# 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

#### Contact name

Dr Philipp Pichler

#### Contact details

Waehringer Guertel 18-20 Vienna Austria 1090

#### Additional identifiers

**Protocol serial number** N/A

# 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)

#### Study design

Interventional single centre single-blind randomised study

#### Primary study design

Interventional

#### 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

#### **Study outputs**

Output type Details Date created Date added Peer reviewed? Patient-facing?

Participant information sheet 11/11/2025 No Yes