# Phase III study of HYPOfractionated RadioTherapy of intermediate risk localised Prostate Cancer

Submission date	Recruitment status No longer recruiting	<ul><li>Prospectively registered</li></ul>		
09/12/2008		Protocol		
Registration date	Overall study status	Statistical analysis plan		
10/02/2009	Completed	[X] Results		
Last Edited	Condition category	[] Individual participant data		
15/01/2021	Cancer			

# Plain English summary of protocol

Not provided at time of registration

# Contact information

## Type(s)

Scientific

#### Contact name

**Prof Anders Widmark** 

#### Contact details

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# Additional identifiers

**Protocol serial number** N/A

# Study information

## Scientific Title

Hypofractionated radiotherapy of intermediate risk localised prostate cancer: a phase III, randomised, open, multicentre trial

### Acronym

HYPO-RT-PC

## **Study objectives**

To demonstrate a 10% unit increase (70% to 80%) in freedom from failure (prostate specific antigen [PSA] or any clinical test) in the HYPO-RT arm at 5 years after the end of treatment.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Local medical ethics committee (Regionala etikprövningsnämnden i Umeå) gave approval on the 9th December 2003 (ref: 03-513)

## Study design

Phase III randomised open multicentre trial

## Primary study design

Interventional

## Study type(s)

Treatment

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

Intermediate risk localised prostate cancer

#### **Interventions**

Treatment technique:

The radiation treatment shall be given with external photon beam therapy with three-dimensional conformal radiotherapy (3D-CRT) and/or intensity modulated radiation therapy (IMRT) techniques. It is left to each centre to decide upon the optimal technique (number of beams, beam weights, beam angles, beam shaping, etc). The same treatment technique shall be used in both trial arms within the centre. The position of the prostate shall be verified prior to every fraction with electronic kV or MV portal imaging or x-ray volumetric imaging (cone beam CT) using implanted markers. The treatment should start as soon as readily possible after the verification/correction. The monitor units (dose) used for verification of position should be considered and compensated for if MV portal imaging is used. Each centre should have treated at least two patients with their specific marker and image guidance technique before entering the study.

#### Fractionation schedule and treatment durations:

Conventional arm: radiotherapy is given daily (5 days/week) with 39 fractions of 2.0 Gy, i.e. total 78.0 Gy. The total treatment time is 53 - 55 days. Maximum allowed treatment days are 65. Hypofractionated arm: radiotherapy is given working-days with 7 fractions of 6.1 Gy, i.e. total 42.7 Gy. The total treatment time is 15 - 19 days. Treatment is given every other weekday, always including two weekends.

## Clinical follow up:

Patients should be seen by a doctor (urologist/surgeon or oncologist) for clinical evaluation

every 3 months (+ 14 days) preferentially by an oncologist for the first year, and every six months (+ 28 days) thereafter until metastases are verified. Thereafter patients should be followed for verification of death.

## **Intervention Type**

Other

#### Phase

Phase III

## Primary outcome(s)

Freedom from failure (PSA or any clinical), measured five years after the end of treatment.

## Key secondary outcome(s))

- 1. PSA response rate
- 2. Time to symptoms related to local progression
- 3. Time to symptoms related to distant progression
- 4. Cancer specific survival
- 5. Overall survival
- 6. Quality of Life (QoL) and side effects with special focus on sexual function, urinary and gastrointestinal morbidity

Measured five years after the end of treatment.

## Completion date

30/06/2015

# **Eligibility**

## Key inclusion criteria

- 1. Men less than 75 years of age and, as judged by the doctor, a life expectancy of 10 years (except for cancer) at time of randomisation with performance status World Health Organization (WHO) grades 0 2
- 2. Patients with a histologically verified prostatic cancer
- 3. Patients with intermediate risk prostatic cancer of clinical category T1c T3a with one or two of the following risk factors:
- 3.1. T3a or Gleason greater than 7
- 3.2. PSA greater than 10 according to the TNM classification system UICC 2002
- 4. PSA less than 20 µg/L
- 5. The patients should have no evidence of metastases according to the definition above
- 6. Patients should be lymph node negative according to the definition above, i.e. staging
- 7. Patients should be suitable for radiotherapy
- 8. Patients must have signed informed consent

## Participant type(s)

**Patient** 

## Healthy volunteers allowed

No

## Age group

Adult

## Sex

Male

## Total final enrolment

1200

## Key exclusion criteria

- 1. Patients who earlier have undergone any other treatment for prostatic cancer
- 2. Patients unable to co-operate or suffering from any other form of disease that would interfere with the planned treatment (e.g. colitis)
- 3. Patients with previous diagnosis of other malignant disease. Exceptions could be made for basal cell carcinoma of the skin or progression free survival at least 10 years after any previous tumour.
- 4. Previous hormone therapy (castration or anti-androgens)
- 5. Any condition that prevent markers implantation, i.e. anal fissure

## Date of first enrolment

01/07/2005

## Date of final enrolment

30/06/2015

# Locations

## Countries of recruitment

Sweden

## Study participating centre Department of Oncology

Umeå Sweden SE-901 85

# Sponsor information

## Organisation

County Council of Västerbotten (Västerbottens läns landsting [VLL]) (Sweden)

#### **ROR**

https://ror.org/04xvhsp09

# Funder(s)

## Funder type

Research organisation

## Funder Name

Nordic Cancer Union (Nordiska Cancerunionens [NCU]) (Sweden)

# **Results and Publications**

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	03/08/2019	24/06/2019	Yes	No
Results article	quality of life results	01/02/2021	15/01/2021	Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes