



# BREAST CENTRES NETWORK

Synergy among Breast Units

## ★ Institute of Breast Disease FUCAM A.C. - México City, Mexico

### General Information



**New breast cancer cases treated per year** 1500

**Breast multidisciplinary team members** 61

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

**Clinical Director:** Carlos Alberto Domínguez, MD

FUCAM A.C. is a non-profit civil association aimed at providing breast cancer treatment mainly to the most vulnerable sectors of the country. FUCAM is a functional unit, which has all the necessary medical services for the care of patients with breast cancer. It has a well-structured screening system that allows timely reference and attention to all suspected cases and material resources of the latest generation. It serves approximately 7% of Mexican breast cancer population, with an annual average of 1500 new cases of breast cancer, with only 60 doctors and 60 nurses. All the Personnel of the Medical Area have the corresponding Medical Certification, and some of them have academic degrees such as Master's, Doctorate or Academy Membership, others are International Society Partners such as SSO or ASCO. Through an effective program, the training of base personnel and fellows is continuous. We have two postgraduate academic programs endorsed by the National Autonomous University of Mexico (UNAM), and a Social Service Program for medicine and nursing. In the field of research, FUCAM has various research projects, some of them under agreements with highly prestigious organizations.

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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** 11
- ✓ **Mammograms per year** 65000
- ✓ **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)
- ✓ Tomosynthesis, contrast mammography. MRI and PET CT (by agreement) and thermography (experimental)

Available work-up imaging equipment

- ✓ Computer Tomography
- ✓ Ultrasound
- ✓ Magnetic Resonance Imaging (MRI)
- ✓ PET/CT scan
- ✓ General radiology. MRI and PET CT (by agreement).

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)** 1500
- ✓ **Dedicated Breast Surgeons** 16
- ✓ **Surgeons with more than 50 surgeries per year** 16
- ✓ **Breast Surgery beds** 9
- ✓ **Breast Nurse specialists** 22
- ✓ **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** 5

**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
- TIL 's,

**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)

No MDM/TB for case management discussion.

## Further Services and Facilities

### Nuclear Medicine

Lymphoscintigraphy

Bone scan

Positron Emission Tomography (PET)

PET/CT scan

PET CT by agreement (next in to the Unit)

### 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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**From airport:**

By taxi directly.

**By train:**

There is no train service available.

**By bus or sub-way/underground:**

Enter the subway station Hangares, which is 200 meters from the airport, transfer to Pantitlan station, transfer to line 9, at the station Chabacano transfer to line 2, at Tasqueña station take the light train, get off at the station Vergel, walk following the signs to FUCAM.

**By car:**

The main nearby avenues of reference for any driver are: Avenida Periférico, Avenida División del Norte, Calzada de Tlalpan, Calzada del Hueso. The easiest way to get there is by Calzada de Tlalpan heading south, take the exit to the road from Calzada del Hueso, and then this one in the north direction where you find signs for Avenida Bordo where FUCAM is located.

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