



BREAST CENTRES NETWORK

Synergy among Breast Units

Khartoum Teaching Hospital - Khartoum, Sudan

General Information



New breast cancer cases treated per year 200

Breast multidisciplinary team members 9

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

Clinical Director: Ayda Mustafa, MD

Khartoum Teaching Hospital Breast Clinic was founded in 2005. At that time, Mrs Ayda H. Mustafa came back from Greece where she got her subspecialty in breast surgery, and started to see breast patients at a separate clinic and to collect data in special forms. A radiologist, Dr Wishah Alamin, joined the breast clinic in 2008 together with a pathologist, Dr Ammar Hassan Hussain. A great role has been played by Hind Mohammed Nor, a computer technician, who designed a software for the data collection. Dr Nahala Gafer, palliative care oncologist, and Dr Ahmed Hag Kheiri, plastic surgeon, joined the breast clinic in 2010. Till that time the team used to meet at Khartoum Teaching Hospital but then moved to Burg Alamel at the Radio-isotope Centre where Dr. Ahmed Omer Khalid, Dr. Alradia, medical oncologists, and Dr Sediag, radiologist and nuclear physician, joined. Since 2005 the team has examined 3000 patients and only 700 came to be malignant. We perform all modalities of breast surgery and rehabilitation is available for patients complicated by lymph-ede. Nadia Eldawin and Nazik Elmalaik Social workers help solving social problems as they try to convince patients who refuse treatment.

Khartoum Teaching Hospital

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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** 1
- Mammograms per year** 1300
- 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)
- ultrasound giuded biopsy,ultrasound giuded true cut needle

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)** 150
- Dedicated Breast Surgeons** 1
- Surgeons with more than 50 surgeries per year** 1
- Breast Surgery beds** 3
- 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
- we do blue dye technique when the patients present at an early stage and the lymph nodes does not inv
- Axillary sampling

Reconstructive/Plastic Surgery

- Reconstructive/Plastic surgeons** 2
- 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
- reduction mammoplasty

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
- paget disease of the nipple

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)

palliative radiotherapy for bone metastasis

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

clinical pharmacy, genetic counselling if needed

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

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Radiology

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Breast Surgery

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Reconstructive Surgery

Ahmed Hag Kheiri, MD	Assistant Professor	hagkheiri@hotmail.com	+249912838789
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Mawia Sofian, MD	Consultant Surgeon		
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Pathology

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Medical Oncology

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Radiotherapy

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Nahla Gafer, MD	Consultant Radio-oncologist		
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From airport:

From Khartoum airport, you can reach Burg Alamel in about 10 minutes by car.

Last modified: 16 September 2016