Neural mechanisms of oxytocin

Gepubliceerd: 24-09-2008 Laatst bijgewerkt: 18-08-2022

Oxytocin has effect on neural areas involved in human social emotional functioning

Ethische beoordeling	Niet van toepassing
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON25752

Bron
NTR

Verkorte titel
Neural mechanisms of OT

Aandoening

fundamental study in underlying mechanisms of social behaviour

Ondersteuning

Primaire sponsor: J. van Honk
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Overige ondersteuning: high potential grant Utrecht University

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Differences in blood oxygen level dependent (BOLD) response between OT administration and placebo will be measured.

Toelichting onderzoek

Achtergrond van het onderzoek

To gain insight in the neurobiological mechanisms behind oxytocin effects on human social-emotional behaviour, the following study will investigate the neural mechanisms of human sociality combined with oxytocin administration. A within subjects, double-blind counterbalanced placebo controlled design will be used. One group of subjects will participate in both experimental and placebo condition. Procedures on both days are identical and consist of an explanation of the tasks to be performed, the administration (placebo or OT nasal spray) followed by an functional Megnatic Resonance Imaging scan during which 3 tasks investigating the neural mechanisms of social are to be performed and an anatomical scan is made. Contrasting task related Blood oxygen level dependent activation within the group between placebo and OT can show specific activation related to OT administration.

Doel van het onderzoek

Oxytocin has effect on neural areas involved in human social emotional functioning

Onderzoeksopzet

2 timepoints, 1 for placebo, 1 for experimental condition

Onderzoeksproduct en/of interventie

Participants will self-administer 24 IU OT nasal spray. This nasal spray contains a synthetic version of OT which is identical to the human pituitary version of OT under the registered name Syntocinon. The placebo condition will consist of the same nasal administration without the active ingredient OT. Nasal spray administration is an effective way of delivering OT in the central nervous system via the nasal mucous membrane, without substantial side effects (Born et al., 2002; Kosfeld et al., 2005).

Contactpersonen

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. Good health

2. Age between 18 and 30

3. Normal or corrected to normal vision

4. Right-handedness

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Oversensitivity for OT or carrier

2. Use of psychotropic medication, or of recreational drugs over a period of two weeks prior to each experiment, and no use of alcohol within the last 24 hours before each measurement.

3. Habitual smoking

4. History of psychiatric treatment or current psychiatric treatment

5. History of neurological treatment or current neurological treatment

6. History of endocrinological treatment or current endocrinological treatment

7. Irremovable ferrous objects in or around the body (e.g. pacemaker, stents, splinters)

8. History of closed head injury

9. History of epilepsy

10. Claustrophobia

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Cross-over
Toewijzing:	Gerandomiseerd
Blindering:	Open / niet geblindeerd
Controle:	Placebo

Deelname

Nederland

Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-01-2009
Aantal proefpersonen:	20
Type:	Verwachte startdatum

Ethische beoordeling

Niet van toepassing

Soort:	Niet van toepassing

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL1394
NTR-old	NTR1454
Ander register	:
ISRCTN	ISRCTN wordt niet meer aangevraagd

Resultaten

Samenvatting resultaten
N/A