



# BREAST CENTRES NETWORK

Synergy among Breast Units

## ★ Shaare Zedek Medical Centre - Jerusalem, Israel

### General Information



**New breast cancer cases treated per year** 400

**Breast multidisciplinary team members** 13

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

Shaare Zedek Medical Centre provides comprehensive and holistic care encompassing all the needs of patients with breast cancer with units and departments that are leaders in excellence and state-of-the-art care in the fields of breast imaging and diagnostics, all aspects of breast surgery, fertility preservation, onco-genetics, high risk-screening clinics and a comprehensive breast oncology program. The breast cancer care includes dedicated breast nurses, who accompany patients at all stages of care, as well as psychosocial services. The breast oncology unit includes a young women's breast cancer program - the only service of its kind in Israel that caters for the unique needs of young women with breast cancer, that includes a personalized patient-navigator service. There are a broad range of research programs at the centre - ranging from genetic research in the field of hereditary breast cancer through to clinical trials evaluating new therapies for breast cancer patients and research in psychosocial care. The centre provides care & research from screening and diagnosis through to survivorship and supportive and palliative care for all stages of disease and recovery.

### Shaare Zedek Medical Centre

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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** 3
- ☒ **Mammograms per year** 10000
- ☒ **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)** 566
- ☒ **Dedicated Breast Surgeons** 3
- ☒ **Surgeons with more than 50 surgeries per year** 3
- ☒ **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
  - ☒ Blue dye + Radio-tracer
- ☐ Axillary sampling

## Reconstructive/Plastic Surgery

- ✓ **Reconstructive/Plastic surgeons** 3
- ✓ **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)
- ✓ MSI

### 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** 4
- ✓ **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)

☒ WBRT (currently available off-site, will be available onsite Q4 2019)

## 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

## Radiology

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## Breast Surgery

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## Reconstructive Surgery

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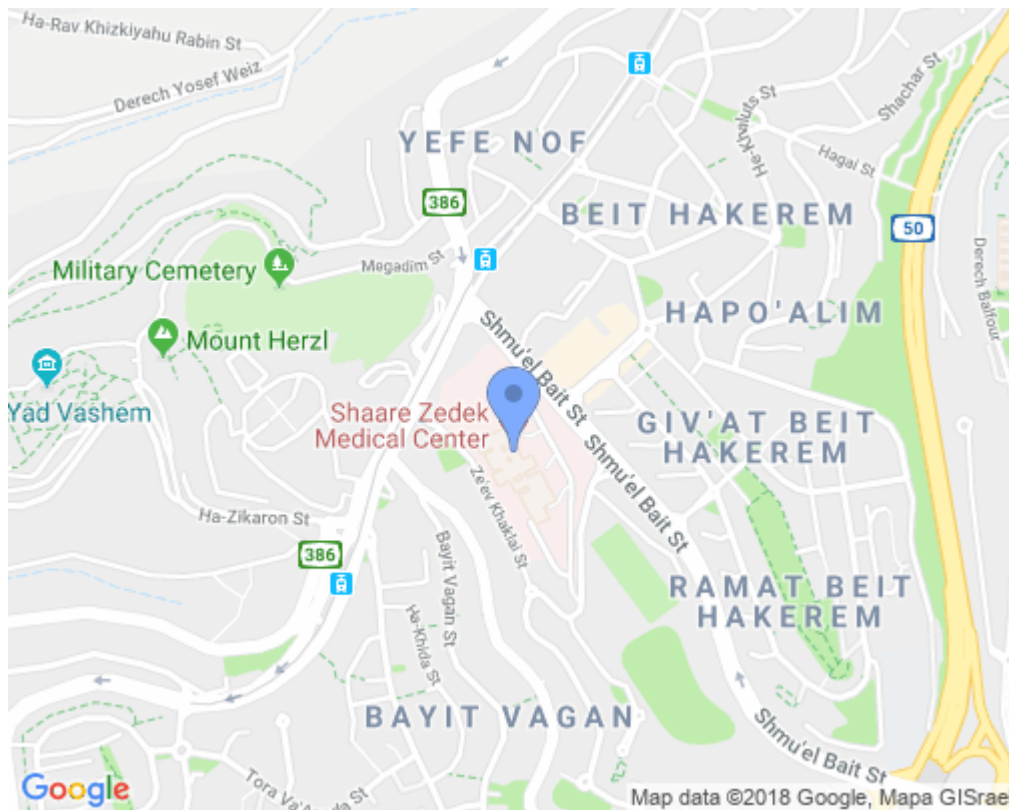
## Radiotherapy

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## How to reach us



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#### **From airport:**

Transfer to Jerusalem by car, bus or taxi

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