

A randomised clinical trial to compare the AV impulse foot pump with low molecular weight Heparin in the prevention of deep vein thrombosis after total hip replacement

Submission date 23/01/2004	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 23/01/2004	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 22/02/2008	Condition category Circulatory System	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

Mr David Warwick

Contact details

Southampton University Hospitals NHS Trust
Department of Orthopaedic Surgery
Southampton General Hospital
Tremona Road
Southampton
United Kingdom
SO16 6YD
+44 (0)23 8079 6245
davidwarwick@handsurgery.co.uk

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

R/41/1.97/Warw

Study information

Scientific Title

Study objectives

Without prophylaxis, 45% of patients develop a deep vein thrombosis (DVT) after total hip replacement (THR). Prophylaxis is mandatory to reduce this potentially fatal complication. Low molecular weight heparin (LMWH) is well-established as the most effective method available, reducing the rate to 19% but carrying a perceived risk of haemorrhagic complications. The AV Impulse Foot Pump is a promising new device. Early reports (three relatively small randomised studies) report a DVT rate of 7 to 13%, without haemorrhagic complications. LMWH has not been directly compared with the Foot Pump. A large randomised study is required to determine which of these two prophylactic measures is most effective against DVT, with least complications, best patient acceptability and most favourable cost-benefit ratio.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Randomised controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Cardiovascular diseases: Thromboembolic disease

Interventions

1. Foot pump
2. Low molecular weight heparin

Intervention Type

Other

Phase

Not Applicable

Primary outcome measure

The prevalence of deep-vein thrombosis, as determined by venography on the sixth, seventh, or eighth postoperative day.

Secondary outcome measures

1. Transfusion requirements
2. Intraoperative blood loss
3. Postoperative drainage
4. Blood-loss index
5. Appearance of the site of the wound according to a subjective visual-analogue scale
6. Swelling of the thigh.

Overall study start date

01/01/1995

Completion date

31/12/1997

Eligibility**Key inclusion criteria**

300 consecutive primary Total Hip Replacement patients; randomised to have either Foot Pump or LMWH until discharge.

Participant type(s)

Patient

Age group

Adult

Sex

Both

Target number of participants

290

Key exclusion criteria

Not provided at time of registration

Date of first enrolment

01/01/1995

Date of final enrolment

31/12/1997

Locations

Countries of recruitment

England

United Kingdom

Study participating centre

Southampton University Hospitals NHS Trust

Southampton

United Kingdom

SO16 6YD

Sponsor information

Organisation

NHS R&D Regional Programme Register - Department of Health (UK)

Sponsor details

The Department of Health

Richmond House

79 Whitehall

London

United Kingdom

SW1A 2NL

+44 (0)20 7307 2622

dhmail@doh.gsi.org.uk

Sponsor type

Government

Website

<http://www.doh.gov.uk>

Funder(s)

Funder type

Government

Funder Name

NHS Executive South West (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	01/08/1998		Yes	No