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

Submission date
30/07/2010

Recruitment status
No longer recruiting

Registration date
30/07/2010

Overall study status
Completed

Last Edited
04/10/2017

Condition category
Mental and Behavioural Disorders

[ ] Prospectively registered
[ ] Protocol
[ ] Statistical analysis plan
[ ] Results
[ ] Individual participant data
[ ] Record updated in last year

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Protocol serial number
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 s 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

Primary study design
Interventional

Study design
Multicentre non-randomised interventional diagnosis and process of care trial

Study type(s)
Diagnostic

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

Key secondary outcome(s)
Reaction times and button choices to the stimuli being presented while in the scanner and questionnaire responses.

Completion date
01/04/2012

Eligibility

Key inclusion criteria
Not provided at time of registration

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Not Specified

Sex
Not Specified

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
United Kingdom

England

Study participating centre
University of Cambridge
Cambridge

United Kingdom
CB2 3EB

Sponsor information

Organisation
Cambridgeshire and Peterborough NHS Foundation Trust (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

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration