ISRCTN36486884 https://doi.org/10.1186/ISRCTN36486884

The correlation of atrial fibrillation and serum electrolyte level changes after coronary artery bypass grafting surgery

Submission date 24/12/2005	**Recruitment status** No longer recruiting	[_] Prospectively registered [_] Protocol [_] Statistical analysis plan [_] Results [_] Individual participant data [_] Record updated in last year
Registration date 05/01/2006	**Overall study status** Completed	
Last Edited 25/09/2009	**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
N/A

Study information

Scientific Title

Study objectives
Serum electrolyte level changes can influence the incidence of atrial fibrillation

Ethics approval required
Old ethics approval format

Ethics approval(s)
Approval of Kaunas Region Ethics Committee for Biomedical Research No. 89/2003

Study design
Randomized placebo-controlled trial

Primary study design
Interventional

Secondary study design
Randomised controlled trial

Study setting(s)
Hospital

Study type(s)
Not Specified

Participant information sheet

Health condition(s) or problem(s) studied
Atrial fibrillation and serum electrolyte balance disorders

Interventions
Magnesium sulfate infusion versus normal saline as placebo infusion

Intervention Type
Drug

Phase
Not Specified

Drug/device/biological/vaccine name(s)
Magnesium sulphate

Primary outcome measure
The incidence of atrial fibrillation in both groups

Secondary outcome measures

Correlation between serum electrolyte balance and incidence of atrial fibrillation

Overall study start date
01/01/2004

Completion date
30/05/2005

Eligibility

Key inclusion criteria
1. Men undergoing elective coronary artery bypass grafting for ischemic heart disease
2. Serum electrolyte leves within normal ranges
3. No diabetes, pulmonary, liver and renal disfunction disease
4. Sinus rhythm before the surgey
5. No atrial fibrillation in the past

Participant type(s)
Patient

Age group
Adult

Sex
Male

Target number of participants
165 patients

Key exclusion criteria
1. Excessive bleeding after the surgery
2. The need of electric heart stimulation after the surgery
3. The need of vasoactive agents after the surgery

Date of first enrolment
01/01/2004

Date of final enrolment
30/05/2005

Locations

Countries of recruitment
Lithuania

Study participating centre
Eiveniu 2
Kaunas

Lithuania
3000

Sponsor information

Organisation
Kaunas Medical University, Institute for Biomedical Research (Lithuania)

Sponsor details
Eiveniu 2
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Sponsor type
University/education

ROR
https://ror.org/0069bkg23

Funder(s)

Funder type
University/education

Funder Name
Support was provided from departmental sources: Department of Anaesthesiology and Intensive Care, Clinic of Cardiac Surgery, Heart Center, Kaunas Medical University, Lithuania

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