

Optimising patient function following elective Total Hip Replacement (THR) surgery

Submission date 21/02/2011	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
Registration date 13/05/2011	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
Last Edited 04/05/2016	Condition category Musculoskeletal Diseases	<input type="checkbox"/> Individual participant data

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
09/WNo01/52

Study information

Scientific Title

The effect of resisted muscle strengthening exercises on patient function following elective Total Hip Replacement (THR) surgery: a prospective, single blind, randomised, controlled trial

Acronym

THR Exercise Study

Study objectives

A home based, largely unsupervised resistance training programme after total hip replacement surgery improves patient function relative to standard physiotherapy

Ethics approval required

Old ethics approval format

Ethics approval(s)

North West Wales Research Ethics committee, 14/01/2010

Study design

Prospective single-blind 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 below to request a patient information sheet

Health condition(s) or problem(s) studied

Rehabilitation after total hip replacement

Interventions

1. Patients will be randomised to either be in the control group (standard rehabilitation regime) or the intervention group
2. All patients in either group will have assessments pre-operatively and post operatively at 6 weeks, 3 months, 6 months and 1 year
3. The control group will receive routine inpatient and outpatient physiotherapy with the appropriate standard information leaflets provided
4. The intervention group will be shown the training exercises in the pre-assessment clinic and given information sheets
5. On post-operative day 2 (allowing for complications), these exercises will again be shown to them by an experienced physiotherapist

6. On discharge home, they will be seen by a qualified physiotherapist and the program will be adapted to their home environment
7. They will then be reviewed on a weekly basis for 6 weeks where the exercises shall be reviewed and resistance increased

Intervention Type

Behavioural

Primary outcome measure

1. Objective measures of physical function (related to activities of daily living):

1.1. Timed up and go test

1.2. Six minute walk test

1.3. Gait speed, stair climbing performance, and sit to stand score

1.4. Maximal voluntary contraction of quadriceps muscle and hip abductors

The outcomes will be measured pre-operatively and post-operatively at 6 weeks, 6 months and 1 year

Secondary outcome measures

1. Subjective measures of physical function (Oxford Hip Score (OHS) and Western Ontario and McMaster University Osteoarthritis Personal Function (WOMAC PF) subscale

2. Short questionnaire to assess health enhancing physical activity (SQUASH)

3. EuroQoL Quality of life index

4. Objective assessment of physical activity (pedometers for 3 days to assess activity pre-operatively and during the intervention) as well as clinical assessment

5. Recovery locus of control questionnaire, theory of planned behaviour questionnaire, modified zung depression index and modified somatic perception questionnaire will be used to assess motivation to exercise, mood, and perceptions in the recruited population

The outcomes will be measured pre-operatively and post-operatively at 6 weeks, 6 months and 1 year

Overall study start date

01/03/2010

Completion date

31/03/2012

Eligibility

Key inclusion criteria

1. Patients undergoing primary total hip arthroplasty via a posterior approach which can either be cemented or uncemented
2. The joint affected should be the only severely arthritic joint, with no evidence of inflammatory arthropathy
3. Patient agreement to inclusion is also necessary

Participant type(s)

Patient

Age group

Adult

Sex

Both

Target number of participants

50

Key exclusion criteria

1. Dementia, or neurological impairment
2. Presence of cancer or muscle wasting illness, severe musculoskeletal impairment, unstable chronic or terminal illness, major depression, and co-morbid disease that contraindicates resistance training

Date of first enrolment

01/03/2010

Date of final enrolment

31/03/2012

Locations**Countries of recruitment**

United Kingdom

Wales

Study participating centre

Bangor University

Bangor

United Kingdom

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Sponsor information**Organisation**

Bangor University (UK)

Sponsor details

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Sponsor type
University/education

ROR
<https://ror.org/006jb1a24>

Funder(s)

Funder type
Research organisation

Funder Name
North Wales Research Committee (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	21/04/2016		Yes	No