



BREAST CENTRES NETWORK

Synergy among Breast Units

★ Istanbul University, Institute of Oncology, Surgical Oncology Unit - Capa, Istanbul, Turkey

General Information



New breast cancer cases treated per year **250**

Breast multidisciplinary 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 approach 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
- 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** 4
- Mammograms per year** 3500
- 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
- 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** 2
- Surgeons with more than 50 surgeries per year** 1
- Breast Surgery beds** 6
- 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

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

Pathology

- Dedicated Breast Pathologists** 2

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** 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)

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

Contact details

Clinical Director

Hasan Karanlik, MD	Breast Surgeon	karanlik@istanbul.edu.tr	+905324025354
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Radiology

Memduh Dursun	Assoc Prof of Radiology		
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Nuri Tenekeci	Professor of Radiology		
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Mehtap Tunaci	Professor of Radiology		
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Gulgun Engin, MD	Professor of Radiology	gengin@istanbul.edu.tr	
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Breast Surgery

Aysel Turan	Specialist Breast Nurse		
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Yasemin Isbilir	Specialist Breast Nurse		
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Reconstructive Surgery

Sidika Kurul, MD	Professor of Plastic Surgery	skurul@istanbul.edu.tr	+902124142434
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Pathology

Ekrem Yavuz	Professor of Pathology		
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Ridvan Ilhan	Professor of Pathology		
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Sitki Tuzlali	Professor of Pathology		
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Medical Oncology

Pinar Saip	Professor of Medical Oncology	pinarsaip@gmail.com	
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Yesim Eralp	Professor of Medical Oncology	yeralp@istanbul.edu.tr	
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Adnan Aydiner	Professor of Medical Oncology		
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Radiotherapy

Seden Kucucuk	Specialist of Radiation Oncology		
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Isik Aslay	Professor of Radiation Oncology		
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Merdan Fayda	Specialist of Radiation Oncology		
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Murat Guveli	Specialist of Radiation Oncology		
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How to reach us



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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 Tıp Fakültesi 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.

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