Acute effects of 40 mg cortisol on mental functions II

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The closer examination of acute effects of a single administration cortisol. compared to placebo, on different aspects of attention and other cognitive processing of emotionally relevant stimuli in healthy young men. The central question is what...

Ethical review Approved WMO

Status Recruitment stopped

Health condition type Anxiety disorders and symptoms

Study type Interventional

Summary

ID

NL-OMON35558

Source

ToetsingOnline

Brief title

cortisol and mental functions II

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: NWO vernieuwingsimpuls (veni) op naam

van Dr. P. Putman

Intervention

Keyword: attention, cortisol, emotion, HPA

Outcome measures

Primary outcome

Patters of performance (measured as response times and accuracy) on different

computertests measuring emotional cognitive

behavior and non-invasive psychophysiological measures.

Secondary outcome

N/A

Study description

Background summary

Rationale: Earlier reports in de scientific literature and other studeis of the present researcher suggest that exgoneous cortisol can have acute effects on the (attentive) cognitive processing of threat-related stimuli. Results obtained with several different cognitive and psychophysiological methods do however not always overlap in detail. A factor that seems to be of relevance is if the emotional stimuli are relevant or irrelevant to task performance, This needs to be specified and tested by means of systematic manipulation of this factor.

Study objective

The closer examination of acute effects of a single administration cortisol. compared to placebo, on different aspects of attention and other cognitive processing of emotionally relevant stimuli in healthy young men. The central question is what role taskrelevance of the emotional stimuli plays. This can provied new information about the role that cortisol plays in processes of emotion regulation which are important in affective disorders. This mainly serves a fundamental scientific purpose.

Study design

A doubleblind, placebo-controlled cross over experiment to test acute effects of 40 mg hydrocortisone on performance on different cognitive computertests.

Intervention

Participants will receive placebo and 40 mg hydrocortisone once.

Study burden and risks

Burden, risks and benefits for participants: De main bnurden for the aprticipan probably lies in the time investment (approximately 6 hours). Performance of several cognitively mildly taxing computertasks can be experienc4ed as boring or tiresome. Single adminstration of 40 mg hydrocortisone does not lead to subjectively noticeable effects on physical of mental functioning and is safe and non-hazardous. Other than a relatively small monetary incentive (50 euro's) there is no direct benefit for participation to the study.

Contacts

Public

Universiteit Leiden

Wassenaarseweg 52 2300 RB Leiden NL **Scientific**

Universiteit Leiden

Wassenaarseweg 52 2300 RB Leiden NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

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

Inclusion criteria

good physical health 17 < age < 31 years male

Exclusion criteria

- -use of prescription mediaction
- -history of psychiatric, neurologic, or endocrine illness

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): 19-04-2012

Enrollment: 24

Type: Actual

Ethics review

Approved WMO

Date: 03-02-2012

Application type: First submission

Review commission: METC Leiden-Den Haag-Delft (Leiden)

metc-ldd@lumc.nl

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 NL38018.058.11