Functional brain communication and its relation to aggressive behaviour in healthy men and women.

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The primary objective of the proposed study is to gain insight in the underlying neural mechanisms by which frontal cortical activation patterns are established, and its implications for human aggressive behaviour. The proposed approach aims to...

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Personality disorders and disturbances in behaviour
Study type	Observational invasive

Summary

ID

NL-OMON32967

Source
ToetsingOnline

Brief title
Functional brain communication and aggressive behaviour

Condition

- Personality disorders and disturbances in behaviour

Synonym
social aggression; antisocial behaviour

Research involving
Human

Sponsors and support

Primary sponsor: Universiteit Utrecht
Source(s) of monetary or material Support: NWO-VIDI toegekend aan dr. D.J.L.G. Schutter

Intervention

Keyword: Aggression, Brain communication, Transcranial magnetic stimulation

Outcome measures

Primary outcome

Main study parameters in the proposed study are the inter-individual

differences in relations between interhemispheric functional connectivity and

personality traits.

Secondary outcome

Not applicable

Study description

Background summary

Social aggression poses a major threat for individuals and society. The investigation of the psychobiological underpinnings of this destructive phenomenon is thus of critical importance. Recent theories suggest that aberrant forms of cortical brain communication are associated with social aggression. The present research proposal aims to test whether patterns of brain communication are related to aggression and aggressive behaviour.

Study objective

The primary objective of the proposed study is to gain insight in the underlying neural mechanisms by which frontal cortical activation patterns are established, and its implications for human aggressive behaviour. The proposed approach aims to relate these properties to personality traits.

Study design

This observational study employs a correlational between subjects design.

Study burden and risks

No benefit for the participant is to be expected. The experimental session will

consist of the administration of two questionnaires, a Transcranial Magnetic Stimulation session and a behavioural task The parameters used in the Transcranial Magnetic Stimulation session are well within internationally accepted stimulation parameters, and bear a negligible health risk.

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 health
Right-handedness
Non-smoking
Aged between 18-40 years
Normal or corrected-to-normal vision

Signed informed consent

Exclusion criteria

Metal in cranium
Consumption of more than 25 alcoholic beverages per week
Use of psychotropic drugs
Epilepsy or family history of epilepsy (1st degree relatives)
Closed-head injury (present or past)
Current neurological, endocrinological or psychiatric disorders and/or treatment
History of neurological, endocrinological and/or psychiatric disorders and/or treatment
Medication: Benzodiazepines, antidepressants & neuroleptica
Cardiac pacemaker
Implanted medication pump
Habitual smoking
Pregnancy

Study design

Design

Study type: Observational invasive

Masking:	Open (masking not used)
Control:	Uncontrolled

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	15-01-2010
Enrollment:	30
Type:	Actual

Medical products/devices used

Registration:	No

Ethics review

Approved WMO Date:	06-11-2009
Application type:	First submission
Review commission:	METC Universitair Medisch Centrum Utrecht (Utrecht)

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	NL29318.041.09