Conditioning cortisol

Gepubliceerd: 18-06-2014 Laatst bijgewerkt: 15-05-2024

Conditioning with hydrocortisone will result in altered endogenous cortisol during rest in the evocation phase.

Ethische beoordeling	Positief advies
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON20814

Bron
NTR

Verkorte titel
CONCO

Aandoening

This study will be conducted in healthy volunteers.

Ondersteuning

Primaire sponsor: Leiden University
Health, Medical, and Neuropsychology Unit
Institute of Psychology
Faculty of Social and Behavioural Sciences
Overige ondersteuning: Governement funding

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The main study parameter is the AUCg of endogenous cortisol during rest in the evocation phase.

Toelichting onderzoek

Achtergrond van het onderzoek

Background:

Preliminary evidence suggests that it might be possible to condition endogenous cortisol, with subsequent psychophysiological effects. In a pilot study with ten participants, promising indications were found for conditioned effects on endogenous cortisol levels and other psychophysiological outcomes. When more systematic research in a larger sample would support these findings, the ability to condition cortisol could offer new therapeutic possibilities.

The aim of this study is to investigate the effects of conditioning with hydrocortisone on endogenous cortisol. Effects of conditioning on endogenous cortisol in response to a short-term psychosocial stress task and other psychophysiological outcomes will also be explored.

Study design:

In line with previous conditioning studies as well as the previous pilot study in ten participants with an analogous design conducted by the research group, a randomized placebo-controlled conditioning paradigm consisting of 2 phases will be applied. In the acquisition phase, consisting of 3 sessions on 3 consecutive days, an unconditioned stimulus (experimental condition: hydrocortisone pill; control condition: placebo pill) is paired with a conditioned stimulus (novel tasting beverage). In the evocation phase, also consisting of 3 sessions on 3 consecutive days a week after the acquisition phase, all participants will be administered a placebo pill paired with the same beverage as in the acquisition phase. Cortisol, alpha-amylase, and self-reported well-being will be measured at several time points during the 6 acquisition and evocation sessions. During each session, participants will also be asked to perform some cognitive tasks and during the last session participants will be exposed to a short-term psychosocial stress task.

Doel van het onderzoek

Conditioning with hydrocortisone will result in
altered endogenous cortisol during rest in the evocation phase.

Onderzoeksopzet

During the sessions, cortisol, alpha-amylase and self-reported well-being are measured at several time points

Onderzoeksproduct en/of interventie

In the experimental group, cortisol is elevated exogenously on three consecutive days by administration of 100 mg hydrocortisone. In the control group, a placebo is administered at the same time points.

Contactpersonen

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

healthy, female, premenopausal, 18-30 years of age

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Somatic and/or psychiatric diseases, symptoms of infection, use of medication (including oral contraceptives), recent stressful life events

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blindering:	Dubbelblind
Controle:	Placebo

Deelname

Nederland

Status:	Werving gestart
(Verwachte) startdatum:	20-06-2014
Aantal proefpersonen:	48
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies

Datum:	18-06-2014
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 47397
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL4409
NTR-old	NTR4651
CCMO	NL47105.058.14
OMON	NL-OMON47397

Resultaten