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Effects of external-focus feedback on motor skill acquisition after stroke

Submission date	Recruitment status	[_] Prospectively registered
21/10/2010	No longer recruiting	[_] Protocol
Registration date	**Overall study status**	[_] Statistical analysis plan
21/10/2010	Completed	[X] Results
Last Edited	**Condition category**	[_] Individual participant data
24/09/2013	Circulatory System	

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers
4425

Study information

Scientific Title

Acronym
Motor skill acquisition

Study objectives
In healthy subjects, feedback inducing an external focus of attention (about movement effects) produces more effective movements compared with feedback that induces an internal focus of attention (about body movements). It is unclear whether this extends to people with stroke.

Objective:
To examine whether feedback inducing an internal or external focus was more effective for retraining the hemiplegic arm.

Ethics approval required
Old ethics approval format

Ethics approval(s)
MREC approved (ref: 05/Q2709/126)

Study design
Multicentre non-randomised interventional phase II treatment trial

Primary study design
Interventional

Secondary study design
Non randomised controlled trial

Study setting(s)
Hospital

Study type(s)
Treatment

Participant information sheet

Health condition(s) or problem(s) studied
Topic: Stroke Research Network; Subtopic: Rehabilitation; Disease: Therapy type

Interventions
Forty-two people with stroke performed three reaching tasks in a counterbalanced, within-subject design.

Intervention Type
Other

Phase
Phase II

Primary outcome measure
Faster movements

Secondary outcome measures
1. Increased percentage time to peak deceleration
2. Increased percentage time to peak velocity

Overall study start date
10/07/2007

Completion date
25/06/2008

Eligibility

Key inclusion criteria
1. Diagnosis of stroke of ischaemic or haemorrhagic origin
2. Score of between 25 and 60 on the Fugl-Meyer Assessment (arm section)
3. Informed written consent

Participant type(s)
Patient

Age group
Not Specified

Sex
Not Specified

Target number of participants
Planned sample size: 42; UK sample size: 42

Key exclusion criteria
1. Upper limb movement deficits attributable to non-stroke pathology
2. Severe somato-sensory disturbance (less than 1 on the Erasmus MC Modified Nottingham Sensory Assessment)
3. More than 18 months post-stroke
4. Moderate to severe receptive aphasia (less than 5 on 'receptive skills' of Sheffield Test for Acquired Language Disorders)

Date of first enrolment
10/07/2007

Date of final enrolment
25/06/2008

Locations

Countries of recruitment
England

United Kingdom

Study participating centre
University of Birmingham
Birmingham
United Kingdom
B15 2TT

Sponsor information

Organisation
University of Birmingham (UK)

Sponsor details
Edgbaston
Birmingham
England
United Kingdom
B15 2TT

Sponsor type
University/education

Website
http://www.bham.ac.uk

ROR
https://ror.org/03angcq70

Funder(s)

Funder type
Charity

Funder Name
The Stroke Association (UK)

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

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/06/2014		Yes	No