



# Breast Centres Network

Synergy among Breast Units

Breast Centres Network is a joint project of



## ★ Brustzentrum Universitaets Frauenklinik Tuebingen - Tuebingen, Germany

### General Information



**New breast cancer cases treated per year** **600**

**Breast multidisciplinary team members** **16**

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

**Clinical Director:** Diethelm Wallwiener, PhD

The Tübingen University Breast Cancer Center provides comprehensive multidisciplinary care to breast cancer patients. It is part of the Comprehensive Cancer Center of the University hospital of Tübingen. Our doctors work as a multidisciplinary team to provide optimal care. The core team includes breast surgeons, gynecologic oncologists, pathologists, reconstructive surgeons, radiation oncologists, and radiologists. The University Breast Cancer Center of Tübingen is certified by the „Deutschen Gesellschaft für Senologie und der Deutschen Krebsgesellschaft“ and is accredited by EUSOMA. Guideline oriented diagnostic workup and treatment according to the latest scientific knowledges, continuing quality controls and promotion of education and research are the main concepts of Tübingen University Breast Cancer Center. Important research areas are minimal invasive diagnostic procedures, oncoplastic reconstructive surgery and multiple projects in the field of minimal residual disease. Supportive services such as genetic counselling, gynecologic and endocrinological care, physical therapy, psychosocial support and exercise programs are provided.

### **Brustzentrum Universitaets Frauenklinik Tuebingen**

Calwerstrasse, 7

72076 Tuebingen, Germany

Phone: +4970712982246

Fax: +497071292202

E-mail: [brustzentrum@med.uni-tuebingen.de](mailto:brustzentrum@med.uni-tuebingen.de)

Web-site: [www.universitaetsfrauenklinik-tuebingen.de/bereiche/brustzentrum/home.html](http://www.universitaetsfrauenklinik-tuebingen.de/bereiche/brustzentrum/home.html)

## 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** \_\_\_\_\_ 12000
- 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
- bone szintigram

### 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)** 800
- Dedicated Breast Surgeons** \_\_\_\_\_ 6
- Surgeons with more than 50 surgeries per year** \_\_\_\_\_ 10
- Breast Surgery beds** \_\_\_\_\_ 71
- Breast Nurse specialists** \_\_\_\_\_ 2
- 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)

### 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
- ✓ Non-invasive component: Tumor size and Margins

## 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)

## 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

<b>Diethelm Wallwiener, PhD</b>	Clinical Director	<a href="mailto:diethelm.wallwiener@med.uni-tuebingen.de">diethelm.wallwiener@med.uni-tuebingen.de</a>	+4970712982246
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### Radiology

<b>Claus Claussen, PhD</b>	Head of Radiology Dpt.	<a href="mailto:claus.claussen@med.uni-tuebingen.de">claus.claussen@med.uni-tuebingen.de</a>
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### Breast Surgery

<b>Diethelm Wallwiener, MD, PhD</b>	Head of Gynecology and Obstetrics Dpt.	<a href="mailto:diethelm.wallwiener@med.uni-tuebingen.de">diethelm.wallwiener@med.uni-tuebingen.de</a>	+4970712982246
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### Reconstructive Surgery

<b>Diethelm Wallwiener, PhD</b>	Head of Gynecology and Obstetrics Dpt.	<a href="mailto:diethelm.wallwiener@med.uni-tuebingen.de">diethelm.wallwiener@med.uni-tuebingen.de</a>	+4970712982246
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### Pathology

<b>Falko Fend, PhD</b>	Head of Pathology Dpt.	<a href="mailto:falko.fend@med.uni-tuebingen.de">falko.fend@med.uni-tuebingen.de</a>	+4970712982266
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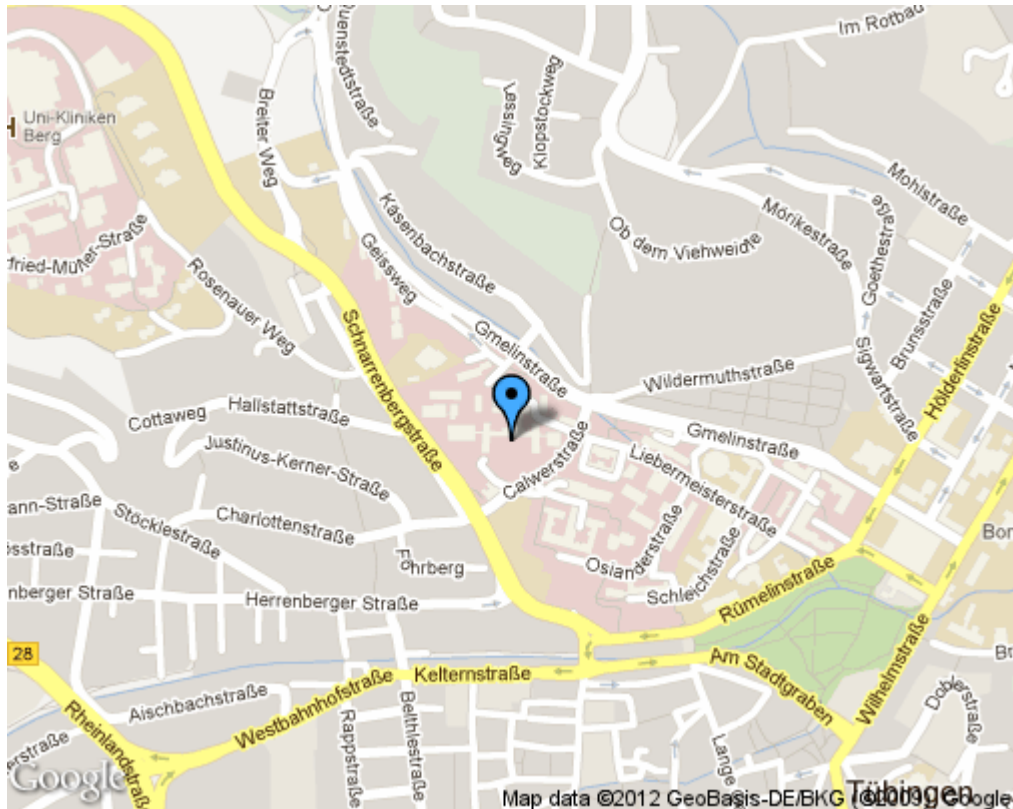
### Medical Oncology

<b>Lothar Kanz, PhD</b>	Head of Medical Oncology Dpt.	<a href="mailto:lothar.kanz@med.uni-tuebingen.de">lothar.kanz@med.uni-tuebingen.de</a>	+4970712982726
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### Radiotherapy

<b>Michael Bamberg, PhD</b>	Head of Radiotherapy Dpt.	<a href="mailto:michael.bamberg@med.uni-tuebingen.de">michael.bamberg@med.uni-tuebingen.de</a>	+4970712982165
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## How to reach us



### **Brustzentrum Universitaets Frauenklinik Tuebingen**

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72076 Tuebingen, Germany

Phone: +4970712982246

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#### **From airport:**

From Stuttgart airport take the highway B27 to Tübingen, exit at 'Innenstadtkliniken'.

#### **By train:**

From Stuttgart central station take the 'regional express' to Tübingen then take the bus line No. 5.

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

Take bus line No. 5, get off the bus at 'Innenstadtkliniken'.

#### **By car:**

Coming from Stuttgart on highway B27 exit at 'Innenstadtkliniken'.