

# A trial of prostate radiotherapy in conjunction with carbogen and nicotinamide

<b>Submission date</b>	<b>Recruitment status</b>	<input type="checkbox"/> Prospectively registered
06/02/2012	No longer recruiting	<input type="checkbox"/> Protocol
<b>Registration date</b>	<b>Overall study status</b>	<input type="checkbox"/> Statistical analysis plan
06/02/2012	Completed	<input type="checkbox"/> Results
<b>Last Edited</b>	<b>Condition category</b>	<input type="checkbox"/> Individual participant data
15/09/2022	Cancer	<input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

<http://cancerhelp.cancerresearchuk.org/trials/a-study-looking-radiotherapy-with-carbogen-and-nicotinamide-prostate-cancer-procon>

## Contact information

### Type(s)

Scientific

### Contact name

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## Additional identifiers

### Clinical Trials Information System (CTIS)

2010-021886-63

### Protocol serial number

9930

## Study information

**Scientific Title**

A trial of PROstate radiotherapy in CONjunction with carbogen and nicotinamide (PROCON)

**Acronym**

PROCON

**Study objectives**

To investigate the use of carbogen and nicotinamide during a course radiotherapy for locally advanced prostate cancer to overcome tumour hypoxia.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

ref: 11/SC/0064

**Study design**

Non-randomised interventional trial

**Primary study design**

Interventional

**Study type(s)**

Treatment

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

Prostate cancer

**Interventions**

The use of carbogen and nicotinamide during radiotherapy.

**Intervention Type**

Drug

**Phase**

Phase II

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

Carbogen, nicotinamide

**Primary outcome(s)**

PSA progression-free survival measured at 5 years

**Key secondary outcome(s)**

Short-term and long-term GU and GI toxicity following treatment

**Completion date**

01/09/2013

**Eligibility**

**Key inclusion criteria**

1. Histological diagnosis of prostate adenocarcinoma of Gleason grade 3+3 or higher
2. Radical radiotherapy is considered to be appropriate treatment
3. Any of: PSA > 20ng/ml, Gleason grade > 8, T3 disease on MRI
4. Patients must have radiographically documented measurable disease on pelvic MRI scan within 3 months of trial entry
5. Age over 18 with no upper age limit
6. Before patient registration, written informed consent must be given according to GCP and local regulations.
7. Male participants
8. Lower Age Limit 18 years

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

Male

**Total final enrolment**

50

**Key exclusion criteria**

1. Metastatic disease (including pelvic lymph node metastases) on conventional imaging including pelvic MRI scan and isotope bone scan within 3 months of trial entry
2. PSA>50
3. T4 disease on pelvic MRI scan within 3 months of trial entry
4. Prior treatment for prostate cancer, either local or systemic (other than neoadjuvant androgen deprivation for a period of less than 3 months)
5. Current active malignancy other than prostate cancer or nonmelanomatous skin cancer
6. Previous radiotherapy to the pelvis
7. Comorbid conditions such that the technique of external beam radiotherapy is inappropriate
8. Contraindication to MRI (only applicable to patients that are being considered for entry into the imaging component of the study)
9. Current treatment with an ACE inhibitor
10. Any psychological, familial, sociological or geographical condition potentially hampering compliance with the study protocol and followup schedule; those conditions should be discussed with the patient before registration in the trial

**Date of first enrolment**

16/12/2011

**Date of final enrolment**

01/09/2013

## Locations

**Countries of recruitment**

United Kingdom

England

**Study participating centre**

Mount Vernon Hospital

Northwood

United Kingdom

HA6 2RN

## Sponsor information

**Organisation**

East and North Hertfordshire Hospitals NHS Trust (UK)

**ROR**

<https://ror.org/02ryc4y44>

## Funder(s)

**Funder type**

Charity

**Funder Name**

Prostate Cancer Charity (UK)

## Results and Publications

**Individual participant data (IPD) sharing plan**

Not provided at time of registration

**IPD sharing plan summary**

Not provided at time of registration

## Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">HRA research summary</a>		28/06/2023		No	No
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes
<a href="#">Plain English results</a>		15/09/2022		No	Yes