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

Recruitment status	Prospectively registered		
No longer recruiting	☐ Protocol		
Overall study status	Statistical analysis plan		
Completed	Results		
Condition category Circulatory System	Individual participant data		
	Record updated in last year		
	No longer recruiting Overall study status Completed Condition category		

Plain English summary of protocol

Not provided at time of registration

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

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

Sponsor information

Organisation

Kaunas Medical University, Institute for Biomedical Research (Lithuania)

Sponsor details

Eiveniu 2 Kaunas Lithuania 3000 sirdiskr@kmu.lt

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