

Acute effects of a single dose 40 mg cortisol on mental functions.

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To further study effects of a single administration of cortisol, compared to placebo, on different aspects of attention and other cognitive processing of emotionally relevant information in healthy young men. This should provide new information on...

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Anxiety disorders and symptoms
Study type	Interventional

Summary

ID

NL-OMON32249

Source

ToetsingOnline

Brief title

cortisol and mental functions.

Condition

- Anxiety disorders and symptoms

Synonym

biased cognition, selective attention

Research involving

Human

Sponsors and support

Primary sponsor: Universiteit Leiden

Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: attention, cortisol, emotion, inhibition

Outcome measures

Primary outcome

Performance patterns (measured as response latencies and accuracy scores) on various computertests measuring emotional-cognitive behaviour.

Secondary outcome

N/A

Study description

Background summary

Earlier reports in the scientific literature suggest that exogenous cortisol can have acute effects on (attentive) cognitive processing of threat related stimuli. This must be replicated and extended and it needs to be specified to which aspects of attention and to which classes of stimuli this applies.

Study objective

To further study effects of a single administration of cortisol, compared to placebo, on different aspects of attention and other cognitive processing of emotionally relevant information in healthy young men. This should provide new information on the role that cortisol and related hormones play in processes of emotion regulation that appear to play a role in various psychopathologies. This mainly serves a fundamental scientific goal.

Study design

Two doubleblind, placebo-controlled cross over experiments will be performed (in two separate groups) to test acute effects of 40 mg hydrocortisone on performance of various cognitive computertests. The two experiments will have identical designs to the extent that only the specific computertests to be performed will vary between the groups.

Intervention

Subjects will be administered once placebo and once 40 mg hydrocortisone.

Study burden and risks

The principal burden probably lies in the time investment made by the subjects (up to six hours) to participate in the study. Several employed stimuli may be considered disturbing (e.g., bloody, and frightening pictures or erotic words). Performance of several cognitive tests may be experienced as tiring or boring. Single administration of 40 mg hydrocortisone does not lead to subjectively noticeable effects on physical or mental functioning and is safe and harmless.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years)

Elderly (65 years and older)

Inclusion criteria

Good physical health.

Age >17 & <31.

Male.

Exclusion criteria

Use of medication.

History of endocrine or neurological illness.

Current psychiatric treatment.

Study design

Design

Study type:	Interventional
Intervention model:	Crossover
Allocation:	Randomized controlled trial
Masking:	Double blinded (masking used)
Control:	Placebo
Primary purpose:	Other

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	01-03-2008
Enrollment:	60
Type:	Anticipated

Ethics review

Approved WMO

Application type: First submission

Review commission: METC Leids Universitair Medisch Centrum (Leiden)

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
CCMO	NL21249.058.07