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)

National Medical Radiology Research Centre
(Obninsk, Kaluga Region)

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

• 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)

• Outpatient clinic
• Scientific and educational department
• Clinic of experimental veterinary
P. Hertsen
Moscow
Oncology
Research
Institute

Annually:
• 8000 cases of specialized treatment in hospital
• 2500 cases of day-time hospital treatment

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

• 1100 employees
• 174 research scientists
• 355 beds
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

1700 workers including:
• 310 Researchers:
  • 60 DSs including
  • 30 Professors and
  • 172 PhDs

Leader in development of:
• methods for radiation therapy effectiveness improvement;
• radionuclide therapy treatments for cancer, metastases and palliative remedy;
• radiotherapeutics and radiomodifiers
A.Tsyb Medical Radiological Research Centre

Directions of work:
- Radiation Therapy
- Radionuclide Therapy
- Personalized therapy
- Radiation Epidemiology and Radiation Dosimetry
- Training in Radiotherapy, Radiology, Radiobiology
- Cellular and Molecular Radiobiology and Genetics
- Radiopharmacy, Pharmacy
A. Tsyb Medical Radiological Research Centre

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

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

- 11 experimental laboratories
- National Radiation Epidemiological Registry
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

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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

- 7 clinical units
- 5 diagnostic units
- 16 scientific divisions and labs
- Outpatients
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
• Brachitherapy
• 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
National Medical Radiology Research Centre:

International cooperation

Collaboration with international organizations (expertise, data exchange, participation in meetings and conferences)
National Medical Radiology Research Centre:

International cooperation
National Medical Radiology Research Centre:

International cooperation