



BREAST CENTRES NETWORK

Synergy among Breast Units

★ National Institute of Oncology - Budapest, Hungary

General Information



New breast cancer cases treated per year 1262

Breast multidisciplinary team members 29

Radiologists, surgeons, pathologists, medical oncologists, radiotherapists and nurses

Clinical Director: Zoltán Mátrai, MD, PhD

The National Institute of Oncology is the organisational, cancer prevention, treatment and scientific coordinating centre for Hungarian oncology, the only comprehensive cancer centre of the country. The Institute is member of the Organisation of European Cancer Institutes (OECI) and is part of a good number of international organisations (WHO, UICC, OECI, EACR, EORTC). The Breast Unit provides the oncoplastic surgical care of 12% of all newly diagnosed primary breast cancers in the country, it controls and takes part in the national population breast screening programme, performs the radiotherapy of a much larger population of 4.5 million inhabitants and controls and performs the medical oncological breast care of the central region of the country. The multidisciplinary care has the merit of the highly educated breast specialists of different scientific fields (with academic degrees and UEMS qualifications) operating according to the Breast Unit criteria of EUSOMA. The Unit participates in several national and international clinical trials and prospective studies. Furthermore, there are several colleagues for rehabilitation and psycho-oncological and social care.

National Institute of Oncology

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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

- Dedicated Radiologists** 5
- Mammograms per year** 16300
- Breast radiographers**
- Screening program**
- Verification for non-palpable breast lesions on specimen**
- Axillary US/US-guided FNAB**
- Clinical Research**

Available imaging equipment

- Mammography
- Ultrasound
- Magnetic Resonance Imaging (MRI)

Available work-up imaging equipment

- Computer Tomography
- Ultrasound
- Magnetic Resonance Imaging (MRI)
- PET/CT scan

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)** 1277
- Dedicated Breast Surgeons** 8
- Surgeons with more than 50 surgeries per year** 6
- Breast Surgery beds** 32
- Breast Nurse specialists** 2
- Outpatient surgery**
- Intra-operative evaluation of sentinel node**
- Reconstruction performed by Breast Surgeons**
- Clinical Research**

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** 5
- ✓ **Immediate Reconstruction available**

Type of breast reconstructive surgery 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
- ✓ Oncoplastic Breast Conserving Surgery

Pathology

- ✓ **Dedicated Breast Pathologists** 5

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
- ✓ Ki67, NPI,

Medical Oncology

- ✓ **Dedicated Breast Medical Oncologists** 8
- ✓ **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)

Intensity-Modulated Radiation Therapy (IMRT), Image Guided Radiation Therapy (IGRT)

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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From airport:

There are busses from the airport to the end station of Metro 3. Then change to Metro 2 at Deak Ferenc ter station and travel to Deli Palyaudvar station. The Institute is just a 5-minute walk.

By train:

A major train station (Deli Palyaudvar) is just a 5-minute walk from the National Institute of Oncology.

By bus or sub-way/underground:

The end station of Metro 2 (Deli Palyaudvar) is just a 5-minute walk from the National Institute of Oncology.

By car:

The Institute can easily be approached from the direction of Szell Kalman ter, a major intersection. Parking places are available along streets Kekgolyo utca and Rath Gyorgy utca.

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