# How do waiting times during diagnosis affect psychological and physiological stress in men with suspected prostate cancer?

Submission date	Recruitment status No longer recruiting	Prospectively registered		
26/06/2019		☐ Protocol		
Registration date	Overall study status Completed Condition category	Statistical analysis plan		
22/11/2019		Results		
Last Edited		Individual participant data		
21/01/2025	Cancer	[X] Record updated in last year		

# Plain English summary of protocol

Background and study aims

The diagnosis process for suspected prostate cancer is emotionally straining for patients and may, in itself, have negative health implications. Considerable variability in waiting-time during the diagnosis processes exists, but data are scarce on how it may affect the patients' distress level. In this clinical trial, we aim to compare stress-related symptoms and biomarkers during the diagnostic workup process among men with suspected prostate cancer who are randomized to either a fast-track diagnostic workup process or to usual care workup at the Urology Department at Örebro University Hospital in Sweden.

# Who can participate?

Males aged 85 years or less with suspected prostate cancer referred to the Urology Department at Örebro University Hospital.

# What does the study involve?

The study involves randomization of men with suspected prostate cancer to either a fast-track diagnostic workup process or to usual care diagnostic workup. The participants' stress levels are assessed at different time points during and after the diagnostic workup process, using questionnaires focused on self-reported symptoms of distress (anxiety, depression, distress, sleep disruption). Stress levels are further characterized through the repeated collection of saliva samples for assessment of diurnal cortisol patterns as well as thumb-ECGs for measurement of heart rate variability.

What are the possible benefits and risks of participating?

The possible benefits and risks of participating relate to reduced or increased stress levels and the potentially stress-linked health risk, respectively. The variation in duration of the workup and related potential treatment delay is not expected to influence the disease course.

Where is the study run from? Örebro University Hospital, Sweden When is the study starting and how long is it expected to run for? April 2015 to December 2021

Who is funding the study? Swedish Cancer Foundation

Who is the main contact? Dr Katja Fall Katja.Fall@oru.se

# **Contact information**

# Type(s)

Scientific

#### Contact name

Dr Katja Fall

#### **ORCID ID**

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# Additional identifiers

# Clinical Trials Information System (CTIS)

Nil known

# ClinicalTrials.gov (NCT)

Nil known

#### Protocol serial number

266361 (FOU ÖREBRO)

# Study information

#### Scientific Title

Prostate cancer Stress Surveillance and Survival (ProCeSS): evaluation of a fast-track clinical workup for men with suspected prostate cancer

#### Acronym

ProCeSS

### **Study objectives**

Waiting time during diagnostic workup for suspected prostate cancer effects psychological and physiological measures of stress relevant to health and disease

### Ethics approval required

Old ethics approval format

# Ethics approval(s)

Approved 11/11/2014, Ethics review board Örebro University Hospital (Örebro läns landsting, Box 1613, 701 16, Örebro, Sweden; Registrator@uppsala.epn.se; +46 18 4717400) ref: 2014/348 /1

# Study design

Randomized clinical trial double-blind single-centre

#### Primary study design

Interventional

# Study type(s)

Other

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

Prostate cancer

#### **Interventions**

Men with suspected prostate cancer are randomized to regular or fast-track diagnostic work-up.

The fast-track intervention entails a diagnostic workup process where the shortest possible waiting-time is targeted: 1 week between randomization and the urologist visit with biopsy (if needed), 1 week between biopsy and diagnosis, and 1 week between diagnosis and treatment decision. The usual care group has waiting-times of approximately 1 week to 3 months, about 2 weeks, and 2 weeks during these steps, respectively. Men in both arms are first assessed at the urology clinic directly after randomization and again during a first urologist visit where a diagnostic biopsy is taken. Subsequent assessments are made 1, 6 and 12 months after randomization.

Written informed consent is obtained by a research nurse before participants are randomized to either fast-track workup or to usual care. Group assignment cards, which have been randomly placed into sealed envelopes, are drawn for allocation of management. All participants are informed that their experience of the diagnostic work-up process is assessed, and that they will be blinded with regard to study group. A research nurse registers the assignment group and arranges the workup process according to the assigned management. The assigned treatment group is therefore not revealed to either urologist or patient.

# Intervention Type

Other

# Primary outcome(s)

At baseline, 1, 6 and 12 months:

- 1. Depression and anxiety with the Hospital Anxiety and Depression Scale (HADS)
- 2. Self-evaluated distress with the National Comprehensive Cancer Network (NCCN) distress

#### thermometer

3. Sleep quality and disturbances through the Åkerstedts Karolinska Sleep Questionnaire

## Key secondary outcome(s))

At baseline, 1, 6 and 12 months:

- 1. Heart rate variability measured using thumb-ECG
- 2. Diurnal cortisol level measured using saliva cortisol

# Completion date

31/12/2022

# **Eligibility**

## Key inclusion criteria

- 1. Referred to the Urology Department at Örebro University Hospital for suspected prostate cancer
- 2. Male
- 3. Aged 85 years or younger
- 4. Able to speak and write Swedish

#### Participant type(s)

Patient

# Healthy volunteers allowed

No

#### Age group

Mixed

#### Sex

Male

# Key exclusion criteria

- 1. Signs of advanced prostate cancer. Metastatic prostate cancer and cancer with prostate-specific antigen level (PSA) >100 mg/l are defined as advanced prostate cancer
- 2. Severe psychiatric or somatic diseases
- 3. Any other malignancy

#### Date of first enrolment

14/04/2015

#### Date of final enrolment

31/12/2021

# Locations

#### Countries of recruitment

Sweden

# Study participating centre Örebro University Hospital

Södra Grev Rosengatan Örebro Sweden 70185

# **Sponsor information**

## Organisation

Örebro University Hospital

#### **ROR**

https://ror.org/02m62qy71

# Funder(s)

## Funder type

Charity

#### **Funder Name**

**Swedish Cancer Foundation** 

#### Alternative Name(s)

#### **Funding Body Type**

Private sector organisation

#### **Funding Body Subtype**

Trusts, charities, foundations (both public and private)

#### Location

Sweden

# **Results and Publications**

## Individual participant data (IPD) sharing plan

The current data sharing plans for this study are unknown and will be available at a later date

### IPD sharing plan summary

Data sharing statement to be made available at a later date

# Study outputs

Output type	e Details	Date created	Date d added	Peer reviewed	Patient- ? facing?
Other publications	Psychological and physiological impacts of a fast-track diagnostic workup for men with suspected prostate cancer: Preliminary report from a randomized clinical trial	07/04 /2020	21/01 /2025	Yes	No
Participant information sheet	Participant information sheet	11/11 /2025	11/11 /2025	No	Yes