



# BREAST CENTRES NETWORK

Synergy among Breast Units

## ★ Milton Keynes Hospital - Milton Keynes, United Kingdom

### General Information



**New breast cancer cases treated per year** **250**

**Breast multidisciplinary team members** **12**

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

**Clinical Director:** **Kian Chin, FRCS, MBChB**

Milton Keynes Breast Unit (MKBU) serves a population of 270,000. We receive referrals from local General Practitioners as well as Physicians from nearby units via the National Health Service or Private route. All referrals are seen within 2 weeks in a Near One-Stop clinic set up. We treat over 250 cancers per year and majority of our patients undergo short stay or 23 hr Surgery programme. This Unit consists of staff working very closely together creating a truly well integrated Multi Disciplinary Team. The Breast Cancer Screening Programme is well established and consistently receives excellent report from National / Regional Quality Assurance Team Review.

### **Milton Keynes 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** 3
- Mammograms per year** 33000
- 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)** 420
- Dedicated Breast Surgeons** 2
- Surgeons with more than 50 surgeries per year** 2
- Breast Surgery beds** 12
- Breast Nurse specialists** 4
- 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** 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

## 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)

### 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** 1
- 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

All off site

### 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

Geneticist is off site

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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**Reconstructive Surgery**

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**Pathology**

Cissy Lwin

**Medical Oncology**

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**Radiotherapy**

Jill Stewart

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**By train:**

Go to Euston Station in London and take the train to Milton Keynes Central.

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