# Acute whiplash injury study

Submission date	Recruitment status	[X] Prospectively registered		
17/06/2015	No longer recruiting	[X] Protocol		
Registration date	Overall study status	Statistical analysis plan		
18/06/2015	Completed	[X] Results		
Last Edited	Condition category	Individual participant data		
10/07/2023	Musculoskeletal Diseases			

#### Plain English summary of protocol

Background and study aims

Whiplash associated disorder (WAD) is a neck injury usually caused by a road traffic accident. More people are affected by whiplash each year and it can lead to pain and disability. Therefore, it is important for a physiotherapist to prevent the condition becoming chronic (i.e. persisting over a longer period) by using effective management in the acute stage (i.e. just after the injury occurs). The evidence so far suggests that a combination of active and behavioural treatment programme when the patient is still acute may be a useful strategy to manage WAD. We have developed an active behavioural physiotherapy treatment programme using international experts that we plan to use in a large clinical trial to see if it works. The aim of this study, therefore, is to evaluate procedures, feasibility and acceptability of the active behavioural physiotherapy treatment for acute WAD.

#### Who can participate?

Adults between 18-70 who have neck problems that were caused by a road traffic accident within the last four weeks. Their neck problems are classified as whiplash associated disorder (WAD) II.

#### What does the study involve?

There are two phases to this trial. In phase 1 (pilot and feasibility trial), six private physiotherapy clinics in West Midlands, UK are randomly allocated into one of two groups. Participants attending clinics in group 1 (control) are given standard physiotherapy treatments. Participants attending clinics in group 2 (intervention) are given the active behavioural physiotherapy intervention. This phase of the study tests the procedures used and feasibility of the intervention in managing acute WADII in preparation for a larger study. In phase 2, the acceptability of the developed intervention is explored. All physiotherapists in the intervention group are interviewed by a researcher to evaluate the acceptability of the active behavioural physiotherapy intervention for acute WADII management compared with standard physiotherapy. Around six to eight participants in the intervention group are invited to participate in a focus group to evaluate the acceptability of the active behavioural physiotherapy intervention to the patients.

What are the possible benefits and risks of participating?

Participants will receive physiotherapy treatment as part of this study. Some participants will receive current standard care and others will receive an active behavioural physiotherapy

treatment. We are interested in whether one treatment is better than the other to improve management of patients with WAD and to prevent chronic problems. If we can prevent chronic problems, patients can return to their quality of life, direct and indirect medical costs will be reduced. No serious adverse event has been reported in physiotherapy management for WADs.

Where is the study run from? Six private physiotherapy clinics, West Midlands (UK)

When is the study starting and how long is it expected to run for? October 2013 to December 2015

Who is funding the study? The Royal Thai Government.

Who is the main contact? Mr Taweewat Wiangkham txw214@bham.ac.uk

# Contact information

### Type(s)

**Public** 

#### Contact name

Mr Taweewat Wiangkham

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#### Contact details

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## Type(s)

Scientific

#### Contact name

Mr Taweewat Wiangkham

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#### Contact details

School of Sport, Exercise and Rehabilitation Sciences University of Birmingham Edgbaston Birmingham United Kingdom B15 2TT

# Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

**Secondary identifying numbers** N/A

# Study information

#### Scientific Title

Acute Whiplash Injury Study (AWIS): a cluster randomised pilot and feasibility trial of an active behavioural physiotherapy intervention for acute Whiplash Associated Disorder (WAD) II management in an insurance private setting

#### Acronym

**AWIS** 

#### **Study objectives**

To evaluate procedures, feasibility and acceptability of the active behavioural physiotherapy intervention in managing acute WADII within the UK insurance/private sector to inform the design of a future definitive (phase III) trial

# Ethics approval required

Old ethics approval format

# Ethics approval(s)

NHS ethical approval and R&D approval is not required as the trial sits outside of the UK national health system. The insurance / private clinics do not require any other regulatory approval. Support for the trial is in place by the insurance / private clinics and the insurance companies. Ethical approval will be obtained from the University of Birmingham's Ethics Committee.

# Study design

A pilot and feasibility clinical trial of a prospective cluster randomised double blind parallel 2 arm design, with an embedded qualitative study to explore the acceptability of the developed intervention

# Primary study design

Interventional

## Secondary study design

Cluster randomised trial

Study setting(s)

#### Other

#### Study type(s)

Treatment

#### Participant information sheet

See study outputs table

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

Whiplash associated disorder (WAD)

#### **Interventions**

1. Standard physiotherapy intervention:

Each participant will attend a physiotherapy session lasting for 30 minutes once a week. Patients with acute whiplash associated disorder II (WADII) will be managed using the recommendation from clinical whiplash guidelines. Physiotherapy interventions such as manual therapy, exercise therapy and physical agents including a home programme of exercises will be considered to manage WADII patients depending on the individual physiotherapist's clinical reasoning for the individual patient. The treating physiotherapists will select appropriate interventions based on examination findings and scientifically clinical reasoning. Physiotherapists in this treatment arm will be recalled regarding the current standard physiotherapy intervention which is comes from clinical guidelines. A day in June will be established for the recalled meeting prior to recruitment of participants.

2. Active behavioural physiotherapy intervention:

The specific detail of this intervention including the underlying principles and the components was developed by whiplash experts across the world in the previous study: "The development of an active behavioural physiotherapy intervention for acute WADII management" using a modified Delphi method. This study has been approved by the University of Birmingham's Ethical Committee (ERN\_ 14-1339) before piloting, recruiting participants and implementing the modified Delphi study.

#### Intervention Type

Mixed

### Primary outcome measure

Neck Disability Index (NDI)

## Secondary outcome measures

- 1. Visual Analogue Scale (VAS) for pain intensity
- 2. Cervical Range of Motion (CROM)
- 3. Pressure Pain Threshold (PPT)
- 4. Impact of Events Scale (IES)
- 5. Fear Avoidance Beliefs Questionnaire (FABQ)
- 6. Quality of Life (EQ5D-5L)

# Overall study start date

01/01/2015

#### Completion date

01/10/2016

# **Eligibility**

#### Key inclusion criteria

Participants:

- 1. aged from 18 to 70 years old
- 2. presenting with WAD grade II from a road traffic accident within the previous four weeks

#### Participant type(s)

Patient

#### Age group

Adult

#### Lower age limit

18 Years

#### Upper age limit

70 Years

#### Sex

Both

#### Target number of participants

60

#### Total final enrolment

28

#### Key exclusion criteria

- 1. Signs and symptoms of upper cervical instability or cervical artery dysfunction
- 2. Suspected serious spinal pathology
- 3. Open wounds
- 4. Active inflammatory arthritis
- 5. Tumours
- 6. Infection of the skin and soft tissue
- 7. Bleeding disorders or using anti-coagulant medication
- 8. Any current or previous treatment from any other third party or presenting with any serious injuries from other areas of the body resulting from the accident
- 9. History of cervical surgery, previously symptomatic degenerative diseases of cervical spine within 6 months before road traffic accident
- 10. Previous history of whiplash or other neck pain
- 11. Alcohol abuse
- 12. Dementia
- 13. Serious mental diseases
- 14. Psychiatric diseases
- 15. Non-native English speaking

#### Date of first enrolment

06/11/2015

# Date of final enrolment

02/07/2016

# Locations

#### Countries of recruitment

England

**United Kingdom** 

# Study participating centre Junction 1 Fitness

High Street West Bromwich West Midlands United Kingdom B70 6JT

## Study participating centre Bannatyne's Health Club

3 Brunswick Arcade Brindley Place Birmingham United Kingdom B1 2JF

# Study participating centre Spirit Health Club (Holiday Inn Birmingham M6 Jct 7)

Chapel Lane Great Barr Birmingham United Kingdom B43 7BG

# Study participating centre Moseley

1 Salisbury Road Moseley Birmingham United Kingdom B13 8JS

# Study participating centre Bannatyne's Health Club

Princess Alice Drive Sutton Coldfield Birmingham United Kingdom B73 6RB

# Study participating centre

Fitness First

Ulleries Road Solihull West Midlands United Kingdom B92 8DS

# Sponsor information

#### Organisation

School of Sport, Exercise and Rehabilitation Sciences, University of Birmingham

#### Sponsor details

Edgbaston Birmingham England United Kingdom B15 2TT

#### Sponsor type

University/education

#### **ROR**

https://ror.org/03angcq70

# Funder(s)

#### Funder type

Government

#### **Funder Name**

Ministry of Science and Technology of Thailand under the Royal Thai Government

# **Results and Publications**

# Publication and dissemination plan

Planning to submit our protocol to a journal for protocol publication in July 2015. The target journal for protocol publication is BMJ Open. We also plan to submit in January 2016.

# Intention to publish date

Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Stored in repository

# **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Protocol article	protocol	13/07/2016		Yes	No
Participant information sheet Results article		08/04/2016 09/05/2019	29/07/2016 10/07/2023	No Yes	Yes No