# Intra-coronary freshly isolated bone marrow cells transplantation improve cardiac function in patients with ischemic heart disease

Submission date	Recruitment status No longer recruiting	<ul><li>Prospectively registered</li></ul>		
23/11/2011		Protocol		
Registration date	Overall study status	Statistical analysis plan		
23/12/2011	Completed	[X] Results		
Last Edited	Condition category	Individual participant data		
06/10/2016	Circulatory System			

#### Plain English summary of protocol

Background and study aims:

Ischemic heart disease occurs when the heart's blood supply is blocked or interrupted by a build-up of fatty substances in the coronary arteries. The main symptoms are chest pain, heart attacks and heart failure. Cell therapy is a promising new treatment option. The aim of this study is to find out whether transplantation of a patient's bone marrow stem cells into their heart has beneficial effects on their heart function.

Who can participate?

Patients aged 18 - 80 who have had a heart attack in the last 3 months

What does the study involve?

There are two groups of patients in this study. Both groups undergo coronary angiography, a test that uses dye and x rays to show the insides of the coronary arteries. One group receives cell therapy, while the other group does not receive cell therapy. Heart function is assessed at the start and 6 months later.

What are the possible benefits and risks of participating? Not provided at time of registration

Where is the study run from?
University Hospital of Rostock (Germany)

When is the study starting and how long is it expected to run for? February 2009 to June 2010

Who is funding the study? University Hospital of Rostock (Germany)

Who is the main contact? Dr R Gökmen Turan

## Contact information

#### Type(s)

Scientific

#### Contact name

Dr R. Gökmen Turan

#### Contact details

Medical Faculty of the University of Rostock Patriostischer weg 24 Rostock Germany 18057

## Additional identifiers

#### Protocol serial number

2009/2

## Study information

#### Scientific Title

Intra-coronary freshly isolated bone marrow cells transplantation improve cardiac function in patients with ischemic heart disease: a non-randomised study

### **Study objectives**

In this study we analyzed whether intracoronary autologous freshly isolated bone marrow cells transplantation (BMCs-Tx) have beneficial effects on cardiac function in patients with ischemic heart disease (IHD)

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Ethics Committee, University Rostock, Germany, 14/12/2008, ref: II PV 11/01

## Study design

Non-randomized controlled study

## Primary study design

Interventional

## Study type(s)

Treatment

## Health condition(s) or problem(s) studied

Ischemic heart disease

#### **Interventions**

There are two groups, both groups underwent coronary angiography, first group received additional cell therapy, second group serve as control group received only coronary angiography without cell therapy.

#### Intervention Type

Procedure/Surgery

#### Primary outcome(s)

The change in global ejection fraction (EF) as well as the size of infarcted area measured baseline and 6 months after coronary angiography in both groups.

#### Key secondary outcome(s))

The functional status by New York Heart Association (NYHA) classification and Brain natriuretic peptide (BNP) level in peripheral blood measured baseline and 6 months after coronary angiography in both groups.

#### Completion date

01/06/2010

# **Eligibility**

#### Key inclusion criteria

- 1. Patients between 18-80 years of age
- 2. Had a documented myocardial infarction (MI) at least 3 months
- 3. Had a clear-cut demarcated region of the left ventricular dysfunction with and open infarct related coronary artery

#### Participant type(s)

Patient

#### Healthy volunteers allowed

No

#### Age group

Adult

#### Lower age limit

18 years

#### Upper age limit

80 years

#### Sex

All

#### Kev exclusion criteria

- 1. Presence of acutely decompensated heart failure with NYHA class of IV
- 2. Infectious or inflammatory disease
- 3. Active bleeding

- 4. Surgery or trauma within 2 months
- 5. Renal or liver dysfunction
- 6. Tthrombocytopenia or anemia
- 7. Alcohol or drug dependency
- 8. A history of other severe chronic diseases or cancer
- 9. Unwillingness to participate

#### Date of first enrolment

01/02/2009

#### Date of final enrolment

01/06/2010

## Locations

#### Countries of recruitment

Germany

#### Study participating centre Medical Faculty of the University of Rostock

Rostock Germany 18057

# Sponsor information

#### Organisation

University Hospital of Rostock (Universitätsklinikum Rostock) (Germany)

#### **ROR**

https://ror.org/04dm1cm79

# Funder(s)

#### Funder type

University/education

#### **Funder Name**

University Hospital of Rostock (Germany)

# **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?
Results article	results	25/04/2012	Yes	No
Participant information sheet	Participant information sheet	11/11/2025 11/11/2025	No	Yes