



# BREAST CENTRES NETWORK

Synergy among Breast Units

## Muhimbili National Hospital - Dar Es Salaam, Tanzania, United Republic of

### General Information



**New breast cancer cases treated per year** 170

**Breast multidisciplinary team members** 22

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

**Clinical Director:** Caspar Haule, MD

Our breast unit has about three dedicated surgeons and nurses. It is the only centre in our country which offers comprehensive treatment such as diagnosis, surgery, pathological services and chemotherapy treatment before and after surgery and radiological services. We run an outpatient clinic twice a week where patients are evaluated and investigated before surgery and receive postoperative follow-up. We do core biopsy needle almost every day. We operate three times a week.

### **Muhimbili National 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** 2
- Mammograms per year** 375
- 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)** 190
- Dedicated Breast Surgeons** 3
- Surgeons with more than 50 surgeries per year** 1
- Breast Surgery beds** 30
- Breast Nurse specialists** 6
- 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** 4

**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

**Medical Oncology**

- 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

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

Caspar Haule, MD	General Surgeon/Head of Breast Unit	<a href="mailto:casparhaulemd@gmail.com">casparhaulemd@gmail.com</a>	+255712689371
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## Radiology

Musa Balowa, MD	Lecturer	<a href="mailto:balowamusa@gmail.com">balowamusa@gmail.com</a>	+2556256630445
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## Breast Surgery

Charles Komba, MD	General Surgeon	<a href="mailto:kombacharlesones@gmail.com">kombacharlesones@gmail.com</a>	+255714236066
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## Reconstructive Surgery

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## Pathology

Asafu Munema, MD	Pathologist	<a href="mailto:asafumunema@gmail.com">asafumunema@gmail.com</a>	+255716613188
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## Medical Oncology

Alfred Mayani, MD	Oncologist	<a href="mailto:alfrema09@gmail.com">alfrema09@gmail.com</a>	+255715623637
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## Radiotherapy

Yemela Ndibalema, MD	Radiation Oncologist	<a href="mailto:yeme.ndiba@yahoo.co.uk">yeme.ndiba@yahoo.co.uk</a>	+255684953388
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How to reach us



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**From airport:**

You can take a taxi from the airport that will take you through Mwalimu Nyerere Road and then to the United Nations up to Kalenga Street, where our hospital is based. It is about 50 km from the airport.

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