Arm Intervention After Stroke (AIAS): a feasibility study

Submission date 07/07/2009	Recruitment status No longer recruiting	 Prospectively registered Protocol
Registration date 03/09/2009	Overall study status Completed	 Statistical analysis plan Results
Last Edited 15/07/2016	Condition category Circulatory System	 Individual participant data Record updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s) Scientific

Contact name Mrs Fiona Coupar

Contact details

Academic Section of Geriatric Medicine Room 35, Level 4 University Block Glasgow Royal Infirmary Glasgow United Kingdom G31 2ER +44 141 211 4000 fmacvicar@yahoo.com

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers GN09GE229 (Ethics no: 09/S0704/32)

Study information

Scientific Title

A randomised, feasibility, safety and efficacy of the ArmeoSpring arm orthosis for acute stroke patients with arm deficits

Acronym

AIAS

Study objectives

Arm rehabilitation provided by the ArmeoSpring is a feasible and acceptable intervention to implement with acute stroke patients with arm deficits.

Principal research question:

Is arm rehabilitaiton provided by the ArmeoSpring arm orthosis a feasible and acceptable intervention for acute stroke patients with arm deficits?

Secondary research questions:

 Is arm rehabilitation provided by the ArmeoSpring arm orthosis, a safe intervention for acute stroke patients with arm deficits, compared with standard therapy?
 What are the effects of two different intenstities of arm rehabilitation provided by the

ArmeoSpring arm orthosis for acute stroke patients with arm deficits, compared with standard therapy?

Ethics approval required

Old ethics approval format

Ethics approval(s) West of Scotland (REC 4) Ethics Committee, 12/06/2009, ref: 09/S0704/32

Study design

Single-blind single-centre randomised feasibility/pilot study

Primary study design Interventional

Secondary study design Randomised controlled trial

Study setting(s) Hospital

Study type(s) Treatment

Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

Health condition(s) or problem(s) studied

Acute stroke

Interventions

The participants will be randomly allocated to one of the three following arms:

1. Standard care: usual therapy, provided by physiotherapists and occupational therapists

2. ArmeoSpring arm orthosis intervention 1: 40 minutes, 3 times a week, in addition to standard care

3. ArmeoSpring arm orthosis intervention 2: 60 minutes, 5 times a week, in addition to standard care

Total duration of interventions: 2 weeks or discharge (whichever is sooner) Total duration of follow-up: 3 months ArmeoSpring intervention will be delievered by a research therapist.

Intervention Type

Other

Phase

Not Applicable

Primary outcome measure

1. Feasibility of experimental interventions:

1.1. Number of per protocol interventions recorded at end of intervention period

1.2. Reasons for non-compliance recorded at end of intervention period

2. Acceptability/satisfaction of experimental intervention: informal interviews with participants completed at the end of the intervention period

Secondary outcome measures

Safety outcomes:

- 1. Arm pain (including shoulder) (measured by 5 point scale none-excruciating)
- 2. Shoulder subluxation (clinical report)
- 3. Fatigue (Borg perceived Exertion Scale)

4. All adverse events

Safety outcomes will be continously monitored and recorded throughout the study, however will be formally recorded at the end of the intervention period (2 weeks or discharge) (by clinical report and patient scales) and at 3 month report (by patient report and scales, on appropriate measures).

Efficacy outcomes:

- 1. Upper limb function: Action Research Arm Test
- 2. Upper limb impairment: Fugl-Meyer assessment (upper limb section)
- 3. Disability: Barthel Index

Exploratory outcome:

To assist in power calculation to determine the number of subjects required for a phase III randomised controlled trial.

Overall study start date

03/08/2009

Completion date

04/04/2010

Eligibility

Key inclusion criteria

- 1. Age greater than 18 years, either sex
- 2. Clinical diagnosis of stroke
- 3. Minimum grade 1 on MRC scale for arm impairment
- 4. Maximum grade 4 on MRC scale for arm impairment
- 5. Medically stable
- 6. Informed consent
- 7. Ability to understand and follow simple instructions
- 8. Sitting balance sufficent to use Armeo arm orthosis safely

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

18

Key exclusion criteria

- 1. Orthosis cannot be fitted to affected limb
- 2. Bone instability of hemiparetic upper limb (fractures, severe arthritis)
- 3. Pre-exisiting upper limb deficits
- 4. Pronounced, fixed contractures of hemiparetic upper limb
- 5. Open skin lesions on hemiparetic upper limb
- 6. Major sensory deficit of hemiparetic upper limb
- 7. Shoulder instability or excessive pain
- 8. Severe spasticity
- 9. Severe spontaneous movements e.g. ataxia, dyskinesia
- 10. Confused or non-cooperative
- 11. Requiring isolation due to infection
- 12. Severe visual, perceptual or cognitive problems precluding participation in study protocol
- 13. Involved in any other intervention study

Date of first enrolment

03/08/2009

Date of final enrolment

04/04/2010

Locations

Countries of recruitment Scotland

United Kingdom

Study participating centre Academic Section of Geriatric Medicine Glasgow United Kingdom G31 2ER

Sponsor information

Organisation NHS Greater Glasgow and Clyde (UK)

Sponsor details Tennant Institute 38 Church Street Western Infirmary Glasgow United Kingdom G11 6NT +44 141 354 9275 darrengibson@ggc.scot.nhs.uk

Sponsor type Government

Website http://www.nhsggc.org.uk

ROR https://ror.org/05kdz4d87

Funder(s)

Funder type Government

Funder Name

Chief Scientist Office of the Scottish Executive Health Department (UK) (ref: CZF/07/12)

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