The first and the main Ukrainian National Breast Cancer Center was founded in 1997 in the Ukrainian National Cancer Institute (UNCI). National center implements a multidisciplinary, comprehensive approach to breast cancer screening, treatment and survivorship. National center provides full range of services including diagnosis, cancer treatment including surgery, chemotherapy and radiation, most of the oncoplastic breast procedures and reconstructive surgeries, patient support services, access to clinical trials and survivorship support. We proclame receiving highly personalized, multidisciplinary care in supportive setting for all our patients. Our qualified physicians are well known specialists in the country. In the National Center our team of breast cancer experts are specialized in the diagnosis and treatment of breast cancer patients and offer the most advanced services in breast cancer prevention, diagnosis and treatment.

**National Cancer Institute**

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### Available services

- Radiology
- Breast Surgery
- Reconstructive/Plastic Surgery
- Pathology
- Medical Oncology
- Radiotherapy
- Nuclear Medicine
- Rehabilitation
- Genetic Counselling
- Data Management
- Psycho-oncology
- Breast Nurses
- Social Workers
- Nutritional Counselling
- Survivorship Groups
- Sexual Health Counselling
- Supportive and Palliative Care
- Integrative Medicine

### Radiology

<table>
<thead>
<tr>
<th>Available imaging equipment</th>
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<tbody>
<tr>
<td>Mammography</td>
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<tr>
<td>Ultrasound</td>
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<tr>
<td>Magnetic Resonance Imaging (MRI)</td>
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</table>

**Available work-up imaging equipment**

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<tr>
<td>Ultrasound</td>
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<tr>
<td>Magnetic Resonance Imaging (MRI)</td>
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<tr>
<td>PET/CT scan</td>
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</table>

**Primary technique for localizing non-palpable lesions**

- Hook-wire (or needle localization)
- Charcoal marking/tattooing
- ROLL: radio-guided occult lesion localization

**Available breast tissue sampling equipment**

- Stereotactic Biopsy (Mammography guided)
- Core Biopsy (Tru-cut)
- Vacuum assisted biopsy
- Ultrasound-guided biopsy
- Fine-needle aspiration biopsy (FNAB, cytology)
- Core Biopsy
- Vacuum assisted biopsy
- MRI-guided biopsy
- Core Biopsy
- Vacuum assisted biopsy

### Breast Surgery

- New operated cases per year (benign and malignant) 1017
- Dedicated Breast Surgeons 6
- Surgeons with more than 50 surgeries per year 7
- Breast Surgery beds 45
- Breast Nurse specialists 10
- Outpatient surgery
- Intra-operative evaluation of sentinel node
- Reconstruction performed by Breast Surgeons

**Primary technique for staging the axilla**

- Axillary lymph node dissection
- Sentinel lymph node biopsy:
  - Blue dye technique
  - Radio-tracer technique
  - Blue dye + Radio-tracer
- Axillary sampling
Reconstructive/Plastic Surgery

- **Reconstructive/Plastic surgeons**: 260
- **Immediate Reconstruction available**: 
  - Remodelling after breast-conserving surgery
  - Reconstruction after mastectomy:
    - Two-stage reconstruction (tissue expander followed by implant)
    - One-stage reconstruction
    - Autogenous tissue flap
      - Latissimus dorsi flap
      - Transverse rectus abdominis (TRAM)
    - Free-flaps (free TRAM, DIEP, SIEA, gluteal, etc.)
  - Surgery on the contralateral breast for symmetry

Pathology

- **Dedicated Breast Pathologists**: 4

**Available studies**

- Cytology
- Haematoxylin & eosin section (H&E)
- Surgical specimen
- Sentinel node
- Core biopsy
- Frozen section (FS)
- Surgical specimen
- Sentinel node
- Immunohistochemistry stain (IHC)
  - Estrogen receptors
  - Progesterone receptors
  - HER-2
  - Ki-67

**Other special studies available**

- Fluorescence in-situ Hybridization for HER-2 gene (FISH)
- Oncotype Dx (21-gene assay)
- MammaPrint (70-gene microarray)
- Prediction Analysis of Microarray 50-gene set (PAM 50)

**Parameters included in the final pathology report**

- Pathology stage (pT and pN)
- Tumour size (invasive component in mm)
- Histologic type
- Tumor grade
- ER/PR receptor status
- HER-2/neu receptor status
- Peritumoural/Lymphovascular invasion
- Margin status

Medical Oncology

- **Dedicated Breast Medical Oncologists**: 4
  - Outpatient systemic therapy
  - Clinical Research
Radiotherapy

- Dedicated Radiation Oncologists
- Clinical Research
- Available techniques after breast-conserving surgery (including experimental)
  - Whole-Breast RT (WBRT)
  - Partial breast irradiation (PBI):
    - External beam PBI
    - Interstitial brachytherapy
    - Targeted brachytherapy (MammoSite, SAVI applicator, other devices)
    - Intra-operative RT (IORT)

Multidisciplinary Meeting (MDM) / Tumour Board (TB)

- Regular MDM/TB for case management discussion
  - Twice a week
  - Weekly
  - Every two weeks
  - Other Schedule

Cases discussed at MDM/TB
- Preoperative cases
- Postoperative cases
- Specialties/services participating in MDM/TB
  - Radiology
  - Breast Surgery
  - Reconstructive/Plastic Surgery
  - Pathology
  - Medical Oncology
  - Radiotherapy
  - Genetic Counselling
  - Breast Nurse Service
  - Psycho-oncology

Further Services and Facilities

Nuclear Medicine
- Lymphoscintigraphy
- Bone scan
- Positron Emission Tomography (PET)
- PET/CT scan

Rehabilitation
- Prosthesis service
- Physiotherapy
- Lymph-oedema treatment

Genetic Counselling
- Specialist Providing Genetic Counselling/Risk assessment service:
  - Dedicated Clinical Geneticist
  - Medical Oncologist
  - Breast Surgeon
  - General Surgeon
  - Gynaecologist
- Genetic Testing available
- Surveillance program for high-risk women

Data Management
- Database used for clinical information
- Data manager available
# Contact details

## Clinical Director

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## Radiology

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Last modified: 28 April 2014