

# Prostate disease Screening Program in Novohopersk area of Voronezh region ("Novohopersk")

<b>Submission date</b> 26/08/2014	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 22/09/2014	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 29/05/2020	<b>Condition category</b> Cancer	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Prostate cancer in men is very common. However, it usually develops slowly with the first signs of the disease being problems with urinating once the prostate is large enough to press against the urethra (the tube that takes urine from the bladder to the penis). If caught early, this form of cancer is very treatable and many countries have screening programmes to detect it. Early stage prostate cancer can be diagnosed using a blood test called the prostate-specific antigen (PSA) test. An increased amount of PSA can, in some cases, happen due to prostate cancer. In Russia, the number of men with prostate cancer is rather high, is increasing and has a high mortality rate (high number of men dying from the disease). The high mortality rate is a result of a large number of cases not being diagnosed until the disease is at an advanced stage and has already spread to other parts of the body. A PSA test cannot be used to definitely detect the condition as it can also be raised due to, for example, non-cancerous growths and urinary tract diseases. However, Russia healthcare services do need a method to detect prostate cancer earlier. Here, we are going to look at how possible it is to have a PSA test screening programme in Russia, how well it would perform and whether it would be worth spending money on such a programme. We want to estimate how many men in a particular region have the disease, at what stage the cancer is detected and how useful a PSA test might be in screening for the disease, particularly for men aged 45-54 (as this age group is less likely to be included in PSA screening programmes). We also want to calculate how much a screening programme would cost and whether it would be worth the money involved, taking into account the relatively short male life expectancy in Russia.

### Who can participate?

Men aged 45-65 in the Novohopersk area of the Voronezh Region (VO)

### What does the study involve?

After gathering clinical information for all the participants (from the state medical compulsory insurance system), they are invited for a PSA test at a study centre. They then have a physical examination to check for prostate cancer and undergo a transrectal ultrasound scan (TRUS) to see how large the prostate gland is. In those cases where prostate cancer is found, the affected

participants undergo further tests to see how far the cancer has progressed (pelvic MRI, bone scintigraphy and possible abdominal, peritoneal and thoracic CT scans).

What are the possible benefits and risks of participating?

The major benefits to participants taking part in the study are a high quality medical examination and early detection of prostate cancer. The risks involve infections and other complications and side-effects of biopsy.

Where is the study run from?

1. Federal State Research Scientific Institute of Urology of the Health Ministry of Russia (Russia)
2. Healthcare Department of Voronezh Region (Russia)
3. MBHI Novohapersk Central Regional Hospital (Russia)
4. VO BHI Voronezh Regional Clinical Hospital N1 (Russia)

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

December 2013 to January 2015.

Who is funding the study?

1. Federal State Research Scientific Institute of Urology of the Health Ministry of Russia (Russia)
2. Healthcare Department of Voronezh Region (Russia)
3. MBHI Novohapersk Central Regional Hospital (Russia)
4. VO BHI Voronezh Regional Clinical Hospital N1 (Russia)
5. LLC Beckman Coulter (Russia)

Who is the main contact?

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## Contact information

**Type(s)**

Scientific

**Contact name**

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## Additional identifiers

**Protocol serial number**

N/A

## Study information

**Scientific Title**

Population-based screening study: feasibility and effects evaluation of prostate cancer (PCa) screening in Russia and evaluation of economic efficacy

**Acronym**

SPiNAV

**Study objectives**

It is hypothesized that screening decreases mortality.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

Local ethical committee, 28/10/2013, ref. N98

**Study design**

12-months population-based study

**Primary study design**

Interventional

**Study type(s)**

Screening

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

Prostate disease/prostate cancer

**Interventions**

1. All involved patients fill questionnaires (IPSS/QoL, SWOP - calculator 1,2 and 4)
2. Blood serum PSA level detection
3. Digital rectal examination (DRE)
4. Transrectal ultrasound scan (TRUS)
5. Pelvic MRI (1 month after prostate biopsy)
6. Bone scintigraphy (PSA level  $\geq$  20 ng/ml)
7. Thorax CT, X ray
8. Abdominal, peritoneal and thoracic CT scan (by indications)

**Intervention Type**

Other

**Phase**

Not Applicable

**Primary outcome(s)**

1. Prostate cancer detection rate (%)
2. Prostate cancer detection rate in age groups (%)
3. Prostate cancer detection rate by stages (TNM system)
4. PSA sensitivity, specificity, PPV and NPV (%)
5. Prostate cancer detection costs in one patient in rubles

6. Localized clinically significant (treatment needed) prostate cancer detection costs in one patient in rubles

### **Key secondary outcome(s)**

1. Questionnaires (IPSS/QoL, SWOP calculator 1,2 and 4) - results registered in points and percents
2. Blood serum PSA level detection (PSA) - ng/ml
3. Digital rectal examination (DRE) - positive/negative
4. Transrectal ultrasound scan (TRUS), (positive/negative) including determination of prostate volume in cc
5. Prostate biopsy (standard 12 core) with morphological examination of tissue samples
6. Cancer staging - registered in TNM system

### **Completion date**

01/01/2015

## **Eligibility**

### **Key inclusion criteria**

Men aged 45-65

### **Participant type(s)**

Patient

### **Healthy volunteers allowed**

No

### **Age group**

Adult

### **Sex**

Male

### **Key exclusion criteria**

Prostate cancer in anamnesis

### **Date of first enrolment**

01/12/2013

### **Date of final enrolment**

01/01/2015

## **Locations**

### **Countries of recruitment**

Russian Federation

### **Study participating centre**

**3d Parkovaya str**  
Moscow  
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105425

## Sponsor information

### Organisation

Federal State Research Institute of Urology of Ministry of Health Care of Russia (Russia)

### ROR

<https://ror.org/01p8ehb87>

## Funder(s)

### Funder type

Other

### Funder Name

Federal State Research Institute of Urology of the Ministry of Health Care of Russia, Moscow (Russia)

### Funder Name

Healthcare Department of Voronezh Region (Russia)

### Funder Name

MBHI Novohapersk Central Regional Hospital (Russia)

### Funder Name

VO BHI Voronezh Regional clinical hospital N1 (Russia)

### Funder Name

LLC Beckman Coulter (Russia)

# Results and Publications

Individual participant data (IPD) sharing plan

**IPD sharing plan summary**

Not provided at time of registration