



# BREAST CENTRES NETWORK

Synergy among Breast Units

★ University of Szeged - Dept. of Oncotherapy - Szeged, Hungary

## General Information



**New breast cancer cases treated per year** 350

**Breast multidisciplinary team members** 19

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

Our Breast Unit was founded in 1999 based on the integration of teams of different departments that managed breast diseases. The Unit performs more than 250 breast cancer surgeries per year applying isotope-guided (ROLL) or rarely wire-guided excision of non-palpable tumours, sentinel lymph node biopsy with isotope and blue dye labelling, primary or delayed prosthesis implantation with the co-operation of a trained plastic surgeon. Medical treatments and radiotherapy are performed according to local protocols based on international guidelines or alternatively, in clinical studies. Different research fields are active, both as a multidisciplinary programs, and at the specific institutes. Graduate and post-graduate educational programs are ongoing. The biennial Szeged Breast Cancer Symposium is organized by the Breast Center. International and national cooperations are active in all fields. Recently a molecular genetics team has set off, and multigene assays are used for treatment of advanced/metastatic breast cancer after the multidisciplinary discussion of the case. More and more, individualized treatments are applied in all settings.

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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** 2
- Mammograms per year** 6000
- 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)
- PET/CT

**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)** 350
- Dedicated Breast Surgeons** 3
- Surgeons with more than 50 surgeries per year** 3
- Breast Surgery beds** 6
- Breast Nurse specialists** 5
- 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** 1
- 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
- esthetic surgery

## Pathology

- Dedicated Breast Pathologists** 3

### 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)
- topo-2-alpha IHC

### 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
- topo-2-alpha IHC status, multifocality, growth pattern, tumor extension, presence of DCIS

## Medical Oncology

- Dedicated Breast Medical Oncologists** 3
- 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)

prone radiotherapy, IGRT, IMRT

## 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

Nuclear Medicine Specialist

## 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

Clinical geneticist at the Dept Medical Genetics

Genetic Testing available

Surveillance program for high-risk women

**Data Management**

Database used for clinical information

Data manager available



## Contact details

## Radiology

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## Breast Surgery

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## Reconstructive Surgery

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## Radiotherapy

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## How to reach us



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#### From airport:

Szeged may be directly reached from Ferihegy Airport via E75, M5 by car. Another option is to take the train at the Railway Station Ferihegy Airports I.

#### By train:

Szeged from Budapest, may be reached by train from Nyugati Station in Budapest or from Ferihegy Airport. Trains depart every hour, and it takes h.2.30 to reach Szeged.

#### By bus or sub-way/underground:

Buses from Budapest to Szeged, depart from the Central Bus Station in Budapest.

#### By car:

Szeged may be reached by car via E75, M5 in h.1.30.

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