

Investigating the neural basis of inhibition, set-shifting and monitoring in obsessive-compulsive disorder (OCD), attention-deficit hyperactivity disorder (ADHD) and healthy volunteers

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| Submission date 30/07/2010 | Recruitment status No longer recruiting | <input type="checkbox"/> Prospectively registered |
| Registration date 30/07/2010 | Overall study status Completed | <input type="checkbox"/> Protocol |
| Last Edited 04/10/2017 | Condition category Mental and Behavioural Disorders | <input type="checkbox"/> Statistical analysis plan |
| | | <input type="checkbox"/> Results |
| | | <input type="checkbox"/> Individual participant data |
| | | <input type="checkbox"/> Record updated in last year |

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

6443

Study information

Scientific Title

Investigating the neural basis of inhibition, set-shifting and monitoring in obsessive-compulsive disorder (OCD), attention-deficit hyperactivity disorder (ADHD) and healthy volunteers

Study objectives

The purpose of these experiments is to investigate the relationship between dysfunction in different but related executive processes including set-shifting, inhibition and monitoring in obsessive-compulsive disorder (OCD) and attention-deficit hyperactivity disorder (ADHD). Moreover, the study aims to clarify the precise neural substrates of the above executive functions currently conceived of as separate yet related.

To this end, a battery comprising of distinct yet converging tasks examining the three components of executive functions has been designed, specifically targeting set-shifting, response inhibition and performance monitoring. The design will contrast behavioral, blood-oxygen-level-dependent (BOLD) activation and brain structure between the ADHD group and its age and education matched control group and between the OCD group and its age and education matched control group. Each task will be analysed separately. The four groups will also enter into combined analyses to contrast the two patient groups directly.

More details can be found here: <http://public.ukcrn.org.uk/Search/StudyDetail.aspx?StudyID=6443>

Ethics approval required

Old ethics approval format

Ethics approval(s)

MREC approved ref: 08/H308/65

Study design

Multicentre non-randomised interventional diagnosis and process of care trial

Primary study design

Interventional

Secondary study design

Non randomised study

Study setting(s)

Hospital

Study type(s)

Diagnostic

Participant information sheet

Health condition(s) or problem(s) studied

Topic: Mental Health Research Network; Subtopic: Attention deficit hyperactivity conduct disorder; Disease: Attention deficit hyperactivity disorder; conduct disorders

Interventions

1. Face to face interview: once, approximately 10 minutes duration
2. Imaging (not radiation): twice, 1 hour each time; each participant will undergo functional magnetic resonance imaging (fMRI)
3. Telephone interview: once, approximately 20 minutes duration

Intervention Type

Mixed

Primary outcome measure

Blood oxygenation level dependent (BOLD) response due to neural activity.

Secondary outcome measures

Reaction times and button choices to the stimuli being presented while in the scanner and questionnaire responses.

Overall study start date

01/04/2008

Completion date

01/04/2012

Eligibility

Key inclusion criteria

Not provided at time of registration

Participant type(s)

Patient

Age group

Not Specified

Sex

Not Specified

Target number of participants

Planned sample size: 120

Key exclusion criteria

Not provided at time of registration

Date of first enrolment

01/04/2008

Date of final enrolment

01/04/2012

Locations

Countries of recruitment

England

United Kingdom

Study participating centre

University of Cambridge

Cambridge

United Kingdom

CB2 3EB

Sponsor information

Organisation

Cambridgeshire and Peterborough NHS Foundation Trust (UK)

Sponsor details

Cambridge Road

Fulbourn

Cambridge

England

United Kingdom

CB21 5EF

Sponsor type

Hospital/treatment centre

Website

<http://www.cpft.nhs.uk/>

ROR

<https://ror.org/040ch0e11>

Funder(s)

Funder type

Charity

Funder Name

Wellcome Trust

Alternative Name(s)**Funding Body Type**

Private sector organisation

Funding Body Subtype

International organizations

Location

United Kingdom

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date**Individual participant data (IPD) sharing plan****IPD sharing plan summary**

Not provided at time of registration