

# **BREAST CENTRES NETWORK**

Synergy among Breast Units

# 😫 Aga Khan University - Karachi, Sindh, Pakistan

**General Information** 



New breast cancer cases treated per year 250

Breast multidisciplinarity team members 19 Radiologists, surgeons, pathologists, medical oncologists, radiotherapists and nurses

Clinical Director: Shaista Khan, FRCS, MBBS

Our Breast Unit is a section in the Department of Surgery at Aga Khan University, a private University with campuses in Africa, Pakistan, UK and Central Asia. The University offers Undergraduate as well as Post Graduate Training programs in Medicine, Nursing, Allied Health, Health Mangament and Education. The services have been in place since 1988, with facilities to perform screening and comprehensive management of symptomatic disease. A complete database has been in place helping to maintain a Hospital Based Cancer registry. It is indeed considered to be a referral centre at National level. The University is paving its way to establish a Centre of Excellence in Oncology. One of the faculty has been awarded a National accolade in recognition of the services provided, whilst another member is currently completeing a Full Time PhD in Breast Cancer from Aga Khan University.

## Aga Khan University

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### Aga Khan University

#### Available services Radiology Vuclear Medicine Social Workers Rehabilitation Mutritional Counselling Breast Surgery Reconstructive/Plastic Surgery Genetic Counselling Survivorship Groups Z Data Management **Pathology** Sexual Health Counselling Supportive and Palliative Care Medical Oncology Psycho-oncology Mareast Nurses **Radiotherapy** Integrative Medicine Radiology **V** Dedicated Radiologists 4 Available imaging equipment Available breast tissue sampling equipment Mammograms per year 3000 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) **V**Itrasound 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)	650
Z Dedicated Breast Surgeons	4
Surgeons with more than 50 surgeries per year	3
☑ Breast Surgery beds	20
🗹 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
- V Blue dye + Radio-tracer
- Axillary sampling

econstructive/Plastic Surgery		
Reconstructive/Plastic surgeons	2	Type of breast reconstructive surgery available
Immediate Reconstruction available		Remodelling after breast-conserving surgery
		Reconstruction after mastectomy:
		$\mathbf{M}$ Two-stage reconstruction (tissue expander followed by implant)
		One-stage reconstruction
		Autogenous tissue flap
		🗹 Latissimus dorsi flap
		Iransverse rectus abdominis (TRAM)
		🗹 Free-flaps (free TRAM, DIEP, SIEA, gluteal, etc.)
		$\checkmark$ Surgery on the contralateral breast for symmetry

## Pathology

Dedicated Breast Pathologists	2	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 ✓ Core biopsy		Parameters included in the final pathology report
Frozen section (FS)		🗹 Pathology stage (pT and pN)
Surgical specimen		🗹 Tumour size (invasive component in mm)
Sentinel node		🗹 Histologic type
Munohistochemistry stain (IHC)		🗹 Tumor grade
Stan (Inc)		🗹 ER/PR receptor status
Progesterone receptors		MER-2/neu receptor status
V HER-2		🗹 Peritumoural/Lymphovascular invasion
✓ Ki-67		Margin status

## Medical Oncology

V Dedicated Breast Medical Oncologists	6
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	Z Radiology
🗹 Weekly	🗹 Breast Surgery
Every two weeks	Reconstructive/Plastic Surgery
Other Schedule	V Pathology
Cases discussed at MDM/TB	Medical Oncology
	🗹 Radiotherapy
Preoperative cases	Genetic Counselling
M Postoperative cases	Sreast Nurse Service
	Psycho-oncology

### **Further Services and Facilities**

### **Nuclear Medicine**

$\checkmark$	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
- Genetic Testing available
- Surveillance program for high-risk women

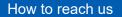
### **Data Management**

- ☑ Database used for clinical information
- 🗹 Data manager available

## Aga Khan University

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