

A pilot study of cognitive behavioural therapy for persistent post-concussional symptoms

Submission date	Recruitment status	<input type="checkbox"/> Prospectively registered
10/03/2006	No longer recruiting	<input type="checkbox"/> Protocol
Registration date	Overall study status	<input type="checkbox"/> Statistical analysis plan
08/05/2006	Completed	<input checked="" type="checkbox"/> Results
Last Edited	Condition category	<input type="checkbox"/> Individual participant data
09/08/2016	Mental and Behavioural Disorders	

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

Protocol serial number

N/A

Study information

Scientific Title

A pilot study of cognitive behavioural therapy for persistent post-concussional symptoms

Study objectives

To determine the effectiveness of cognitive behavioural therapy (CBT) for individuals with persistent post-concussional symptoms after at least mild traumatic brain injury, in terms of post-concussional symptoms and quality of life.

Additional goals for the study include development of a treatment practice manual suitable for dissemination, and analysis of data to identify patient characteristics that may be related to differential treatment response.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Institute of Psychiatry/South London and Maudsley Ethics Committee, ref: 311/02

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Postconcussional syndrome

Interventions

Participants will be randomly assigned to either:

1. Immediate Treatment:

Standard CBT. This will comprise of up to a dozen one-hour sessions of therapist contact, planned to be provided over a 3 - 4 month period. Treatment will also include provision of handouts explaining the features of PCS, identifying some of the factors considered to have a role in its development and maintenance over time, and suggested strategies for tackling symptoms.

2. Waiting List:

For 3 - 4 months. At the end of this period individuals will be offered a course of CBT identical to those provided in the 'immediate treatment' group.

Randomisation will utilise minimisation according to injury severity (based on post-traumatic amnesia), length of time since injury, site at which the individual is seen, and whether a medicolegal claim had or is being pursued.

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

1. Post-concussional symptoms, as assessed using the Rivermead Post Concussion Symptoms Questionnaire (RPQ; King, Crawford, Wenden et al., 1995)
2. Quality of life, assessed using the Brain Injury Community Rehabilitation Outcome Scale (Bicro-39; Powell, Beckers and Greenwood, 1998) and an individualised measure, the Quality of Life Assessment Schedule (QOLAS; Selai, Trimble, Rossor and Harvey, 2000)

Key secondary outcome(s)

1. Symptoms of anxiety and depression (The Hospital Anxiety and Depression Scales [HADS]; Zigmond and Snaith, 1983)
2. Symptoms associated with PTSD (The Impact of Events Scale - Revised [IES-R]; Weiss and Marmar, 1997)
3. Fatigue (Checklist of Individual Strength [CIS20R]; Vercoulen, Swaninck, Fennis, Galama, Van Der Meer and Bleijenberg, 1994)
4. Pain (McGill Pain Questionnaire: Melzack, 1975)
5. Anger (State-Trait Anger Expression Inventory 2 [STAXI 2]; Spielberger, 1999)
6. An additional Quality of Life measure (Visual analogue scale from EQ-5D: Rabin and de Charro, 2001)

Completion date

31/07/2007

Eligibility

Key inclusion criteria

1. Individuals aged between 18 and 65
2. Individuals who meet criteria for post-concussional disorder (ICD-10)
3. Individuals who have had a documented head trauma leading to a probable loss or alteration of consciousness, satisfying criteria for at least a mild brain injury (American Congress of Rehabilitation Medicine [ACRM] criteria)

These symptoms should have persisted for at least 6 months following the injury.

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

1. Individuals with severe cognitive impairment (defined in this study as Mini Mental State Exam scores of less than 20 and/or Frontal Assessment Battery scores of less than 10)
2. Individuals with moderate-severe physical disability (defined in this study as Barthel score less than 15). N.B. The Barthel activities of daily living (ADL) index will not be given as a matter of routine, but only if concerns regarding prominent physical disability are noted in one of the initial assessments.
3. Individuals who have had 4 or more sessions of CBT with a clinical or counselling psychologist, or cognitive-behavioural nurse therapist, subsequent to their head injury
4. Individuals who are not fluent in English
5. Presence of other neurological disorder independent of the head injury (e.g. non-post-traumatic epilepsy)
6. Presence of drug/alcohol misuse meeting International Statistical Classification of Diseases and Related Health Problems - tenth revision (ICD-10) criteria for a dependence syndrome (F1x.2), as specified in ICD-10. However, individuals who may be using drugs or alcohol to a lesser extent, to the point of harmful use (F1x.1) will not be excluded on this criterion.
7. Where the initial assessment indicated factors such as risk of self-harm or psychosis that would necessitate the involvement of a Community Mental Health Team

Date of first enrolment

01/01/2003

Date of final enrolment

31/07/2007

Locations

Countries of recruitment

United Kingdom

England

Study participating centre

Maudsley Hospital

London

United Kingdom

SE5 8AZ

Sponsor information

Organisation

King's College London (UK)

ROR

<https://ror.org/0220mzb33>

Funder(s)

Funder type

Government

Funder Name

South London and Maudsley NHS Foundation Trust (UK) - Blackheath Brain Injury Rehabilitation Centre funding contract

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/10/2016		Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes