

Pain in Paget's disease

Submission date 10/05/2021	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
Registration date 14/06/2021	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 03/03/2025	Condition category Musculoskeletal Diseases	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

Paget's disease of bone disrupts the normal cycle of bone renewal, causing bones to become weakened and possibly deformed. It's a fairly common condition in the UK, particularly in older people. It's rare in people under 50 years of age.

Bone pain is the most common symptom in patients with Paget's disease of bone (PDB), affecting around 73% of patients that come to clinical attention. However, the reason that pain occurs in some patients and not others is not understood. This study will look at a number of different potential factors, including: DNA and RNA analysis, the presence of markers of bone turnover in the blood, gut and mouth microbiomes, physical activity levels, diet, quality of life measures, and sensory testing.

Who can participate?

Anyone with a diagnosis of Paget's Disease of Bone who is over the age of 18 and is willing and able to comply and consent with the study protocol.

What does the study involve?

The study visit lasts approximately 90 minutes and involves blood samples being taken, questionnaires being answered and quantitative sensory testing being undertaken to compare sensory differences above affected and unaffected bone.

What are the possible benefits and risks of participating?

There are no direct benefits to participants themselves. There is a small risk of bruising during venepuncture.

Where is the study run from?

Institute of Genetics and Cancer, University of Edinburgh (UK)

When is the study starting and how long is it expected to run for?

January 2018 to December 2022

Who is funding the study?

The Paget's Association (UK)

Who is the main contact?
Kathryn Berg, kathryn.berg@ed.ac.uk

Contact information

Type(s)

Public

Contact name

Ms Kathryn Berg

ORCID ID

<https://orcid.org/0000-0002-5972-4009>

Contact details

N3.12 Centre for Genomic and Experimental Medicine
Institute for Genetics and Molecular Medicine, University of Edinburgh
Crewe Road South
Edinburgh
United Kingdom
EH4 2XU
+44 (0)1316518726
kathryn.berg@ed.ac.uk

Additional identifiers

Integrated Research Application System (IRAS)

232314

Central Portfolio Management System (CPMS)

41974

Study information

Scientific Title

Deciphering the mechanisms of pain in Paget's disease of bone

Acronym

PiP

Study objectives

The aim of this study is to document the frequency with which pain occurs and to explore the mechanisms of pain in a cohort study of up to 250 patients with PDB. The rationale for the study is to gain a greater understanding of why pain occurs in PDB and to identify biomarkers that might predict the occurrence or severity of pain.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 05/02/2019, West of Scotland Research Ethics Committee 3 (Clinical Research and Development, West Glasgow Ambulatory Care Hospital, Dalnair Street, Glasgow, G3 8SJ, UK; +44 (0)141 314 0211; WoSREC3@ggc.scot.nhs.uk), ref: 18/WS/0236

Study design

Cross-sectional observational multi-centre study

Primary study design

Observational

Study type(s)

Other

Health condition(s) or problem(s) studied

Paget's disease of bone (PDB)

Interventions

The study involves a single visit lasting approximately 90 minutes which involves blood samples being taken, questionnaires being answered and quantitative sensory testing being undertaken to compare sensory differences above affected and unaffected bone.

Intervention Type

Mixed

Primary outcome(s)

Pain is measured using the BPI questionnaire and a visual analogue scale (VAS) at a single time point

Key secondary outcome(s)

QST will measure sensory detection and pain thresholds above affected and unaffected bone at a single time point

Completion date

31/12/2022

Eligibility

Key inclusion criteria

1. Clinical diagnosis of PDB
2. Age of 18 years or older
3. Willing and able to give informed consent

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Total final enrolment

168

Key exclusion criteria

1. Unable to comply with study procedures.

Date of first enrolment

09/06/2019

Date of final enrolment

01/09/2022

Locations**Countries of recruitment**

United Kingdom

England

Scotland

Wales

Study participating centre**Western General Hospital**

Crewe Road South

Edinburgh

United Kingdom

EH4 2XU

Study participating centre**Queen Elizabeth University Hospital**

1345 Govan Road

Glasgow

United Kingdom

G51 4TF

Study participating centre
Newcastle Freeman Hospital
Freeman Rd
High Heaton
Newcastle upon Tyne
United Kingdom
NE7 7DN

Study participating centre
The James Cook University Hospital
Marton Road
Middlesbrough
United Kingdom
TS4 3BW

Study participating centre
Royal Liverpool University Hospital
Prescot Street
Liverpool
United Kingdom
L7 8XP

Study participating centre
Salford Royal
Stott Lane
Salford
United Kingdom
M6 8HD

Study participating centre
Cardiff Royal Infirmary
Glossop Road
Cardiff
United Kingdom
CF24 0JT

Study participating centre
Manchester Royal Infirmary
Oxford Rd,
Manchester

United Kingdom
M13 9WL

Study participating centre
Norfolk & Norwich University Hospital
Colney Lane, Norwich, Norfolk
Norwich
United Kingdom
NR4 7UY

Study participating centre
Royal National Orthopaedic Hospital
Brockley Hill, Stanmore
London
United Kingdom
HA6 4LP

Study participating centre
Northern General Hospital
Herries Road
Sheffield
United Kingdom
S5 7AU

Study participating centre
Leicester Royal Infirmary
Infirmary Square
Leicester
United Kingdom
LE1 5WW

Study participating centre
Nottingham City Hospital
Hucknall Road
Nottingham
United Kingdom
NG5 1PB

Sponsor information

Organisation

Accord (United Kingdom)

ROR

<https://ror.org/01x6s1m65>

Funder(s)

Funder type

Charity

Funder Name

Paget's Association

Results and Publications

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are available from the corresponding author on reasonable request (Kathryn Berg, kathryn.berg@ed.ac.uk)

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		30/09/2024	03/03/2025	Yes	No
HRA research summary			28/06/2023	No	No
Participant information sheet	version v4.0	05/04/2019	14/06/2021	No	Yes
Protocol file	version v5.0	09/07/2019	14/06/2021	No	No