



# BREAST CENTRES NETWORK

Synergy among Breast Units

## ★ Brustzentrum Frauenklinik - Universitaetsklinikum Duesseldorf - Duesseldorf, Germany

### General Information



**New breast cancer cases treated per year** **188**

**Breast multidisciplinary team members** **13**

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

**Clinical Director:** **Wolfgang Janni, MD**

The Interdisciplinary Breast Unit of The University of Düsseldorf is certified as a breast unit by the department of health of Nordrhein-Westfalia, as a EUSOMA breast unit and as breast unit of the Deutsche Krebsgesellschaft. We provide all specialized services concerning diseases of the breast, especially breast cancer, including the opportunity for a second opinion and all techniques of plastic and reconstructive surgery. As a university unit, we are dedicated to science, take part in national and international studies and implement new techniques and therapies as soon as reliable data are available. All cases of breast cancer are generally discussed in an interdisciplinary team and treatment options are based on the state of the art as well as on the individual features of the patients. The Interdisciplinary Breast unit is a member of the Consortium of hereditary breast cancer of Germany and provides counselling for patients with hereditary breast and ovarian cancer as a member in the ongoing project of the Deutsche Krebshilfe, covered by all German insurances.

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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** 4500
- 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)** 723
- Dedicated Breast Surgeons** 4
- Surgeons with more than 50 surgeries per year** 3
- Breast Surgery beds** 10
- Breast Nurse specialists** 3
- 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** 1
- 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** 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)
- PAI 1, uPA

### 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

Study nurse

## 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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**Breast Surgery**

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**Reconstructive Surgery**

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**Medical Oncology**

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**Radiotherapy**

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## How to reach us



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#### **From airport:**

Suburban train S7 to the main station, then tram 707 to Uni-Kliniken.

#### **By train:**

From the main station take the tram 707 to Uni-Kliniken.

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

Bus numbers 723, 780, 785, 827, 835, 836 or SB 50 to Uni-Kliniken.

#### **By car:**

From North: A 57 to Autobahn-Dreieck Neuss direction Neuss-Hafen / Düsseldorf to the end of the motorway, then follow signs to Uni-Klinik. From East: A 46 to Düsseldorf-Uni / Zentrum, after 1km turn left to Moorenstraße. From South: A 3 to Autobahn-Kreuz Hilden A 46 to Düsseldorf-Uni/ Zentrum, after 1km turn left to Moorenstraße. From West: A 52 to Autobahn-Kreuz Kaarst, A 57 to Autobahn-Dreieck Neuss, direction Neuss-Hafen to the end of the motorway, after 1.5km follow signs Uni-Klinik .

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