

Cost-effective use of BISphosphonates in metastatic bone disease - a comparison of bone MARKer directed zoledronic acid therapy to a standard schedule

Submission date 20/05/2005	Recruitment status Stopped	<input checked="" type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 13/07/2005	Overall study status Stopped	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 19/03/2020	Condition category Cancer	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

Plain English summary of protocol

<http://cancerhelp.cancerresearchuk.org/trials/a-trial-looking-at-zoledronic-acid-for-breast-cancer-that-has-spread-to-the-bones2>

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

EudraCT/CTIS number

2005-001376-12

IRAS number

ClinicalTrials.gov number

NCT00458796

Secondary identifying numbers

BISMARK 2005

Study information

Scientific Title

Cost-effective use of BISphosphonates in metastatic bone disease - a comparison of bone MARKer directed zoledronic acid therapy to a standard schedule

Acronym

BISMARK

Study objectives

It is the aim of this trial to determine whether a bone marker directed schedule of bisphosphonate therapy is comparable with a fixed 3-4 weekly strategy in preventing skeletal related events and maintaining quality of life.

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)

Not specified

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

Advanced breast cancer

Interventions

Standard schedule of zoledronic acid (4-weekly) versus marker-directed schedule of zoledronic acid (4, 8 or 16-weekly - variable - dependent on urinary Ntx/creatinine ratio measured every 4 months)

Intervention Type

Drug

Phase

Not Applicable

Drug/device/biological/vaccine name(s)

Zoledronic acid

Primary outcome measure

Frequency and timing of all skeletal related events (SREs), defined as fractures, radiotherapy to bone, hypercalcaemia of malignancy, orthopaedic surgery and spinal cord compression.

Secondary outcome measures

1. Quality of life
2. Clinical burden of skeletal complications
3. Pain, performance status and analgesic use (PPA score)
4. The incidence of new bone metastases
5. Overall survival
6. Bisphosphonate use and expenditure on administration

Sub-studies in a sub-set of the study population will compare:

1. Health care utilisation
2. Evaluation of the clinical utility of the 'point of care' test for NTX excretion
3. Changes in serum markers of bone metabolism

Overall study start date

01/09/2005

Completion date

30/09/2013

Reason abandoned (if study stopped)

Participant recruitment issue

Eligibility

Key inclusion criteria

1. Patients with advanced breast cancer with radiographic confirmation of bone metastases
2. Men or women aged ≥ 18 years
3. World Health Organisation (WHO) (Eastern Cooperative Oncology Group [ECOG]) performance status 0-2
4. Women of child-bearing potential must be using a reliable and appropriate method of

contraception

5. Ability to read and complete the European Organisation for Research and Treatment of Cancer (EORTC) and pain quality of life (QoL) questionnaires

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

1400

Key exclusion criteria

1. Bisphosphonate treatment within the 4 weeks prior to planned first study treatment
2. Abnormal renal function as evidenced by a calculated creatinine clearance <30 ml/minute
3. Poor venous access
4. Metabolic bone disease (e.g. Paget's disease of bone)
5. Unable to comply with study procedures, especially the reliable collection of urine samples for bone resorption marker measurements
6. Estimated life expectancy of <6 months
7. Treatment with systemic bone seeking radioisotopes (e.g. strontium, samarium) within the 3 months prior to study entry
8. Wide field (hemi-body) radiotherapy within the 3 months prior to study entry
9. Concomitant medication with drugs known to affect bone metabolism
10. Pregnancy or breast-feeding
11. Current active dental problems including infection of the teeth or jawbone (maxilla or mandibular), or a current or prior diagnosis of osteonecrosis of the jaw (ONJ)
12. Recent (within 4 weeks of study entry) or planned dental or jaw surgery (e.g. extractions, implants)

Date of first enrolment

01/09/2005

Date of final enrolment

30/09/2013

Locations

Countries of recruitment

England

Scotland

United Kingdom

Study participating centre

Weston Park Hospital

Sheffield

United Kingdom

S10 2SJ

Study participating centre

Clinical Trials Research Unit

University of Leeds

Leeds

United Kingdom

LS2 9JT

Study participating centre

St Lukes Cancer Centre at the Royal Surrey

Guildford

United Kingdom

GU2 7XX

Study participating centre

Shrewsbury and Telford Hospital NHS Trust

Shrewsbury

United Kingdom

SY3 8XQ

Study participating centre

Western General Hospital

Edinburgh

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EH4 2XU

Study participating centre

Cancer Research UK Oncology Unit

Southampton General Hospital

Southampton

United Kingdom

SO16 6YD

Sponsor information

Organisation

University of Sheffield (UK)

Sponsor details

Academic Division Research Office
85 Wilkinson Street
Sheffield
England
United Kingdom
S10 2GJ

Sponsor type

University/education

ROR

<https://ror.org/05krs5044>

Funder(s)

Funder type

Other

Funder Name

Clinical Trials Advisory and Awards Committee (CTAAC)

Results and Publications

Publication and dissemination plan

Final publication in preparation

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
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[Plain English results](#)

No

Yes

[Abstract results](#)

results

20/05/2012

No

No