# A comparison of pelvic extended nodal irradiation and stereotactic body radiotherapy for patients with recurrent prostate cancer

Submission date	<b>Recruitment status</b> Recruiting	[X] Prospectively registered		
11/06/2024		[X] Protocol		
Registration date	Overall study status	Statistical analysis plan		
23/09/2024	Ongoing  Condition category	Results		
Last Edited		Individual participant data		
17/01/2025	Cancer	[X] Record updated in last year		

### Plain English summary of protocol

Background and study aims

Prostate cancer can come back after previous treatment with surgery or radiotherapy in glands (known as lymph nodes) in the pelvis, which is what happened to you. When this happens, there are different treatments that could be used for your cancer, but we do not know for certain which treatment is best. The POINTER-PC study is trying to work this out.

### Who can participate?

All participants approached about this study have prostate cancer which has come back in lymph glands in their pelvis.

### What does the study involve?

Two different types of radiotherapy could be used. The gland(s) could be treated with focused radiotherapy given in a small number of treatments (5 treatments), which is called stereotactic body radiotherapy (SBRT). Or, both the surrounding pelvis as well as the gland(s) known to be cancerous could be treated with radiotherapy. This is known as pelvis radiotherapy.

### What are the possible benefits and risks of participating?

This study will compare pelvis radiotherapy with SBRT to see which is better at stopping the cancer from coming back again. Pelvis radiotherapy is usually given in 20 treatments, but it could be shortened to give it in 5 treatments instead. In the study, we will also check if pelvis radiotherapy can be safely given in 5 treatments instead of 20 treatments. Pelvis radiotherapy might be better than SBRT at stopping the cancer coming back again in the pelvis or in another part of the body. SBRT and pelvis radiotherapy in either 5 or 20 treatments can have side effects. Hormone therapies and chemotherapy also carry a risk of side effects.

### Where is the study run from?

The Clinical Trials Research Unit at the University of Leeds (UK)

When is the study starting and how long is it expected to run for? October 2023 to November 2031 Who is funding the study? Yorkshire Cancer Research (UK)

Who is the main contact?
The POINTER-PC trial team at POINTERPC@leeds.ac.uk

### **Contact information**

### Type(s)

Principal investigator

#### Contact name

Dr Ann Henry

### Contact details

Department of Clinical Oncology, St James's University, Beckett St Leeds United Kingdom LS9 7TF

A.Henry@leeds.ac.uk

### Type(s)

Public, Scientific

#### Contact name

Dr Samantha Noutch

### Contact details

Leeds Institute of Clinical Trials Research (LICTR), Level 10, Worsley Building, Clarendon Way, University of Leeds Leeds United Kingdom LS2 9NL

pointerpc@leeds.ac.uk

### Additional identifiers

### Clinical Trials Information System (CTIS)

Nil known

### Integrated Research Application System (IRAS)

327827

### ClinicalTrials.gov (NCT)

Nil known

### Protocol serial number

CPMS 62335, CRCPSC-Jul23/100003

### Study information

#### Scientific Title

Pelvis Or Involved Node Treatment: Eradicating Recurrence in Prostate Cancer (POINTER-PC)

### Acronym

POINTER-PC

### **Study objectives**

Objectives:

- 1. To compare ENI (ENI-20 and ENI-5) with SBRT for the endpoint of Metastatic free survival.
- 2. To compare ENI-5 with ENI-20 for the endpoint of patient reported outcome measure (PROM)-assessed late bowel toxicity at 3 years.

### Ethics approval required

Ethics approval required

### Ethics approval(s)

approved 22/05/2024, East of England – Cambridgeshire and Hertfordshire Research Ethics Committee (2 Redman Place, Stratford, London, E20 1JQ, United Kingdom; +44 20 7104 8096; cambsandherts.rec@hra.nhs.uk), ref: 24/EE/0099

### Study design

Interventional; Design type: Treatment, Radiotherapy

### Primary study design

Interventional

### Study type(s)

Treatment

### Health condition(s) or problem(s) studied

Prostate cancer

#### Interventions

All participants will receive 12 months of hormone therapy, Androgen Deprivation Therapy (ADT), starting either on the first day of radiotherapy or up to one month before radiotherapy starts.

A computer-generated minimisation program that incorporates a random element will be used to ensure the treatment groups are well-balanced for the following factors:

Number of pelvic nodal recurrences

The type of PET-CT at diagnosis of recurrence

Whether the participant is planned for systemic anticancer therapy in addition to ADT (docetaxel /second-generation androgen receptor antagonist or androgen biosynthesis inhibitor) versus none

Randomisation will be performed centrally using the CTRU automated 24-hour randomisation system. Following confirmation of written informed consent and eligibility, participants will be

randomised to receive either stereotactic body radiotherapy, pelvis radiotherapy in 5 fractions, or pelvis radiotherapy in 20 fractions on a 2:1:1 basis, respectively.

#### Prior to treatment:

Participants will be assessed for their toxicity levels before treatment begins. They will also be required to complete two questionnaires to assess their status and quality of life. Samples for translational research purposes, including blood and tissue samples, will be collected at this time. Consent for blood samples is optional and will be confirmed with the CTRU. Blood samples will be taken at three time points: prior to treatment, upon completion of treatment, and 3 months after radiotherapy. Consent for providing tissue blocks is mandatory, and participants must agree to the collection and sending of tissue blocks to external labs to participate in the study. One FFPE original biopsy or prostatectomy specimen tissue block will be collected at baseline.

#### On treatment:

Depending on randomisation, participants will receive either stereotactic body radiotherapy or pelvis radiotherapy in 5 or 20 fractions.

Stereotactic body radiotherapy: 30-40 Gy in 5 fractions delivered on alternate days over 2 weeks, targeting the involved nodes.

Pelvis radiotherapy in 5 fractions: 25 Gy in 5 fractions plus a simultaneous integrated boost of 30-40 Gy, delivered on alternate days over 2 weeks, targeting the pelvic nodal area.

Pelvis radiotherapy in 20 fractions: 44 Gy in 20 fractions plus a simultaneous integrated boost of 54 Gy to macroscopically involved node(s), delivered daily over 4 weeks, targeting the pelvic nodal area.

Treatments will be delivered using intensity-modulated RT (IMRT) with daily online image guidance. Additional systemic anticancer therapies (docetaxel/second-generation androgen receptor antagonist or androgen biosynthesis inhibitor) will be allowed post-radiotherapy. The radiotherapy will be delivered Monday to Friday for either 2 or 4 weeks, depending on the treatment.

#### End of treatment:

Participants will be assessed for toxicity at the end of treatment, and a clinical assessment will be performed. Optional translational blood samples will also be taken at this time.

#### Follow-up assessments:

Follow-up visits will take place 2 weeks, 6 weeks, 3, 6, 12, 18, 24, 30, and 36 months after the conclusion of radiotherapy. These visits may be conducted in person or over the phone. For phone visits, the participant's GP will need to perform a PSA blood test and, if consented to, collect a blood sample before the appointment. Reminders for completing the quality-of-life questionnaires will be sent 2 weeks and 4 weeks after the initial link is sent, if the questionnaire has not been completed. Data collection will include:

A clinical assessment at every follow-up visit

Toxicity assessments at 2 weeks, 6 weeks, 3, 6, 12, 18, 24, 30, and 36 months

Health-related quality of life questionnaires at 2 weeks, 3, 6, 12, 24, and 36 months (reminders will be sent as needed)

Optional translational blood samples at 3 months

PSA blood tests at 6 weeks, 3, 6, 12, 18, 24, 30, and 36 months (standard care)

Data analysis:

The statistical analysis will be conducted by CTRU statisticians. A detailed statistical analysis plan will be written before any analysis is undertaken, following CTRU standard operating

procedures. The primary endpoint analysis will take place once the final participant reaches their primary endpoint (3 years post-treatment) and once all data have been collected and cleaned.

There will be no formal interim analyses, but an independent data monitoring and ethics committee will review interim safety and accrual data to monitor trial progress. Procedures are in place to detect and address potential "researcher effects" and "researcher bias."

### Intervention Type

Biological/Vaccine

### **Phase**

Phase III

### Drug/device/biological/vaccine name(s)

Androgen Deprivation Therapy

### Primary outcome(s)

Current primary outcome measure as of 06/11/2024:

- 1. Metastatic free survival (defined as time from randomisation to progression of the treated node(s), new nodal, bone or visceral metastatic disease, or death due to Prostate Cancer (PCa)) measured using patient records
- 2. PROM-assessed late bowel toxicity at 3 years, measured using the Expanded Prostate Cancer Index Composite 26-item questionnaire (EPIC-26) bowel function sub-domain.

### Previous primary outcome measure:

Metastatic free survival (defined as the time from randomisation to progression of the treated node(s), new nodal, bone or visceral metastatic disease, or death due to Prostate Cancer (PCa)) measured using patient records

### Key secondary outcome(s))

Current secondary outcome measure as of 06/11/2024:

- 1. Overall survival (defined as the time from randomisation to death from any cause)
- 2. Biochemical progression-free survival (bPFS, defined as ≥2 ng/ml increase in PSA above the nadir value achieved after completion of RT)
- 3. Failure-free survival (defined as the time from randomisation to biochemical failure, the commencement of further anticancer therapy for PCa, further nodal, bone or visceral metastases or death from PCa)
- 4. Patterns of failure: Local, treated-node(s), other regional/ pelvic lymph node(s), para-aortic lymph node(s), other extra-pelvic lymph node(s), bone metastasis, visceral metastasis (liver, lung), other metastasis
- 5. Urinary and bowel toxicities, measured using the relevant EPIC-26 function and other subdomains at baseline and 2 weeks, 3 months, 12 months, 24 months and 36 months post-RT 6. Health-Related Quality of Life (HRQoL), measured using EORTC QLQ-C30 at baseline and 2 weeks, 3 months, 12 months, 24 months and 36 months post-RT
- 7. Clinician-reported toxicity at baseline, 2 weeks, 6 weeks, 3 months, 6 months, 12 months, 18 months, 24 months, 30 months and 36 months post-RT and maximum acute ( $\leq$ 3 months) and late ( $\geq$ 3 months) bowel and urinary toxicity, measured using CTCAE v5.0

### Previous secondary outcome measure:

PROM-assessed late bowel toxicity at 3 years, measured using the Expanded Prostate Cancer Index Composite 26-item questionnaire (EPIC-26) bowel function sub-domain.

### Completion date

30/11/2031

### **Eligibility**

### Key inclusion criteria

Current participant inclusion criteria as of 06/11/2024:

- 1. Age >=18 years, male
- 2. Histological diagnosis of prostate adenocarcinoma
- 3. Previous primary prostate cancer (PCa) treatment (radical prostatectomy [RP], primary/ post-operative radiotherapy [RT] or brachytherapy without previous pelvic nodal RT)
- 4. Maximum of three PET-CT (PSMA or Choline PET-CT) defined macroscopically-involved pelvic lymph nodes (upper limit of the pelvis is defined as the aortic bifurcation) within 6 months prior to randomisation
- 5. World Health Organisation (WHO) performance status 0-2
- 6. Willing to be randomised to stereotactic body radiotherapy (SBRT), ENI-5 or ENI-20
- 7. Patients must be able to provide study-specific written informed consent
- 8. Prepared to participate in follow-up by telephone or in-person

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### Participant type(s)

Patient

### Healthy volunteers allowed

No

### Age group

Adult

### Lower age limit

18 years

#### Sex

Male

### Key exclusion criteria

- 1. Previous pelvic nodal radiotherapy
- 2. Contraindications to SBRT or ENI (e.g. inflammatory bowel disease)
- Contraindications to ADT

- 4. Local recurrence in the prostate gland
- 5. Para-aortic nodal metastases (above the aortic bifurcation)
- 6. Meso-rectal nodal metastases
- 7. Bone or visceral metastases
- 8. Severe late toxicity relating to primary/post-operative RT
- 9. Other active malignancy (except non-melanoma skin cancer or other malignancy with a documented disease-free survival for a minimum of 3 years before randomisation)
- 10. Castrate-resistant disease

### Date of first enrolment

01/12/2024

### Date of final enrolment

30/11/2028

### Locations

### Countries of recruitment

United Kingdom

England

Northern Ireland

Scotland

### Study participating centre The Christie NHS Foundation Trust

550 Wilmslow Road Withington Manchester United Kingdom M20 4BX

### Study participating centre

### Cambridge University Hospitals NHS Foundation Trust

Cambridge Biomedical Campus Hills Road Cambridge United Kingdom CB2 0QQ

### Study participating centre Belfast Health and Social Care Trust

Trust Headquarters

A Floor - Belfast City Hospital Lisburn Road Belfast United Kingdom BT9 7AB

### Study participating centre University Hospitals Birmingham NHS Foundation Trust

Queen Elizabeth Hospital Mindelsohn Way Edgbaston Birmingham United Kingdom B15 2GW

### Study participating centre University Hospitals Bristol and Weston NHS Foundation Trust

Trust Headquarters Marlborough Street Bristol United Kingdom BS1 3NU

### Study participating centre

The Clatterbridge Cancer Centre NHS Foundation Trust

Clatterbridge Hospital Clatterbridge Road Bebington Wirral United Kingdom CH63 4JY

### Study participating centre

**NHS Lothian** 

Waverley Gate 2-4 Waterloo Place Edinburgh United Kingdom EH1 3EG

### Study participating centre

### Guys and St Thomas' NHS Foundation Trust

249 Westminster Bridge Road London United Kingdom SE1 7EH

### Study participating centre Hull University Teaching Hospitals NHS Trust

Hull Royal Infirmary Anlaby Road Hull United Kingdom HU3 2JZ

### Study participating centre South Tees Hospitals NHS Foundation Trust

James Cook University Hospital Marton Road Middlesbrough United Kingdom TS4 3BW

### Study participating centre Leeds Teaching Hospitals NHS Trust

St. James's University Hospital Beckett Street Leeds United Kingdom LS9 7TF

### Study participating centre United Lincolnshire Hospitals NHS Trust

Lincoln County Hospital Greetwell Road Lincoln United Kingdom LN2 5QY

### Study participating centre East and North Hertfordshire NHS Trust

Lister Hospital

Coreys Mill Lane Stevenage United Kingdom SG1 4AB

### Study participating centre Somerset NHS Foundation Trust

Trust Management Lydeard House Musgrove Park Hospital Taunton United Kingdom TA1 5DA

### Study participating centre

The Newcastle upon Tyne Hospitals NHS Foundation Trust

Freeman Hospital Freeman Road High Heaton Newcastle upon Tyne United Kingdom NE7 7DN

### Study participating centre

Norfolk and Norwich University Hospitals NHS Foundation Trust

Colney Lane Colney Norwich United Kingdom NR4 7UY

### Study participating centre North Middlesex University Hospital NHS Trust

North Middlesex Hospital Sterling Way London United Kingdom N18 1QX

### Study participating centre

### Royal Free London NHS Foundation Trust

Royal Free Hospital Pond Street London United Kingdom NW3 2QG

### Study participating centre The Royal Marsden NHS Foundation Trust

Fulham Road London United Kingdom SW3 6JJ

### Study participating centre Royal Surrey County Hospital NHS Foundation Trust

Egerton Road Guildford United Kingdom GU2 7XX

### Study participating centre Torbay and South Devon NHS Foundation Trust

Torbay Hospital Newton Road Torquay United Kingdom TQ2 7AA

### Study participating centre University College London Hospitals NHS Foundation Trust

250 Euston Road London United Kingdom NW1 2PG

### Study participating centre Sheffield Teaching Hospitals NHS Foundation Trust

Northern General Hospital Herries Road Sheffield United Kingdom S5 7AU

### Study participating centre East Suffolk and North Essex NHS Foundation Trust

Colchester Dist General Hospital Turner Road Colchester United Kingdom CO4 5JL

### Study participating centre Greater Glasgow and Clyde

Gartnavel Royal Hospital 1055 Great Western Road Glasgow United Kingdom G12 0XH

### Study participating centre Lancashire Teaching Hospitals NHS Foundation Trust

Royal Preston Hospital Sharoe Green Lane Fulwood Preston United Kingdom PR2 9HT

### Study participating centre Royal Cornwall Hospitals NHS Trust

Royal Cornwall Hospital Treliske Truro United Kingdom TR1 3LJ

## Study participating centre University Hospitals of Derby and Burton NHS Foundation Trust Royal Derby Hospital Uttoxeter Road

Derby

United Kingdom DE22 3NE

### Study participating centre Mid and South Essex NHS Foundation Trust

Prittlewell Chase Westcliff-on-sea United Kingdom SSO 0RY

### Study participating centre Barts Health NHS Trust

The Royal London Hospital 80 Newark Street London United Kingdom E1 2ES

### Study participating centre York and Scarborough Teaching Hospitals NHS Foundation Trust

York Hospital Wigginton Road York United Kingdom YO31 8HE

### Study participating centre Maidstone and Tunbridge Wells NHS Trust

The Maidstone Hospital Hermitage Lane Maidstone United Kingdom ME16 9QQ

### Study participating centre Imperial College Healthcare NHS Trust

The Bays St Marys Hospital South Wharf Road

### Sponsor information

### Organisation

University of Leeds

#### **ROR**

https://ror.org/024mrxd33

### Funder(s)

### Funder type

Charity

#### **Funder Name**

Cancer Research UK

### Alternative Name(s)

CR UK, Cancer Research UK - London, Cancer Research UK (CRUK), CRUK

### **Funding Body Type**

Private sector organisation

### **Funding Body Subtype**

Other non-profit organizations

#### Location

**United Kingdom** 

### **Funder Name**

Yorkshire Cancer Research

### **Results and Publications**

### Individual participant data (IPD) sharing plan

After the final trial results publication, researchers may request access to data from the POINTER-PC Trial Management Group and Leeds Cancer Research UK Clinical Trials Unit.

### **IPD sharing plan summary** Available on request

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<u>Protocol article</u>		26/12/2024	17/01/2025	Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes