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

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

Plain English summary of protocolNot provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

Protocol serial number 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

Study type(s)

Not Specified

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(s)

The incidence of atrial fibrillation in both groups

Key secondary outcome(s))

Correlation between serum electrolyte balance and incidence of atrial fibrillation

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

Healthy volunteers allowed

No

Age group

Adult

Sex

Male

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)

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

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration