National Institute of Oncology - Budapest, Hungary

General Information

New breast cancer cases treated per year 997

Breast multidisciplinarity team members 28

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 co-ordinating 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

Ráth György u 7-9.
1122 Budapest,
Phone: +3612248600
Fax: +3612248620
E-mail: matraidok@oncol.hu
Web-site: www.oncol.hu

Available services

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

Radiology

- [x] **Dedicated Radiologists** 4
- [x] **Mammograms per year** 16200
- [x] **Breast radiographers**
- [x] **Screening program**
- [x] **Verification for non-palpable breast lesions on specimen**
- [x] **Axillary US/US-guided FNAB**
- [x] **Clinical Research**

Available imaging equipment

- [x] Mammography
- [x] Ultrasound
- [x] Magnetic Resonance Imaging (MRI)

Available work-up imaging equipment

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

Primary technique for localizing non-palpable lesions

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

Available breast tissue sampling equipment

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

Breast Surgery

- [x] **New operated cases per year (benign and malignant)** 1047
- [x] **Dedicated Breast Surgeons** 8
- [x] **Surgeons with more than 50 surgeries per year** 6
- [x] **Breast Surgery beds** 32
- [x] **Breast Nurse specialists** 2
- [x] **Outpatient surgery**
- [x] **Intra-operative evaluation of sentinel node**
- [x] **Reconstruction performed by Breast Surgeons**
- [x] **Clinical Research**

Primary technique for staging the axilla

- [ ] Axillary lymph node dissection
- [x] Sentinel lymph node biopsy:
  - [ ] Blue dye technique
  - [ ] Radio-tracer technique
  - [x] 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

- [x] Dedicated Radiation Oncologists
- [x] Clinical Research

Available techniques after breast-conserving surgery (including experimental)

- [x] Whole-Breast RT (WBRT)
- [x] Partial breast irradiation (PBI):
  - [x] External beam PBI
  - [x] Interstitial brachytherapy
  - [ ] Targeted brachytherapy (MammoSite, SAVI applicator, other devices)
  - [ ] Intra-operative RT (IORT)
  - [x] Intensity-Modulated Radiation Therapy (IMRT), Image Guided Radiation Therapy (IGRT)

Multidisciplinary Meeting (MDM) / Tumour Board (TB)

Regular MDM/TB for case management discussion

- [x] Twice a week
- [ ] Weekly
- [ ] Every two weeks
- [ ] Other Schedule

Cases discussed at MDM/TB

- [x] Preoperative cases
- [x] Postoperative cases

Specialties/services participating in MDM/TB

- [x] Radiology
- [x] Breast Surgery
- [x] Reconstructive/Plastic Surgery
- [x] Pathology
- [x] Medical Oncology
- [x] Radiotherapy
- [x] Genetic Counselling
- [ ] Breast Nurse Service
- [x] Psycho-oncology

Further Services and Facilities

Nuclear Medicine

- [x] Lymphoscintigraphy
- [x] Bone scan
- [ ] Positron Emission Tomography (PET)
- [x] PET/CT scan

Rehabilitation

- [x] Prosthesis service
- [x] Physiotherapy
- [x] Lymph-oedema treatment

Genetic Counselling

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

Data Management

- [x] Database used for clinical information
- [x] Data manager available

Contact details

Clinical Director

Zoltán Mátrai, MD, PhD	Head of Breast and Sarcoma Surgery Dpt.	matraidoc@gmail.com	+36705501268

Radiology

Mária Gödény, MD, PhD	Head of Radiological Diagnostics Dpt.	godeny.maria@oncol.hu	+36122486001330
Eszter Kovács, MD	Head of Breast Diagnostics Dpt.	koveszt@yahoo.com	+36122486003550
Mária Bidlek, MD	Senior Radiologist	bidlek@oncol.hu	+36122486003410
Eszter Tóth, MD	Senior Radiologist		
István Fehér, MD	Senior Radiologist		
Mátyás Újlaki, MD	Radiologist		

Breast Surgery

Zoltán Mátrai, MD, PhD	Head of Breast and Sarcoma Surgery Dpt.	matraidoc@gmail.com	+3612270551268
Ákos Sávolt, MD, PhD	Deputy Head of Breast and Sarcoma Surgery Dpt.	drsavolt@hotmail.com	+36122486003444
Péter Kelemen, MD	Senior Breast Surgeon	dr.kelemenp@gmail.com	+36122486003628
Emil Farkas, MD	Senior Surgeon	femil@oncol.hu	+36122486003132
Tamás Mátrai, MD	Senior Surgeon	tamas.matrai@hotmail.com	+36122486003221
Mihály Újhelyi, MD, PhD	Senior Surgeon	ujmisi@gmail.com	+36122486003612
András Szollár, MD	Senior Surgeon	aszollar@gmail.com	+36122486003375

Reconstructive Surgery

Zoltán Mátrai, MD, PhD	Head of Breast and Sarcoma Surgery Dpt.	matraidoc@gmail.com	+36705501268
Péter Kelemen, MD	Senior Plastic Surgeon	dr.kelemenp@gmail.com	+36122486003628
Dávid Pukancsik, MD, PhD	Plastic Surgical Resident	d.pukancsik@gmail.com	+36122486003796
Ákos Sávolt, MD, PhD	Plastic Surgical Resident, Deputy Head of Breast and Sarcoma Surgery Dpt.	drsavolt@hotmail.com	+36122486003444
Mihály Újhelyi, MD, PhD	Senior Surgeon, Plastic Surgical Resident	ujmisi@gmail.com	+36122486003612

Pathology

János Szoke, MD, PhD	Head of Surgical and Molecular Tumour Pathology Centre	szoke.j@oncol.hu	+36122486003518
Nóra Udvarhelyi, MD	Senior Pathologist	udvarhelyinora@gmail.com	+36122486003516
Erika Tóth, MD, PhD	Senior Pathologist	erika66toth@gmail.com	+36122486003549
Mihály Bak, DSc, MD, PhD	Head of Diagnostic Onco-Cytogenetics Dpt.	bak@oncol.hu	+36122486001380
Ferenc Schneider, MD, PhD	Senior Cytologist	f.schneider@oncol.hu	+36122486001377
Gabriella Ivády, MD	Senior Cyto-Pathologist	ivadygabi@oncol.hu	+36122486003437
Zsuzsa Sándor, MD	Senior Pathologist	sandor.zsuzsa@oncol.hu	+36122486003638

Medical Oncology

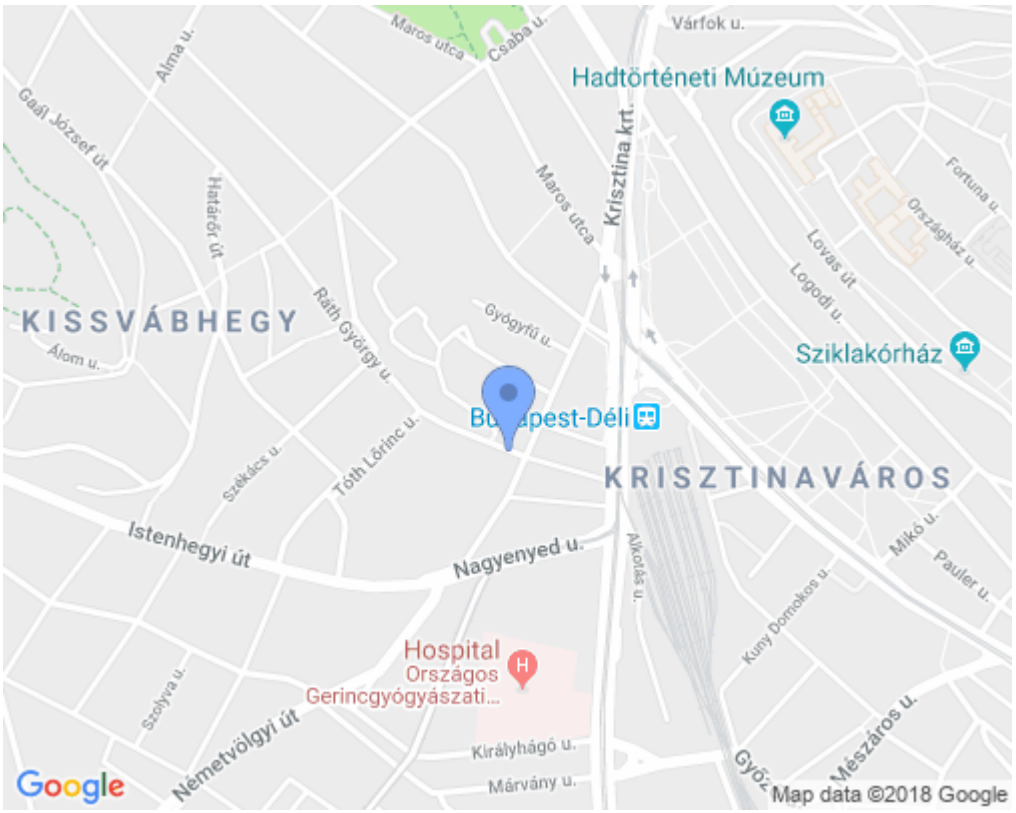
István Láng, DSc, MD, PhD	Former Head of Medical Oncology and Clinical	lang@oncol.hu	+36122486001429

	Pharmacology „B” Dpt.		
Lajos Géczi, MD, PhD	Head of Oncological Internal Medicine and Clinical Pharmacology Center	gelajos@oncol.hu	+36122486003162
Gábor Rubovszky, MD, PhD	Head of Medical Oncology and Clinical Pharmacology 'B' Dpt.	garub@oncol.hu	+36122486003442
Erika Hitre, MD, PhD	Deputy Head of Medical Oncology and Clinical Pharmacology 'B' Dpt.	hitre@oncol.hu	+36122486003209
Éva Juhos, MD	Senior Oncologist	juhos@oncol.hu	+36122486003189
Balázs Madaras, MD	Senior Oncologist	madarasb@oncol.hu	+36122486003352
Eszter Szabó, MD	Senior Oncologist		+36122486003257
Erna Ganofszky, MD	Senior Oncologist	gerna@oncol.hu	+36122486003154
Tamas Pintér, MD	Staff Oncologist	pinter.tamas@oncol.hu	+36122486003207

Radiotherapy

Csaba Polgár, DSc, MD, PhD	Head of Radiotherapy Center	polgar@oncol.hu	+36122486003205
Zoltán Takácsi-Nagy, MD, PhD	Section Head at Radiotherapy Center	takacsi@oncol.hu	+36122486003204
Szilvia Varga, MD	Section Head at Radiotherapy Center	vargas@oncol.hu	+36122486003663
Zoltán Zaka, MD	Section Head at Radiotherapy Center	zaka@oncol.hu	+36122486003203
Norbert Mészáros, MD	Senior Radiotherapist		

How to reach us



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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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