General Information

| New breast cancer cases treated per year | 250 |
| Breast multidisciplinarity team members | 14 |
| Radiologists, surgeons, pathologists, medical oncologists, radiotherapists and nurses |
| Clinical Director: Hasan Karanlik, MD |

The Unit of Surgical Oncology of Istanbul University Institute of Oncology was founded in 1989. Annually, an average of 5000 new patients applies at our institute, and 60,000 patients are called for follow-up and checks. An average of 350 patients plus 90 out-patients undergo radiotherapy every day. The institute has 53 beds: 21 beds on the second floor, 19 beds for adult patients on the third floor and 13 beds at the Child Service. The surgical oncology unit accelerated its activity in the area of breast cancer treatment from the end of 2007. From the beginning, the main goal has been to concentrate clinical research and treatment of breast cancer. Breast conserving surgery is the main aim in the treatment of our patients and the breast can be preserved in the majority of cases. The Breast Unit has many collaborations with other divisions of the institute at laboratory and clinical level and multidisciplinary aproach can be achieved. Our surgical unit has two operating rooms which are fully equipped and about 8-12 newly diagnosed breast cancer patients can be operated weekly.

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### Available services

- **Radiology**
  - Dedicated Radiologists
  - Mammograms per year
  - Breast radiographers
  - 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
  - Bone scintigraphy

- **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)** 260
- **Dedicated Breast Surgeons**
- **Surgeons with more than 50 surgeries per year**
- **Breast Surgery beds**
- **Breast Nurse specialists**
- **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**
- **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**

#### 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
- Ki-67, opinion about response to neoadjuvant therapy

### Medical Oncology

- **Dedicated Breast Medical Oncologists**
- **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

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
<table>
<thead>
<tr>
<th>Role</th>
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<tbody>
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From airport:
15 km away from Istanbul International Ataturk Airport.

By train:
6 km away from Istanbul Sirkeci Train Station.

By bus or sub-way/underground:
There is a convenient tram stop named Istanbul Tip Fakultesi in front of the institute. Many busses are available to reach the institute.

By car:
The Institute is located in the campus of Istanbul Medical Faculty. It is located in the centre of the city.

Last modified: 17 May 2016