Oxytocin, friendship and dealing with emotions

Published: 07-03-2017 Last updated: 15-05-2024

Objectives: 1) To investigate whether attachment security, autonomy-connectedness, and childhood experiences moderate effects of social support during stress; 2) To investigate the influence of oxytocin on the ability to be close to others (in an...

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Other condition
Study type	Interventional

Summary

ID

NL-OMON45277

Source ToetsingOnline

Brief title Oxytocin and friendship

Condition

• Other condition

Synonym stress reactivity

Health condition

stress reactiviteit

Research involving Human

Sponsors and support

Primary sponsor: Universiteit van Tilburg Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: attachment, oxytocin, social support, Stress reactivity

Outcome measures

Primary outcome

Main study parameters/endpoints: The main outcome is stress reactivity

(self-reported stress and physiological reactivity) during the Trier social

stress test and Cold pressor test, as a function of oxytocin and social support

status. Oxytocin is hypothesized to moderate the stress-buffering effects of

social support. Another endpoint is interpersonal distance (distance between

participant and a virtual person)

Secondary outcome

Other moderators of the effect of oxytocin include attachment, parenting styles

and autonomy-connectedness.

Study description

Background summary

Rationale: Susceptibility for stress-related psychopathology, e.g. anxiety disorders, may arise in part when individuals are not able to form stable, long-lasting bonds, and to profit from the stress-buffering effects of social support. Oxytocin has been shown to play an important role in attachment to others and prosocial behaviour. However, it is yet unclear whether, how, and for whom oxytocin may be used in a clinical setting, most notably because many individual differences exist in the stress-buffering effects of oxytocin. We hypothesize that oxytocin may increase the stress-buffering effects of social support, but that this effect depends on individual variations in attachment, parenting styles and autonomy-connectedness. These effects may also be more pronounced in socially stressful situations, compared with a general stressor. Further, in line with the hypothesis that interpersonal functioning is essential for psychological well-being, this study tests whether oxytocin and social support affect the interpersonal closeness one is comfortable with, and whether this varies for different emotions of the other person. Individual differences in attachment, parenting experiences during childhood and autonomy-connectedness are hypothesized to influence preferred interpersonal closeness and stress during this task.

Study objective

Objectives:

1) To investigate whether attachment security, autonomy-connectedness, and childhood experiences moderate effects of social support during stress; 2) To investigate the influence of oxytocin on the ability to be close to others (in an interpersonal distance task); 3) To investigate the influence of oxytocin and social support on stress and anxiety levels induced by a social stress test (a virtual Trier Social Stress Test); 4) To investigate the influence of oxytocin and social support on pain perception with a cold pressor test

Study design

Study design: A 2x2 experimental study, in which participants are randomly assigned to 1) an oxytocin or placebo nasal spray, and 2) a social support (bringing a friend) or no support condition. Participants complete a virtual reality interpersonal closeness test, a virtual Trier Social Stress Test, and a Cold Pressor Test. In between, measures of stress, cortisol, heart rate, blood pressure and skin conductance are completed.

Intervention: Half of participants receive 6 puffs of an oxytocin nasal spray. The other half receives an equivalent number of puffs of a placebo nasal spray.

Intervention

24 IU oxytocin or placebo nasal spray

Study burden and risks

Participants will spend approximately 30 minutes on filling out online questionnaires before the lab session, and a maximum of 2 hours during the lab session. Participants will be drawn from a psychology student sample, and will be rewarded by participant credits. There are no risks in participating in this experiment. Some emotional distress might occur during the stress tasks, but we expect that the debriefing procedure will eliminate this stress after the tasks have been performed.

Contacts

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Warandelaan 2 Tilburg 5037 AB NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

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

Inclusion criteria

- Female - Age 18-30

Exclusion criteria

Use of medication (except oral contraceptives), drug or alcohol abuse, psychiatric disorder, neurological or cardiovascular disease, nasal disease or obstruction, pregnancy, and breast

Study design

Design

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

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	28-09-2017
Enrollment:	180
Туре:	Actual

Medical products/devices used

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

Ethics review

Approved WMO Date:	07-03-2017
Date.	07 05 2017
Application type:	First submission
Review commission:	METC Brabant (Tilburg)
Approved WMO Date:	01-05-2017

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Application type: Review commission:

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

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

ID: 25216 Source: Nationaal Trial Register Title:

In other registers

Register	ID
EudraCT	EUCTR2017-000298-35-NL
ССМО	NL60593.028.17
OMON	NL-OMON25216