

Assessment of bone remodeling by dual energy X-ray absorptiometry after cemented total hip replacement: a prospective randomized study comparing three different designs

Submission date 30/09/2004	Recruitment status No longer recruiting	☐ Prospectively registered
Registration date 30/09/2004	Overall study status Completed	☐ Protocol
Last Edited 14/11/2014	Condition category Surgery	☐ Statistical analysis plan
		☐ Results
		☐ Individual participant data
		☐ Record updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

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Additional identifiers

Protocol serial number

N0209132499

Study information

Scientific Title

Study objectives

1. How is bone remodelled around the cemented femoral head of three different designs of hip: triple tapered collarless (C Stems), double tapered collarless stems (TPS) and collared stems (Stanmore)?
2. To what extent do each type tend to conserve bone stock?

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

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Surgery: Total hip replacement

Interventions

Patients will be randomised to receive one of the three types of hip:

1. Triple tapered collarless (C Stems)
2. Double tapered collarless stems (TPS)
3. Collared stems (Stanmore)

Pre-surgery, blood will be analysed for vitamin D, parathyroidhormone, and bone profile assay will be performed. Dual X-ray absorptiometry (DEXA) will be done preoperatively than at 3-5 days post-op, and at 3, 6, 12 and 24 months post-op.

Intervention Type

Procedure/Surgery

Phase

Not Applicable

Primary outcome(s)

Is there any difference between the bone loss secondary to bone remodelling in each type of hip?

Key secondary outcome(s)

Not provided at time of registration

Completion date

01/06/2005

Eligibility

Key inclusion criteria

60 patients undergoing primary total hip replacement

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Not Specified

Sex

Not Specified

Key exclusion criteria

Not provided at time of registration

Date of first enrolment

01/04/2003

Date of final enrolment

01/06/2005

Locations

Countries of recruitment

United Kingdom

England

Study participating centre

Royal National Orthopaedic Hospital

Stanmore

United Kingdom

HA7 4LP

Sponsor information

Organisation

Department of Health

Funder(s)

Funder type
Government

Funder Name
Royal National Orthopaedic Hospital NHS Trust (UK)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration