

# **BREAST CENTRES NETWORK**

Synergy among Breast Units

# Bulent Ecevit University The School of Medicine - Zonguldak, Turkey

# **General Information**



 New breast cancer cases treated per year
 201

 Breast multidisciplinarity team members
 7

 Radiologists, surgeons, pathologists, medical oncologists, radiotherapists and nurses
 7

 Clinical Director: Guldeniz Karadeniz Cakmak, MD
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Bulent Ecevit University Hospital multidisciplinary breast group was established in 2008. Our mission is to provide optimal breast care with the highest quality of experience. A highly dedicated team of surgeons, pathologists, radiologists, medical and radiation oncologists, and nuclear medicine specialists weekly meets to discuss cases. Treatment algorithm for each case is established in a comprehensive multidisciplinary manner according to board consensus statements. The patient centered care design aims to provide individualized management on case-by-case basis. The breast team works in the field of prevention, screening, diagnosis, treatment, and follow-up. The Breast Unit provides care for all stages of breast cancer, including conservative and oncoplastic surgery (with intraoperative continuous ultrasound guidence), sentinel node procedure (with dual-agent), partial and whole breast irradiation, and neoadjuvant and adjuvant systemic therapy. Additionally, postgraduate education for residents and medical students with educational meetings is hosted.

# **Bulent Ecevit University The School of Medicine**

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# Available services

Vuclear Medicine Social Workers Radiology Rehabilitation Mutritional Counselling Breast Surgery Reconstructive/Plastic Surgery Genetic Counselling Survivorship Groups Z Data Management Sexual Health Counselling **Pathology** Psycho-oncology Supportive and Palliative Care Medical Oncology **Radiotherapy** Breast Nurses Manual Integrative Medicine Radiology **V** Dedicated Radiologists 1 Available imaging equipment Available breast tissue sampling equipment Mammograms per year 1500 Mammography Breast radiographers Stereotactic Biopsy (Mammography VItrasound Screening program quided) Core Biopsy (Tru-cut) Magnetic Resonance Imaging (MRI) Verification for non-palpable breast lesions Vacuum assisted biopsy Available work-up imaging on specimen equipment 🗹 Ultrasound-guided biopsy Axillary US/US-guided Fine-needle aspiration biopsy Computer Tomography **FNAB** (FNAB, cytology) **VItrasound** Clinical Research Core Biopsy Magnetic Resonance Imaging (MRI) Vacuum assisted biopsy V PET/CT scan MRI-guided biopsy Primary technique for localizing Core Biopsy non-palpable lesions Vacuum assisted biopsy Hook-wire (or needle localization) Charcoal marking/tattooing ROLL: radio-guided occult lesion localization

# **Breast Surgery**

New operated cases per year (benign and malignant) 235
 Dedicated Breast Surgeons 2
 Surgeons with more than 50 surgeries per year 2
 Breast Surgery beds 10
 Breast Nurse specialists 1
 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
- V Blue dye + Radio-tracer
- Axillary sampling

# Reconstructive/Plastic Surgery Reconstructive/Plastic surgeons Immediate Reconstruction 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	Other special studies available
Available studies	🗹 Fluorescence in-situ Hybridization for HER-2 gene (FISH)
🗹 Cytology	Oncotype Dx (21-gene assay)
🗹 Haematoxylin & eosin section (H&E)	MammaPrint (70-gene microarray)
Surgical specimen	$\Box$ Prediction Analysis of Microarray 50-gene set (PAM 50)
Sentinel node	🗹 ICG detection, Spy
V Core biopsy	Parameters included in the final pathology report
<ul><li>✓ Frozen section (FS)</li><li>✓ Surgical specimen</li></ul>	Pathology stage (pT and pN)
Sentinel node	🗹 Tumour size (invasive component in mm)
Munohistochemistry stain (IHC)	🗹 Histologic type
Strongen receptors	🗹 Tumor grade
Progesterone receptors	ER/PR receptor status
Mer-2	MER-2/neu receptor status
🗹 Ki-67	🗹 Peritumoural/Lymphovascular invasion
	🗹 Margin status
	V Lymphovascular invasion

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# **Medical Oncology**

- V 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	Specialties/services participating in MDM/TB
Twice a week	Radiology
🗹 Weekly	🗹 Breast Surgery
Every two weeks	Reconstructive/Plastic Surgery
Other Schedule	Z Pathology
Cases discussed at MDM/TB  Preoperative cases	Medical Oncology
	🗹 Radiotherapy
	Genetic Counselling
M Postoperative cases	🗹 Breast Nurse Service
	Psycho-oncology

# **Further Services and Facilities**

## **Nuclear Medicine**

~	Lymphoscintigraphy
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- 🗹 Bone scan
- Positron Emission Tomography (PET)
- V PET/CT scan

## Rehabilitation

- V Prosthesis service
- V Physiotherapy
- V Lymph-oedema treatment

# **Genetic Counselling**

Specialist Providing Genetic Counselling/Risk assessment service:

- Dedicated Clinical Geneticist
- Medical Oncologist
- Breast Surgeon
- General Surgeon
- Gynaecologist

Clinical Geneticist of the University Hospital

- Senetic Testing available
- Surveillance program for high-risk women

# Data Management

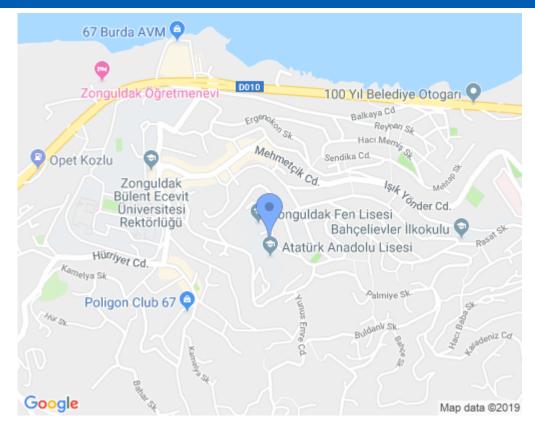
☑ Database used for clinical information

🗹 Data manager available

# Bulent Ecevit University The School of Medicine

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# How to reach us



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area for patients and visitors.

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