The effect of acute stress on coagulation and the immune system

Published: 17-08-2007 Last updated: 08-05-2024

To evaluate whether acute stress induced by a byngy jump alters the status of the innate immune system

Ethical review	Approved WMO
Status	Pending
Health condition type	Haematological disorders NEC
Study type	Interventional

Summary

ID

NL-OMON31077

Source ToetsingOnline

Brief title Stress and immunity

Condition

- Haematological disorders NEC
- Immune disorders NEC

Synonym coagulation activation, immune activation

Research involving Human

Sponsors and support

Primary sponsor: Academisch Medisch Centrum Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: catecholamines, coagulation, immune system, Stress

Outcome measures

Primary outcome

Ex vivo stimulation of peripheral blood and cytokine levels after this

activation. Status pre and post bungy jump will be compared.

Secondary outcome

activation of coagulation after a bungy jump

Study description

Background summary

The sympathetic nervous system and catecholamines are important regulators of the immune system in murine and ex vivo studies. In this study we evalute the effect of acute stress and catecholamines on the immune system in humans.

Study objective

To evaluate whether acute stress induced by a byngy jump alters the status of the innate immune system

Study design

Twenty healthy volunteers are included and will undergo blood sampling before and after a bungy jump. Half of the volunteers will be pretreated with propranolol starting 3 days before the bungy jump.

Intervention

IV cannulation. Propranolol during several days in half of the volunteers.

Study burden and risks

Burden and risks are related to the use of propranolol (side effects) and an IV catheter (during 4 hours). The bungy jump perse is not included in the study

risks since the volunteers would have undergone the jump anyway.

Contacts

Public

Academisch Medisch Centrum

Meibergdreef 9 1105 AZ Amsterdam Nederland **Scientific** Academisch Medisch Centrum

Meibergdreef 9 1105 AZ Amsterdam Nederland

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years) Elderly (65 years and older)

Inclusion criteria

healthy young males 18-35 years old who have indicated that they are eager to perform a bungy jump

Exclusion criteria

active disease asthma

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Study design

Design

Study type: Interventional	
Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Basic science

Recruitment

NI

Recruitment status:	Pending
Start date (anticipated):	01-09-2007
Enrollment:	20
Туре:	Anticipated

Medical products/devices used

Product type:	Medicine
Brand name:	Propranolol
Generic name:	Propranolol
Registration:	Yes - NL outside intended use

Ethics review

Approved WMO
Application type:
Review commission:

First submission METC Amsterdam UMC

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
EudraCT	EUCTR2007-003150-29-NL
ССМО	NL18165.018.07