



# BREAST CENTRES NETWORK

Synergy among Breast Units

## ★ Gülhane Training and Research Hospital - Ankara, Turkey

### General Information



**New breast cancer cases treated per year** 280

**Breast multidisciplinary team members** 15

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

**Clinical Director:** Mehmet Ali Gülçelik, MD

Gülhane Hospital is one of our country's biggest Training and Research Hospitals (1500 beds), built in 1898. It serves as a part of Gülhane Medical School in the University of Health Sciences. It is located in Ankara, the capital city of Turkey. The Breast Clinic and its related Surgical Oncology Department have 2 outpatient polyclinic services and 12000 patients are examined per year; almost half of which are related to breast diseases. Approximately 300 breast cancer surgeries and 100 other breast surgeries per year are performed. Gülhane Training and Research Hospital is the preferred center for conservative oncoplastic surgery in our country. On the other hand, oncoplastic techniques are applied to appropriate patients by experienced surgeons in this field. Among the important developments in the field of surgical oncology including oncoplastic breast surgery at recent years, are routine practice in our clinic. Seminars, courses and multidisciplinary including but not limited to general surgeons national /international certificate programs related to oncoplastic breast surgery are organized each year.

### **Gülhane Training and Research Hospital**

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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** 1
- Mammograms per year** 4500
- 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)** 400
- Dedicated Breast Surgeons** 6
- Surgeons with more than 50 surgeries per year** 3
- Breast Surgery beds** 14
- Breast Nurse specialists** 4
- 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** \_\_\_\_\_ 2
- 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

**Pathology**

- Dedicated Breast Pathologists** \_\_\_\_\_ 1

**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** \_\_\_\_\_ 2
- 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

Nuclear Medicine

## Further Services and Facilities

**Nuclear Medicine**

Lymphoscintigraphy

Bone scan

Positron Emission Tomography (PET)

PET/CT scan

Scintimammography

**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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## Breast Surgery

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## Reconstructive Surgery

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## Pathology

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## Medical Oncology

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## Radiotherapy

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## How to reach us



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#### **From airport:**

The nearest airport: Esenboga Airport.

#### **By train:**

Direct line is not present.

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

BELKO company passes through Kizilay where public transportation such as bus or minibus can be used to reach to the Gülhane Training and Research Hospital. A public bus company stops very close to our hospital (it takes about 40 minutes).

#### **By car:**

By taxi: 27.7 km from the Esenboga Airport. Via Özal Bulvari is the fastest route, 28 min (27.7 km) with the usual traffic. (Get on Özal Bulvari/D180 in Saracalar Mahallesi and then Continue on Özal Bulvari. Take D140 and Irfan Bastug Cd. to Gen. Dr. Tevfik Saglam Cd in Ankara.)

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