

Effects of resveratrol combined with calcium fructoborate (Fruitex B) in patients with stable angina pectoris

Submission date 21/03/2010	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 25/03/2010	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 25/03/2010	Condition category Circulatory System	<input type="checkbox"/> Individual participant data <input type="checkbox"/> 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

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers
Research Project no.13/2010

Study information

Scientific Title

Effects of resveratrol combined with calcium fructoborate (Fruitex B) in patients with stable angina pectoris. A 60 days double-blind-controlled pilot study

Acronym

Res-FruitexB

Study objectives

The purpose of this study is to assess the short-term effects of Resveratrol combined with Calcium Fructoborate on the clinical and inflammatory status of patients presenting with stable angina pectoris.

Resveratrol, a polyphenol phytoalexin, possesses diverse biochemical and physiological actions, including estrogenic, antiplatelet, and anti-inflammatory properties. Resveratrol has been shown to improve health and slow the progression of disease in various models. Several cardioprotective mechanisms have been identified including antioxidant, anti-inflammatory, and anti-fibrotic actions. Each of these actions is thought to have the ability to attenuate the pathophysiology underlying the cardiac structural remodelling which results from acute myocardial infarction. Both in acute and in chronic models, resveratrol attenuates myocardial ischemic reperfusion injury, atherosclerosis, and reduces ventricular arrhythmias.

Boron compounds are known to show a variety of different biological activities. The soluble carbohydrate compounds of B buffer the reactive species of oxygen by developing organic peroxyborates. Boron exhibits inhibitory action on various enzymes, and particularly on prostaglandin endoperoxide synthases COX-1 and COX-2.

It is more ethically justified to use active components in each group. Therefore this is a comparative study rather than placebo-controlled study. Besides, it may show synergy between FrxB and Resveratrol.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Institutional Ethics Committee of the Cardiology Center of University of Medicine and Pharmacy of Craiova, Romania, approved in February 2010 (ref: 400/2010)

The trial is also in compliance with the Helsinki Declaration of 1975 as revised in 1983

Study design

Randomised double blind active controlled parallel group trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Other

Study type(s)

Treatment

Participant information sheet

Not available in web format, please use contact details below to request a patient information sheet

Health condition(s) or problem(s) studied

Stable angina pectoris

Interventions

The study was double-blind and controlled. Patients will be randomised to the following groups

1. Combination of FrxB (120mg) with Resveratrol (10mg)
2. FrxB only
3. Resveratrol only

Study drugs will be taken orally and daily over 60 days. There will be no follow up beyond the end of the intervention.

Intervention Type

Other

Phase

Not Specified

Primary outcome measure

1. Ischemic cardiovascular events
2. The quality of life (Seattle Angina Questionnaire)
3. Serum High-Sensitivity C-Reactive Protein (hsCRP)

All outcomes will be assessed at baseline and at the end of the study period (2 months)

Secondary outcome measures

1. Cardiac arrhythmias, assessed by standard transthoracic echocardiography (ECG)
2. Other cardiovascular markers
 - 2.1. Sodium
 - 2.2. Potassium
 - 2.3. Creatinine
 - 2.4. Alanine aminotransferase (ALT)
 - 2.5. Aspartate aminotransferase (AST)
 - 2.6. Fasting plasma glucose
 - 2.7. Total cholesterol
 - 2.8. Low Density Lipoprotein (LDL)-cholesterol
 - 2.9. High Density Lipoprotein (HDL)-cholesterol
 - 2.10. N-terminal prohormone brain natriuretic peptide (NT-proBNP)

All outcomes will be assessed at baseline and at the end of the study period (2 months)

Overall study start date

30/03/2010

Completion date

30/09/2010

Eligibility

Key inclusion criteria

1. Male or female patients \geq 18 years
2. Diagnosis of angina pectoris (Class II-IV, Canadian Cardiology Society)
3. Informed consent obtained at selection

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

100 patients

Key exclusion criteria

1. Unlikely to cooperate in the study
2. Legal incapacity or limited legal incapacity
3. Women who are pregnant, breast-feeding or women of childbearing potential
4. Participation in another drug or device trial at the same time or within the previous 30 days (or within 5 drug half-lives of the investigational drug, or within the time legally required by regulatory authorities, whichever are longer)
5. Known alcohol or drug abuse, known moderate or severe liver disease (Child-Pugh score $>$ 7) or known severe renal disease (serum creatinine $>$ 220 micromoles/L) or known anaemia (blood haemoglobin $<$ 11 g/L)

Date of first enrolment

30/03/2010

Date of final enrolment

30/09/2010

Locations

Countries of recruitment

Romania

Study participating centre

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Sponsor information

Organisation

Natural Research, Ltd (Romania)

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Sponsor type

Industry

Website

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Funder(s)

Funder type

Industry

Funder Name

Natural Research, Ltd (Romania) - Research Project (ref: 13/2010)

Funder Name

Cardiology Centre of University of Medicine and Pharmacy of Craiova (Romania)

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration