

**MINISTRY OF HEALTH  
OF THE RUSSIAN FEDERATION**  
National Medical Research Radiological Centre



# **ORGANIZATION OF CANCER RESEARCH AND CARE AT NATIONAL MEDICAL RESEARCH RADIOLOGICAL CENTRE (NMRRC)**

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**Since October 2014**

**National Medical  
Research Radiological  
Centre (NMRRC) of the  
Ministry of Health of the  
Russian Federation**



# STRUCTURE

**A. Tsyb Medical Radiology  
Research Centre**  
(Obninsk, Kaluga Region)

**P. Herzen Moscow  
Oncological  
Research Institute**  
(Moscow)



**N. Lopatkin scientific  
Research Institute of  
Urology and Interventional  
Radiology**  
(Moscow)

**National Medical Radiology  
Research Centre**  
(Obninsk, Kaluga Region)





# National Medical Research Radiological Centre

## **For patients:**

- modern oncological diagnostic methods and treatment programs
- High tech medical care
- oncology center of reproductive organs

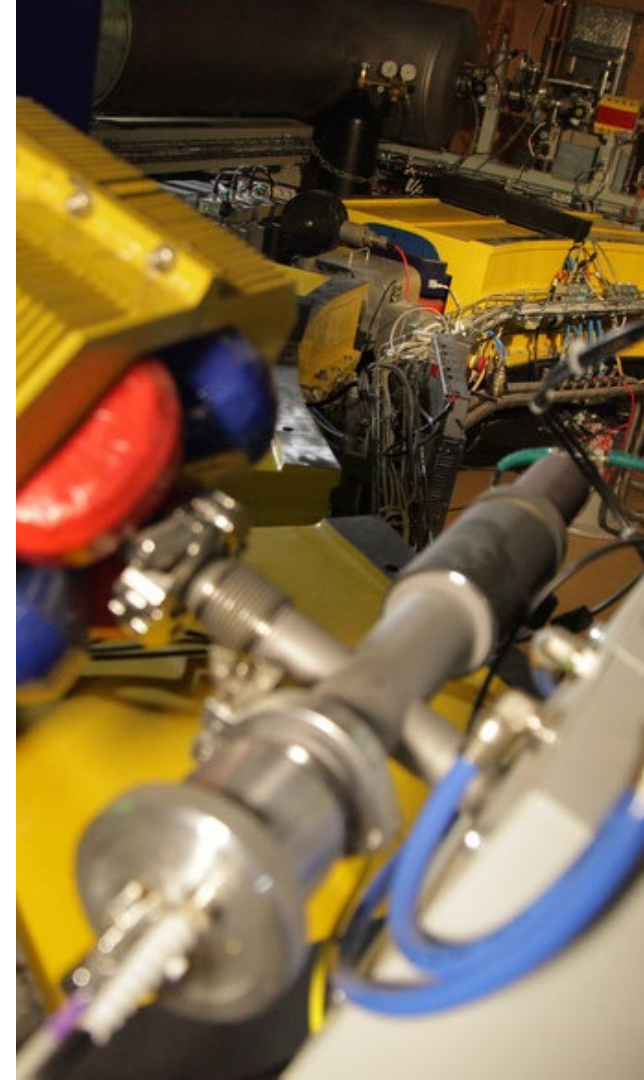
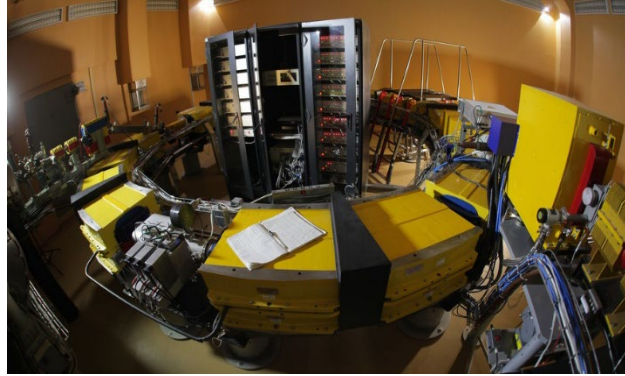
## **For Science:**

- Applied Healthcare Research
- Fundamental Healthcare Research
- Deep involvement in international medical community

## **For doctors:**

- Residency
- Fellowship
- Training
- Council of Young Scientists
- Conferences Grants





## Core Areas of Work

### Radiation Therapy

various technologies of conformal X-ray therapy (3D, IMRT, IGRT) and non-conventional techniques of distant photon therapy, including the combination of the latter with local hyperthermia



## Core Areas of Work

### Radiotherapeutics

- interstitial radiotherapy techniques, including sealed-source therapy of prostate cancer and oral cavity tumors
- radioiodine therapy for patients with thyroid cancer and thyrotoxicosis
- radionuclide therapy in case of bone metastases

### X-Ray Surgery Endovascular Surgery





## Core Areas of Work

### Diagnostics

new methods of diagnostics as a basis for personal treatment programs:

- Development of personalized mathematical algorithms for the use of tumor-associated markers (more than 60);
- Photodynamic diagnosis - identification of hidden foci of early cancer;
- Laser endomicroscopy - lifetime endoscopic evaluation of tumor heterogeneity

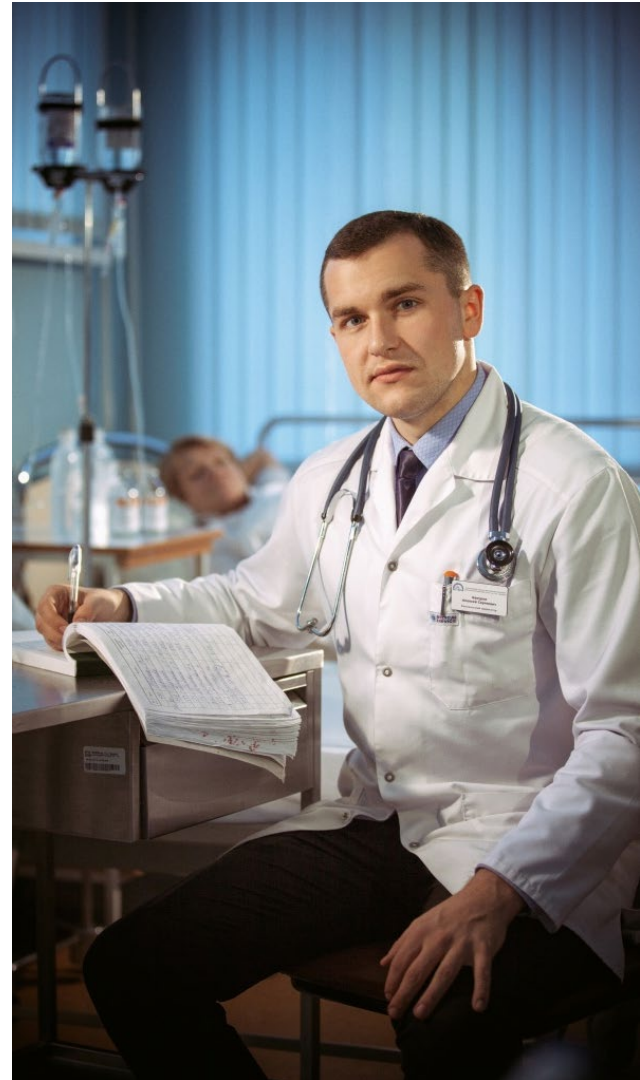




## Core Areas of Work

### Chemotherapy

Extensive use of the so-called “smart”  
drugs.







## Core Areas of Work

### Surgical treatment

- abdominal, thoracic, thoraco-abdominal surgeries, breast and skin reconstructive surgery, microsurgery, oncologic orthopedics, neurosurgery, oncurology, gynecologic oncology, gynecology (including IVF), X-ray surgery, urology, kidney transplantation and dialysis.
- necessary multiprofile high tech medical care.
- the use of modern tools and supplies, including microsurgical, endoscopic, endovascular, laser surgery, etc. ensures the quality of service.

# P. Hertsen Moscow Oncology Research Institute

The oldest cancer clinic in  
Europe

- established in 1898



- Outpatient clinic
- Scientific and educational department
- Clinic of experimental veterinary

- **18** clinical and experimental departments
- **7** diagnostic departments
- **3** centers in the Institute (Centre for informational technologies and epidemiology, Centre for palliative care, Centre for laser and photodynamic therapy)





# P. Hertsen Moscow Oncology Research Institute

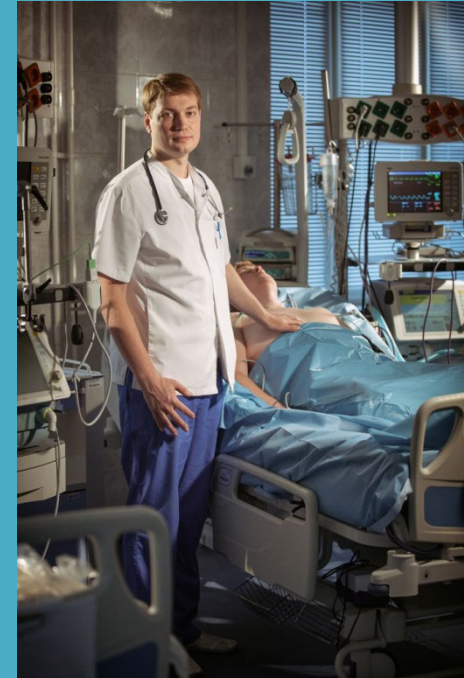
Annually:

- 8000 cases of specialized treatment in hospital
- 2500 cases of day-time hospital treatment



- 1100 employees
- 174 research scientists
- 355 beds

- 60% - high-tech medical care
- 49000 - outpatients



# A.Tsyb Medical Radiological Research Centre

Founded in Obninsk in 1962

4 Korolev street,  
Obninsk, 249036, Kaluga region, Russian  
Federation  
Tel.: +7(4843)9-30-06  
<http://mrrc-obninsk.ru>



## Leader in development of:

- methods for radiation therapy effectiveness improvement;
- radionuclide therapy treatments for cancer, metastases and palliative remedy;
- radiotherapeutics and radiomodifiers

1700 workers including:

- 310 Researchers:
  - 60 DSs including
  - 30 Professors and
  - 172 PhDs





# A.Tsyb Medical Radiological Research Centre

## Directions of work:

- Radiation Therapy
- Radionuclide Therapy
- Personalized therapy



- Cellular and Molecular Radiobiology and Genetics
- Radiopharmacy, Pharmacy

- Radiation Epidemiology and Radiation Dosimetry
- Training in Radiotherapy, Radiology, Radiobiology



# A.Tsyb Medical Radiological Research Centre

- 16 clinical divisions
- 10 diagnostic clinical divisions and laboratories
- Outpatients clinic



- 11 experimental laboratories
- National Radiation Epidemiological Registry

- Experimental-biological clinic with vivarium
- Scientific and educational department





# A.Tsyb Medical Radiological Research Centre

## Annually:

- **10250** cases of specialized treatment in hospital
- **40 000** - outpatients



- **60%** - high-tech medical care
- **134** physicians

- **403** nurses and laboratory assistants
- **400** beds



# N. Lopatkin Scientific Research Institute of Urology and Interventional Radiology

- Founded in 1979 as the Head federal urological institution



- Leader of organizational-methodical provision in Urology as a field of Russian health care

51, 3rd Parkovaya street.  
105425, Moscow, Russian Federation  
Tel.: +7(495)367-75-87  
<http://uro.ru>





# N. Lopatkin Scientific Research Institute of Urology and Interventional Radiology

- Oncourology
- Urodynamics and functional disorders of pelvis organs
- Andrology and human reproduction

- 7 clinical units
- 5 diagnostic units
- 16 scientific divisions and labs
- Outpatients



- 5 Professors
- 54 MDs
- 21 PhDs



# N. Lopatkin Scientific Research Institute of Urology and Interventional Radiology

- Advanced methods
- Laparoscopic
- Endovideosurgery
- ESWL and contact laser lithotripsy
- Microsurgery
- Reconstructive plastic surgery



- Transplantations of organs and tissues
- Brachithery
- Ablative technologies: HIFU, Crioablation, photodynamic therapy, RFA

- 3200 treated patients
- 32000 bed days
- 3600 surgeries
- 60% high-tech medical care
- 12000 outpatient consultations
- 150 beds





World Health  
Organization

# National Medical Radiology Research Centre:

International cooperation



WHO  
IARC



IAEA  
International Atomic Energy Agency



Collaboration with  
international organizations  
(expertise, data exchange,  
participation in meetings  
and conferences)



United Nations Scientific Committee  
on the Effects of Atomic Radiation





# National Medical Radiology Research Centre:



International cooperation



Heidelberg University Hospital



# National Medical Radiology Research Centre:

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International cooperation



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