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Ivabradine versus metoprolol for heart rate reduction before coronary computed tomography angiography: a randomised trial

Submission date	Recruitment status	[_] Prospectively registered
21/09/2009	No longer recruiting	[_] Protocol
Registration date	**Overall study status**	[_] Statistical analysis plan
01/10/2009	Completed	[_] Results
Last Edited	**Condition category**	[_] Individual participant data
07/09/2011	Circulatory System	[_] Record updated in last year

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Study information

Scientific Title
Oral premedication with ivabradine versus metoprolol for heart rate reduction before coronary computed tomography angiography: a randomised trial

Study objectives
1. Oral premedication with either ivabradine or metoprolol provides sufficient heart rate control in patients before coronary computed tomography angiography
2. Ivabradine leads to less blood pressure drop compared to metoprolol

Ethics approval required
Old ethics approval format

Ethics approval(s)
Ethics Committee of the Privatklinik Josefstadt approved on the 18th January 2007 (ref: 002 /2007)

Primary study design
Interventional

Study design
Interventional single centre single-blind randomised study

Study type(s)
Treatment

Health condition(s) or problem(s) studied
Coronary artery disease

Interventions
Oral medication with 15 mg ivabradine versus 50 mg metoprolol before coronary computed tomography angiography. Drugs were administered once with a one-time follow-up 1 - 3 hours after intervention.

Intervention Type
Drug

Phase
Phase IV

Drug/device/biological/vaccine name(s)
Ivabradine, metoprolol

Primary outcome(s)
Heart rate reduction 60 - 180 minutes after medication

Key secondary outcome(s)
Systolic blood pressure before versus after medication

Completion date
31/05/2008

Eligibility

Key inclusion criteria
1. Sinus rhythm
2. Heart rate greater than or equal to 60 bpm
3. Systolic blood pressure greater than or equal to 100 mmHg
4. Aged greater than or equal to 19 years irrespective of gender

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Adult

Sex
All

Key exclusion criteria
1. Known allergy to iodinated contrast media
2. Impaired renal function (creatinine serum level greater than 1.5 mg/dl)
3. Thyroid disorder
4. Unstable clinical condition
5. Frequent premature heartbeats
6. Sick-sinus-syndrome
7. Sinoatrial block
8. Second or third degree AV-block
9. Previous pacemaker implantation

Date of first enrolment
01/03/2007

Date of final enrolment
31/05/2008

Locations

Countries of recruitment
Austria

Study participating centre
Waehringer Guertel 18-20
Vienna
Austria
1090

Sponsor information

Organisation
Medical University of Vienna (Austria)

ROR
https://ror.org/05n3x4p02

Funder(s)

Funder type
University/education

Funder Name
Medical University of Vienna (Austria)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration