

Cerebral activation in conversion tremor

Published: 22-02-2012

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2. OBJECTIVES Primary Objective: 1. Does conversion tremor show similar abnormal cerebral activation patterns compared to conversion pareses? Secondary Objective: 1. Is decreased precuneus activity also present in conversion tremor?

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Movement disorders (incl parkinsonism)
Study type	Observational non invasive

Summary

ID

NL-OMON37692

Source

ToetsingOnline

Brief title

fmri in conversion tremor

Condition

- Movement disorders (incl parkinsonism)
- Somatic symptom and related disorders

Synonym

functional tremor; psychogenic tremor

Research involving

Human

Sponsors and support

Primary sponsor: Universitair Medisch Centrum Groningen

Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: conversion tremor, fmri, precuneus

Outcome measures

Primary outcome

fMRI data: differences in cerebral activation recorded by 3T fMRI

Secondary outcome

NA

Study description

Background summary

Conversion tremor is a form of conversion disorder as defined by DSM-IV-TR criteria. Symptoms suggest a medical condition and are associated with psychological factors. The symptom is not intentionally produced. It is well documented that psychogenic symptoms are accompanied by a high incidence of psychological symptoms and insufficient use of active coping strategies (M. Beilen van, Griffioen, & Leenders, 2009).

Previous research suggests that decreased activity in the precuneus and supramarginal gyrus are typical for conversion disorder (M. Beilen van, De Jong, Laar, Gieteling, & Leenders, 2011). We hypothesized that the precuneus abnormality reflects a general deficit in all types of conversion disorder . This is the first time that two types of conversion symptoms are compared using fMRI.

Study objective

2. OBJECTIVES

Primary Objective:

1. Does conversion tremor show similar abnormal cerebral activation patterns compared to conversion pareses?

Secondary Objective:

1. Is decreased precuneus activity also present in conversion tremor?

Study design

Between-subject comparison

Study burden and risks

NA

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

1. conversion tremor in one hand/ or one arm including the hand, with normal opposite limb functioning, or, conversion paresis in one hand/ or one arm including the hand, with normal opposite limb functioning.
2. symptoms present for at least 4 weeks before approaching the patient about the study
3. between 18 to 75 years old

Exclusion criteria

1. Severe psychiatric disturbance such as psychosis, or incapability of making personal decisions about participation in the study for other reasons, as defined by a psychiatrist.
2. Epilepsy in the medical history
3. Pregnancy
4. Tattoo*s including red colour
5. Pace-maker, medication pumps
6. Other metal inside the body
7. Claustrofobia
8. Poor general health

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non-randomized controlled trial
Masking:	Open (masking not used)
Control:	Active
Primary purpose:	Basic science

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	22-02-2012
Enrollment:	45
Type:	Actual

Ethics review

Approved WMO	
Date:	22-02-2012
Application type:	First submission
Review commission:	METC Universitair Medisch Centrum Groningen (Groningen)

Approved WMO

Date: 14-06-2012

Application type: Amendment

Review commission: METC Universitair Medisch Centrum Groningen (Groningen)

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	NL38457.042.11