# Investigating the effects of cognitive training on attention

Submission date	Recruitment status No longer recruiting	[X] Prospectively registered		
23/10/2014		Protocol		
Registration date	Overall study status	Statistical analysis plan		
23/10/2014	Completed	[X] Results		
<b>Last Edited</b> 13/04/2021	Condition category Circulatory System	[] Individual participant data		

#### Plain English summary of protocol

Background and study aims

Cognitive problems, including in attention and working memory, are common consequences of a stroke. Studies have suggested that progressive computerized training (i.e. training exercises that become more challenging as performance improves) can enhance cognitive function not simply on the exercises that people have practiced, but more generally.

Who can participate?
People aged over 18 who have had a stroke

What does the study involve?

Participants are randomly allocated to one of three groups: home-based online working memory training, a similar training programme focused on attention skills, or a waiting list control group. All participants are first assessed on a range of cognitive tasks and questionnaires about everyday function. These assessments are repeated after the 4 weeks of training and again at a 3-month follow-up. Participants in the training groups are asked to try to complete 20 minutes per working day over the 4 weeks. Participants in the waiting list control group are allocated to one of the active training programmes after the follow-up. In addition to the relative effectiveness of the training programmes, this study examines the feasibility of recruiting participants, the acceptability of the interventions to participants, and other factors that will inform a larger study if the results are positive.

What are the possible benefits and risks of participating? Not provided at time of registration

Where is the study run from? MRC Cognition and Brain Sciences Unit (UK)

When is the study starting and how long is it expected to run for? November 2014 to September 2017

Who is funding the study? Stroke Association (UK)

Who is the main contact?
Dr Polly Peers
polly.peers@mrc-cbu.cam.ac.uk

# Contact information

#### Type(s)

Scientific

#### Contact name

Dr Polly Peers

#### Contact details

MRC Cognition and Brain Sciences Unit 15 Chaucer Road Cambridge United Kingdom CB2 7EF

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# Additional identifiers

#### Protocol serial number

17621

# Study information

#### Scientific Title

Progressive home-based working memory and attention training following stroke, implications for spatial bias: a preliminary study

#### **Study objectives**

In addition to the relative efficacy of the training programmes compared with the waiting list condition, the study will examine the feasibility of recruitment, the acceptability of the interventions to participants and other factors that will inform a definitive trial if the results are positive.

More details can be found at: http://public.ukcrn.org.uk/Search/StudyDetail.aspx?StudyID=17621

# Ethics approval required

Old ethics approval format

# Ethics approval(s)

14/EE/0149

#### Study design

Randomised; Interventional; Design type: Treatment

#### Primary study design

Interventional

#### Study type(s)

Treatment

#### Health condition(s) or problem(s) studied

Topic: Stroke; Subtopic: Rehabilitation; Disease: Therapy type

#### **Interventions**

In this study we aim to recruit people who have had a stroke and randomly allocate them to one of three conditions: home-based online working memory training, a similar training programme focused on attention skills; or a waiting list control group. All participants will be first assessed on a range of cognitive tasks and questionnaires about everyday function. These assessments will be repeated after the 4 weeks of training/waiting list and again at a 3 month follow-up. Participants in the training groups will be asked to try to complete 20 minutes per working day (MonFri) over the 4 weeks. Participants in the waiting list study will be allocated to one of the active training conditions after the followup.

#### Intervention Type

Other

#### Phase

Not Applicable

#### Primary outcome(s)

Spatial Bias measure derived from Theory of Visual Attention paradigm

#### Key secondary outcome(s))

Not provided at time of registration

#### Completion date

01/09/2017

# **Eligibility**

#### Key inclusion criteria

- 1. Over 18 years old
- 2. Able to give informed consent
- 3. Ability to interact with the computer with either hand or via the mouse

#### Participant type(s)

**Patient** 

#### Healthy volunteers allowed

No

#### Age group

Adult

#### Lower age limit

18 years

#### Sex

All

#### Total final enrolment

80

#### Key exclusion criteria

- 1. Medical problems likely to prevent participation
- 2. Language problems likely to prevent comprehension of consent or the training instructions.

#### Date of first enrolment

01/11/2014

#### Date of final enrolment

01/09/2017

# Locations

#### Countries of recruitment

**United Kingdom** 

England

# Study participating centre MRC Cognition and Brain Sciences Unit

Cambridge United Kingdom CB2 7EF

# Sponsor information

#### Organisation

Medical Research Council (MRC) (UK)

#### **ROR**

https://ror.org/03x94j517

# Funder(s)

# Funder type

#### Charity

#### **Funder Name**

Stroke Association

#### Alternative Name(s)

TheStrokeAssociation, TheStrokeAssoc

#### **Funding Body Type**

Private sector organisation

#### **Funding Body Subtype**

Associations and societies (private and public)

#### Location

United Kingdom

# **Results and Publications**

#### Individual participant data (IPD) sharing plan

Open access data will be available through the University of Cambridge sympletic repository. They will become publically available on publication of the paper at the link: https://doi.org/10. 17863/CAM.66310. The data is currently under embargo and will become available once the paper is accepted for publication. The data is fully anonymised and the anonymised data along with copies of the analyses will be available in the repository. At the time of consent patients gave consent for anonymised data to be made freely available to other researchers.

# IPD sharing plan summary

#### **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient- facing?
HRA research summary			28/06 /2023	No	No
Participant information sheet	Participant information sheet	11/11/2025	11/11 /2025	No	Yes
Preprint results	non-peer-reviewed results in preprint	01/07/2013	08/04 /2021	No	No