

Parathyroid hormone in the recovery from hip fractures: a pilot study

Submission date
31/12/2010

Recruitment status
No longer recruiting

☐ Prospectively registered

☐ Protocol

Registration date
03/03/2011

Overall study status
Completed

☐ Statistical analysis plan

☒ Results

Last Edited
03/02/2014

Condition category
Injury, Occupational Diseases, Poisoning

☐ Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

Contact name
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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers
R&D 2185

Study information

Scientific Title

The administration of intermittent parathyroid hormone affects functional recovery from pertrochanteric fractured neck of femur: a prospective mixed method pilot study with randomisation of treatment allocation and blinded assessment

Acronym

FRACTT

Study objectives

1. It is possible to recruit 50% of the eligible participants to this trial design
2. It will be possible to manage this study design to International Conference on Harmonisation-Good Clinical Practice (ICH-GCP) guidelines
3. The use of a daily injection pen for 6 weeks in the elderly acutely injured population is acceptable and feasible

Planned null hypothesis for full trial:

The administration of daily parathyroid hormone (PTH) will have no difference on functional recovery from pertrochanteric fracture of the femur in elderly patients.

Ethics approval required

Old ethics approval format

Ethics approval(s)

South West 2 Research Ethics Committee approved on the 3rd November 2010 (ref: 10/H0206/34)

Study design

Open label single centre prospective randomised comparative pilot study with a nested qualitative study

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

Hip fractures

Interventions

Intervention: tereparatide (Forsteo®) 20 µg/day injections

Comparator: standard care

Total duration of treatment: 6 weeks

Total duration of follow up: 6 months

Subjects participating in nested qualitative study will be followed for 12 months.

Intervention Type

Drug

Phase

Phase IV

Drug/device/biological/vaccine name(s)

Parathyroid hormone

Primary outcome measure

Participant numbers including recruitment rate, drop out rate, mortality rates, measured at baseline, 6 weeks, 3 months, 6 months (+12 months for qualitative sub group)

Secondary outcome measures

1. Short Physical Performance Battery, measured at 6 weeks, 3 months (+6 months and 12 months for qualitative sub study)
2. 36-item Short Form Health Survey (SF36), measured at 6 weeks, 3 months, 6 months by phone (+ 12 months for qualitative sub study)
3. EQ5D, measured at 6 weeks, 3 months, 6 months by phone (+ 12 months for qualitative sub study)
4. Visual Analog Scale (VAS) pain, measured at 6 weeks, 3 months, 6 months by phone (+ 12 months for qualitative sub study)
5. Compliance rates, measured at 6 weeks

Overall study start date

08/01/2011

Completion date

01/05/2013

Eligibility

Key inclusion criteria

Patients admitted to Frenchay Hospital with diagnosis of a pertrochanteric femoral fracture over the age of 60 years (either sex)

Participant type(s)

Patient

Age group

Senior

Sex

Both

Target number of participants

40

Key exclusion criteria

Patients with any of the following would be excluded from the trial:

1. Fracture not as a result of a low energy injury/fall for example fall from standing height
2. Patients whose fracture is managed conservatively
3. Surgical fixation with total hip replacement (THR), hemiarthoplasty or cannulated screws
4. Previous treatment with PTH or other PTH analogues.
5. Hypersensitivity to the active substance or to any of the excipients.
6. Previous IV bisphosphonate (e.g. Zoledronic acid) in the previous 12 months
7. Strontium therapy for osteoporosis within the previous 12 months
8. Current medications for breast and prostate cancer (e.g. tamoxifen, anastrozole, zoladex, prostop) or other hormone therapies such as testosterone, HRT
9. Decreased capacity to understand the risks of participating in the trial,
10. Metabolic bone disease e.g. Paget's disease & hyperparathyroidism other than primary osteoporosis or glucocorticoid-induced osteoporosis.
11. Pre-existing hypercalcaemia or high or low corrected calcium which requires investigation.
12. Severe renal failure (EGFR <30) or urolithiasis
13. Unexplained raised alkaline phosphatase,
14. Active cancer diagnosis or skeletal malignancies or bone metastases or prior external beam or implant radiation therapy to skeleton within the last five years.
15. Premenopausal
16. Pregnancy or lactation
17. Sustained use of oral steroids
18. Wheelchair, bed bound or transferring only prior to fracture
19. Other fractures that will affect ability to mobilise at 6 weeks
20. Physically incapable to carry out treatment protocol or appropriate social circumstances (e.g. needle phobia, other severe disabilities limiting manipulation of injection pen and without appropriate carer willing and able to assist)
21. Patient consents to study >7 days post surgery
22. Current participation in any other clinical trial of medicinal product

Date of first enrolment

08/01/2011

Date of final enrolment

01/05/2013

Locations**Countries of recruitment**

England

United Kingdom

Study participating centre
Consultant Orthopaedic Trauma Surgeon
Bristol
United Kingdom
BS16 1LE

Sponsor information

Organisation
North Bristol NHS Trust (UK)

Sponsor details
c/o Nicola Coe
Research and Innovation
Floor 3, Learning and Research Building
Southmead Hospital
Westbury-on-Trym
Bristol
England
United Kingdom
BS10 5NB

Sponsor type
Hospital/treatment centre

Website
<http://www.nbt.nhs.uk/>

ROR
<https://ror.org/036x6gt55>

Funder(s)

Funder type
Government

Funder Name
National Institute of Health Research (NIHR) (UK) - Research for Patient Benefit (RfPB)
Programme (ref: PB-PG-0408-16292)

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	29/01/2014		Yes	No
HRA research summary			28/06/2023	No	No