

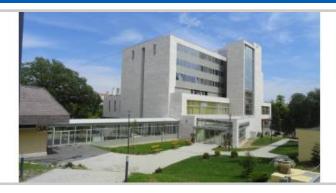


## **BREAST CENTRES NETWORK**

Synergy among Breast Units

# National Institute of Oncology - Budapest, Hungary

#### **General Information**



1262 New breast cancer cases treated per year 29 Breast multidisciplinarity team members Radiologists, surgeons, pathologists, medical oncologists, radiotherapists and

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
   ✓ Mammograms per year
   ✓ Breast
   radiographers
   ✓ Screening program
   ✓ Verification for
   non-palpable breast lesions
   on specimen
   ✓ Axillary US/US-guided
   FNAB
- 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
  Core Biopsy
  Vacuum assisted biopsy

#### **Breast Surgery**

✓ Clinical Research

✓ 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

#### National Institute of Oncology Reconstructive/Plastic Surgery Reconstructive/Plastic surgeons Type of breast reconstructive surgery available ✓ 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 ✓ Oncoplastic Breast Conserving Surgery **Pathology** Dedicated Breast Pathologists 5 Other special studies available Available studies ✓ Fluorescence in-situ Hybridization for HER-2 gene (FISH) Cytology ✓ Oncotype Dx (21-gene assay) ✓ Haematoxylin & eosin section (H&E) ☐ MammaPrint (70-gene microarray) ✓ Surgical specimen Prediction Analysis of Microarray 50-gene set (PAM 50) ✓ Sentinel node Parameters included in the final pathology report ✓ Core biopsy ✓ Pathology stage (pT and pN) ✓ Frozen section (FS) ✓ Tumour size (invasive component in mm) ✓ Surgical specimen ✓ Histologic type ✓ Sentinel node ✓ Tumor grade ✓ Immunohistochemistry stain (IHC) ✓ ER/PR receptor status Estrogen receptors ✓ HER-2/neu receptor status ✓ Progesterone receptors Peritumoural/Lymphovascular invasion ₩ HER-2 Margin status ✓ Ki-67 ☑ Ki67, NPI, **Medical Oncology**

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Dedicated Breast Medical Oncologists

Outpatient systemic therapy

✓ Clinical Research

adiotherapy	
☑ Dedicated Radiation Oncologists	
✓ Dedicated Radiation Officologists ✓ Clinical Research	Available techniques after breast-conserving surgery (including experimental)
	₩ Whole-Breast RT (WBRT)
	✓ Partial breast irradiation (PBI):
	☑ External beam PBI
	lacksquare Interstitial brachytherapy
	$\square$ Targeted brachytherapy (MammoSite, SAVI applicator, other devices)
	☐ Intra-operative RT (IORT)
	$ lap{N}$ Intensity-Modulated Radiation Therapy (IMRT), Image Guided Radiation Therapy (IGRT)
ultidisciplinary Meeting (MDM) / Tumour Board (	(ТВ)
Regular MDM/TB for case management discussion	Specialties/services participating in MDM/TB
☑ Twice a week	<b>☑</b> Radiology
Weekly	✓ Breast Surgery
Every two weeks	✓ Reconstructive/Plastic Surgery
Other Schedule	✓ Pathology
Cases discussed at MDM/TB	✓ Medical Oncology
	✓ Radiotherapy
✓ Preoperative cases	✓ Genetic Counselling
Postoperative cases	☐ Breast Nurse Service
	✓ Psycho-oncology
urther Services and Facilities	
Nuclear Medicine	Genetic Counselling
Lymphoscintigraphy	✓ Specialist Providing Genetic Counselling/Risk assessment
☑ Bone scan	service:  ☑ Dedicated Clinical Geneticist
Positron Emission Tomography (PET)	Medical Oncologist
☑ PET/CT scan	Breast Surgeon
Rehabilitation	General Surgeon
	Gynaecologist
Prosthesis service	
☑ Physiotherapy	Genetic Testing available
Lymph-oedema treatment	☑ Surveillance program for high-risk women
	Data Management
	✓ Database used for clinical information
	☑ Data manager available

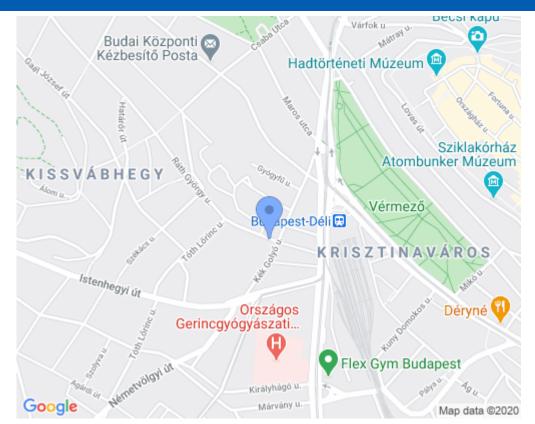
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#### From airport:

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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