Cardiogenic shock
 - 3.6. Pulmonary edema or CHF unresponsive to standard medical therapy
 - 3.7. CABG or PCI within the last 6 months
 - 3.8. Concomitant valvular heart disease likely to require surgery or affect prognosis during follow-up
 - 3.9. Congenital or primary cardiac muscle disease likely to affect prognosis during follow-up
 - 3.10. Resuscitated out-of-hospital sudden death or symptomatic sustained or non-sustained ventricular tachycardia
 - 3.11. Significant systemic hypertension (Blood Pressure [BP] greater than 200/100 mmHg) unresponsive to medical therapy

Date of first enrolment

01/06/1999

Date of final enrolment

30/06/2006

Locations

Countries of recruitment

Canada

United States of America

Study participating centre

3U4 McMaster University Medical Centre

Hamilton

Canada

L8N 3Z5

Sponsor information

Organisation

Department of Veteran Affairs, U.S. Federal Government and McMaster University Faculty of Health Sciences (Canada)

Sponsor details

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Administrator
Research Programs
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Sponsor type

Not defined

ROR

<https://ror.org/02fa3aq29>

Funder(s)**Funder type**

Industry

Funder Name

Canadian Institutes of Health Research (CIHR) (Canada) - <http://www.cihr-irsc.gc.ca> (ref: PCT-15191)

Funder Name

Cooperative Studies Program of the Department of Veterans Affairs Office of Research and Development (USA)

Funder Name

Merck and Co. Inc. (USA)

Funder Name

Pfizer Pharmaceuticals (USA)

Funder Name

Bristol-Meyers Squibb Medical Imaging (USA)

Funder Name

Fujisawa Pharmaceuticals (UK)

Funder Name

Kos Pharmaceuticals (USA)

Funder Name

Datascope (USA)

Funder Name

AstraZeneca (USA)

Alternative Name(s)

AstraZeneca PLC, Pearl Therapeutics

Funding Body Type

Government organisation

Funding Body Subtype

For-profit companies (industry)

Location

United Kingdom

Funder Name

Key Pharmaceuticals (Australia)

Funder Name

Sanofi-Aventis (USA)

Funder Name

First Horizon (USA)

Funder Name

Nycomed Amersham (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? |
|----------------------------------|----------|--------------|------------|----------------|-----------------|
| Protocol article | protocol | 15/01/2007 | | Yes | No |
| Results article | results | 29/09/2009 | | Yes | No |
| Results article | results | 30/03/2010 | | Yes | No |
| Results article | results | 01/02/2014 | | Yes | No |