# Effectiveness of extracorporeal shock wave therapy in patients with proximal plantar fasciitis

Submission date	Recruitment status  No longer recruiting	Prospectively registered		
02/07/2009		☐ Protocol		
Registration date	Overall study status	Statistical analysis plan		
18/09/2009	Completed	[X] Results		
<b>Last Edited</b> 27/08/2014	Condition category  Musculoskeletal Diseases	[] Individual participant data		

## Plain English summary of protocol

Not provided at time of registration

## Contact information

## Type(s)

Scientific

#### Contact name

Ms Hongying Chen

#### Contact details

ST833 The Hong Kong Polytechnic University Hong Kong China

## Additional identifiers

EudraCT/CTIS number

**IRAS** number

 ${\bf Clinical Trials. gov\ number}$ 

Secondary identifying numbers

N/A

# Study information

#### Scientific Title

Changes of proximal plantar fascia microcirculation after extracorporeal shock wave therapy in patients with proximal fasciitis: a double blinded randomised controlled trial

### **Study objectives**

- 1. There will be an increase in microcirculation at the proximal plantar fascia (PPF) in chronic plantar fasciitis patients
- 2. Short term and long term changes no microcirculation can be observed after application of extracorporeal shock wave therapy

### Ethics approval required

Old ethics approval format

## Ethics approval(s)

Ethical Committee of the Hong Kong Polytechnic University, 18/06/2009, ref: HSEARS20090618004

### Study design

Double-blinded randomised controlled trial

## 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 provided in the interventions section below to request a patient information sheet

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

Chronic plantar fasciitis

#### **Interventions**

Patients will be randomised by drawing cards to receive 3 or 6 sessions of radial extracorporeal shock wave therapy (ESWT) treatment (Storz Medical, Duolith SD, Switzerland), or no active treatment (control). The outcome measures will be taken before, immediately after, at 3, 6 and 12 months after intervention.

Contact details for patient information sheet:

Dr Fu Siu Ngor

The Hong Kong Polytechnic University

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#### **Intervention Type**

Other

#### Phase

Not Applicable

#### Primary outcome measure

Microcirculation index, measured before, immediately after, at 3, 6 and 12 months after intervention

### Secondary outcome measures

- 1. Plantar fascia thickness, measured before and 6 and 12 months after intervention
- 2. Ankle range of motion, measured before and 6 and 12 months after intervention
- 3. Foot Function Index, measured before, immediately after, at 3, 6 and 12 months after intervention
- 4. Visual Analogue Scale (VAS), measured before and 6 and 12 months after intervention

### Overall study start date

01/09/2009

## Completion date

01/09/2011

# **Eligibility**

## Key inclusion criteria

- 1. Aged between 18 and 60 years (either sex)
- 2. Suffered from proximal heel pain for more than 3 months

## Participant type(s)

Patient

## Age group

Adult

## Lower age limit

18 Years

## Upper age limit

60 Years

#### Sex

Both

## Target number of participants

68

## Key exclusion criteria

- 1. Surgery in the treatment area
- 2. Peripheral vessel diseases
- 3. Diabetes mellitus
- 4. Peripheral neuropathy
- 5. Foot fracture
- 6. Ankle sensation loss

#### Date of first enrolment

01/09/2009

#### Date of final enrolment

01/09/2011

## Locations

## Countries of recruitment

China

# Study participating centre

**ST833** 

Hong Kong China

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# Sponsor information

## Organisation

The Hong Kong Polytechnic University (China)

## Sponsor details

c/o Dr Amy Fu ST 533 Department of Rehabilitation Sciences Hong Kong China

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## Sponsor type

University/education

#### Website

http://www.polyu.edu.hk/

#### ROR

https://ror.org/0030zas98

# Funder(s)

## Funder type

University/education

#### Funder Name

The Hong Kong Polytechnic University (China) - Department of Rehabilitation Sciences

## **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	01/10/2013		Yes	No