



| Home | Advanced Search | List By | Search Tips | UTN | • | ICTRP website | • | REGTRAC | Contact us |
|------|-----------------|---------|---------------------------------|-----|---|---------------|---|---------|------------|
|------|-----------------|---------|---------------------------------|-----|---|---------------|---|---------|------------|

Main

Note: This record shows only 22 elements of the WHO Trial Registration Data Set. To view changes that have been made to the source record, or for additional information about this trial, click on the URL below to go to the source record in the primary register.

| Register: | | EUCTR | | | | | | | | | |
|--------------------------|-------------------------------------|--|--------------|---|--|--|--|--|--|--|--|
| Last refreshed on: | | 2 February 2015 | | | | | | | | | |
| Main ID: | | EUCTR2012-004406-10-CZ | | | | | | | | | |
| Date of registra | tion: | 25/07/2013 | | | | | | | | | |
| Prospective Re | gistration: | Yes | | | | | | | | | |
| Primary sponsor: | | University Hospital Hradec Kralove | | | | | | | | | |
| Public title: | | The use of oxygen-hydrogen mixture as an antioxidant | | | | | | | | | |
| Scientific title: | | The use of oxygen and hydrogen mixture for inhalation to prevent ischaemia-reperfusion injury - "Hydrogen" | | | | | | | | | |
| Date of first enrolment: | | 09/10/2013 | | | | | | | | | |
| Target sample s | size: | | | | | | | | | | |
| Recruitment sta | atus: | Authorised-recruitment may be ongoing or finished | | | | | | | | | |
| URL: | | https://www.clinicaltrialsregister.eu/ctr-search/search?query=eudract_number:2012-004406-10 | | | | | | | | | |
| Study type: | | Interventional clinical trial of medicinal product | | | | | | | | | |
| Study design: | | Controlled: yes Randomised: no Open: yes Single blind: no Double blind: no Parallel group: yes Cross over: no Other: no If controlled, specify comparator, Other Medicinial Product: no Placebo: no Other: yes Other specify the comparator: Standard oxygen therapy (FiO2 40%) Number of treatment arms in the trial: 2 | | | | | | | | | |
| Phase: | | | | | | | | | | | |
| Countries of rec | ruitment | | | | | | | | | | |
| Czech Republic | | | | | | | | | | | |
| Contacts | | | | | | | | | | | |
| Name: | Center for Research and Development | | Name: | Center for Research and Development | | | | | | | |
| Address: | Sokolska 581 500 | 05 Hradec Kralove Czech Republic | Address: | Sokolska 581 500 05 Hradec Kralove Czech Republic | | | | | | | |
| Telephone: | 420495832241 | | Telephone: | 420495832241 | | | | | | | |
| Email: | rhyspler@lfhk.cun | pler@lfhk.cuni.cz | | rhyspler@lfhk.cuni.cz | | | | | | | |
| Affiliation: | University Hospita | l Hradec Kralove | Affiliation: | University Hospital Hradec Kralove | | | | | | | |
| Key inclusion & | exclusion criteria | | | | | | | | | | |
| nclusion criteria: | | | | | | | | | | | |

The patients, aged 50-75 years (postmenopausal women only), suffering from acute myocardial infarction, transmural, originating from large vessel damage, will be included in the study. There cannot be any previous myocardial infarction, any previous cardiosurgery or cardiogenic shock present (Kyllip 1-3). Are the trial subjects under 18? no

Number of subjects for this age range:

F.1.2 Adults (18-64 years) yes

F.1.2.1 Number of subjects for this age range 30 F.1.3 Elderly (>=65 years) yes

F.1.3.1 Number of subjects for this age range 30

Exclusion criteria:

Cardiogenic shock development, participation in another study, previus cardiosurgery, impossibility of primary PCI, diabetic decompensation, serious anamnestic nephropathy, serius anamnestic hepatopathy, cancer disease at present or previous five years, other serious comorbidities.

Age minimum: Age maximum: Gender: Female: yes Male: yes

Health Condition(s) or Problem(s) studied

Therapeutic area: Diseases [C] - Cardiovascular Diseases [C14]

The patients suffering form acute transmural myocardial infarction and treated with percutaneous transluminal coronary angioplasty will be included in the study. After the recanalisation of occluded artery, the reperfusion injury develops and the regeneration of ischemic tissue is impaired. The reactive oxygen species are partly responsible for reperfusion injury pathogenesis. Intervention(s)

Product Name: Nitrogen-oxygen-hydrogen gas mixture (58%-40%-2%, respectively) for inhalation Pharmaceutical Form: Medicinal gas, compressed INN or Proposed INN: OXYGEN Other descriptive name: oxygen gas Concentration unit: % (V/V) percent volume/volume Concentration type: equal Concentration number: 40-

Primary Outcome(s)

Primary end point(s): The primary end-point is the effectivity evaluation of inhalational application of oxygen-hydrogen mixture against conventional oxygenotherapy on residual myocardial damage.

Timepoint(s) of evaluation of this end point: Visit 1: Patient iclusion into the study (day 0) Visit 2: The end of coronary angioplasty (day 0) Visit 3:Admission to ICU (day 0)

Visit 4: The morning of following day (day 1)Visit 5: The morning of following day (day 2) Visit 6: The day of patient discharge.

Secondary Objective: Althouth there are not any available data regarding hydrogen toxicity and 2% concentration is low, the safety of oxygen - hydrogen mixture must be validated in the situation of acute coronary angioplasty.

Main Objective: Due to the fast growing body of information regarding positive effects of oxygen - hydrogen mixtures in various clinical conditions, it is necessary to evaluate its positive potential in the case of acute coronary angioplasty, where its fast diffusibility is especially profitable.

Secondary Outcome(s)

Timepoint(s) of evaluation of this end point: Visit 1: Patient iclusion into the study (day 0) Visit 2: The end of coronary angioplasty (day 0) Visit 3:Admission to ICU (day 0) Visit 4: The morning of following day (day 1)Visit 5: The morning of following day (day 2)

Visit 6: The day of patient discharge.

Secondary end point(s): The secondary end-point is the safety evaluation of inhalational application of oxygen(40%) -hydrogen (2%) mixture during coronary angioplasty.

Secondary ID(s)

000

Source(s) of Monetary Support

University Hospital Hradec Kralove

Secondary Sponsor(s)

Ethics review Results

Results available:

Date Posted:

Date Completed:

URL:

Disclaimer: Trials posted on this search portal are not endorsed by WHO, but are provided as a service to our users. In no event shall the World Health Organization be liable for any damages arising from the use of the information linked to in this section. None of the information obtained through use of the search portal should in any way be used in clinical care without consulting a physician or licensed health professional. WHO is not responsible for the accuracy, completeness and/or use made of the content displayed for any trial record.

Copyright - World Health Organization - Version 3.6 - Version history