



# BREAST CENTRES NETWORK

Synergy among Breast Units

## ★ University Medical Centre Groningen - Groningen, Netherlands

### General Information



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

**Breast multidisciplinary team members** 12

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

**Clinical Director:** Jakob de Vries, MD, PhD

The Breast Unit of University Medical Center Groningen has a central position in the Northern Netherlands and offers primary, secondary and tertiary care. New patients with breast problems are firstly seen by nurse practitioners for history and first physical exam. Imaging and needle biopsy (if necessary) are performed on the same day and results discussed by the team and communicated to the patient with a first treatment proposal. The team discusses all patients every week.

UMCG focuses on healthy aging in all priority areas: research, clinical care and education. The Institute of Healthy Aging focuses on the healthy aging-related research. This institute forms the shell in which healthy-aging activities are inserted, i.e. the cohort study LifeLines, the UMCG Center for Geriatric Medicine (UCO) and the future European Research Institute on Biology of Ageing (ERIBA).

### University Medical Centre Groningen

Hanzeplein 1

9713 GZ Groningen,

Phone: +31503612317

Fax: +31503611745

E-mail: [BreastUnitUMCG@drjdv.eu](mailto:BreastUnitUMCG@drjdv.eu)

Web-site: [borstkanker.umcg.nl](http://borstkanker.umcg.nl)

CERTIFICATION(S) ACCREDITATION(S)

**Roze Lintje**

Expiration date: 01 July 2019



Borstkanker Vereniging Nederland

This Centre has notified to be certified and, as such, been requested to upload the certification document for further information. When the certification document/s is/are provided, it is/they are made available hereafter.

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** 3000
- ✓ **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)
- ✓ 3D US, Tomosynthesis, Bio-optical Imaging

**Available work-up imaging equipment**

- ✓ Computer Tomography
- ✓ Ultrasound
- ✓ Magnetic Resonance Imaging (MRI)
- ✓ PET/CT scan
- ✓ Nuclear Medicine, HER2 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)** 217
- ✓ **Dedicated Breast Surgeons** 2
- ✓ **Surgeons with more than 50 surgeries per year** 2
- ✓ **Breast Surgery beds** 5
- ✓ **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** 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
- ✓ All Forms of Oncoplastic Surgery

## 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

## Medical Oncology

- ✓ **Dedicated Breast Medical Oncologists** 2
- ✓ **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) Simultaneous Integrated Boost**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 Nurse Specialists**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

Jakob de Vries, MD, PhD	Associate Professor	<a href="mailto:jakob.de.vries@umcg.nl">jakob.de.vries@umcg.nl</a>	+31503612317
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## Radiology

Theo Kok, MD, PhD	Staff Radiologist	<a href="mailto:t.kok@umcg.nl">t.kok@umcg.nl</a>	+31503613465
Monique Dorrius, MD, PhD	Staff Radiologist	<a href="mailto:m.d.dorrius@umcg.nl">m.d.dorrius@umcg.nl</a>	+31503616161
Sibylle van der Meulen, MD	Staff Radiologist	<a href="mailto:s.b.van.der.meulen@umcg.nl">s.b.van.der.meulen@umcg.nl</a>	+31503616161
Alain Viddeleer, MD	Staff radiologist	<a href="mailto:a.viddeleer@umcg.nl">a.viddeleer@umcg.nl</a>	+31503616161

## Breast Surgery

Jakob de Vries, MD, PhD	Staff Surgeon	<a href="mailto:jakob.de.vries@umcg.nl">jakob.de.vries@umcg.nl</a>	+31503612317
Liesbeth Jansen, MD, PhD	Staff Surgeon	<a href="mailto:l.jansen@umcg.nl">l.jansen@umcg.nl</a>	+31503612317
Ellen Ytsma-van Loo, MD	Fellow Surgical Oncologist	<a href="mailto:e.s.ytsma-van.loo@umcg.nl">e.s.ytsma-van.loo@umcg.nl</a>	+31503616161

## Reconstructive Surgery

Paul Werker, MD, PhD	Head of Reconstructive Surgery Dpt.	<a href="mailto:p.w.werker@umcg.nl">p.w.werker@umcg.nl</a>	+31503616161
Yassir Eltahir, MD	Staff Surgeon	<a href="mailto:y.eltahir@umcg.nl">y.eltahir@umcg.nl</a>	+31503616161
Antoinette van Minnen, RN	Nurse Specialist	<a href="mailto:a.k.van.minnen@umcg.nl">a.k.van.minnen@umcg.nl</a>	+31503616161
Vera van Aalst, MD	Staff Surgeon	<a href="mailto:v.c.van.aalst@umcg.nl">v.c.van.aalst@umcg.nl</a>	+313614779

## Pathology

Nils 't Hart, MD, PhD	Staff Pathologist	<a href="mailto:n.hart@umcg.nl">n.hart@umcg.nl</a>	+31503619524
Bert van der Vegt, MD, PhD	Staff Pathologist	<a href="mailto:b.van.der.vegt@umcg.nl">b.van.der.vegt@umcg.nl</a>	+31503615272

## Medical Oncology

Jeanine Nuver, MD, PhD	Staff Medical Oncologist	<a href="mailto:j.nuver@umcg.nl">j.nuver@umcg.nl</a>	+31503611193
Carolien Schröder, MD, PhD	Staff Medical Oncologist	<a href="mailto:c.p.schroder@umcg.nl">c.p.schroder@umcg.nl</a>	+31503613460

## Radiotherapy

John Maduro, MD, PhD	Staff Radiation Oncologist	<a href="mailto:j.maduro@umcg.nl">j.maduro@umcg.nl</a>	+31503619375
Anne Crijns, MD, PhD	Staff Member	<a href="mailto:a.p.g.crijns@umcg.nl">a.p.g.crijns@umcg.nl</a>	+31503610039
Marleen Woltman, MD	Staff Member	<a href="mailto:m.woltman@umcg.nl">m.woltman@umcg.nl</a>	+31503614733

How to reach us



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#### From airport:

The UMCG is located in the center of Groningen. It can be easily reached by car and by public transportation.

#### By train:

If you travel by public transportation, take city bus 7, 8 or P+R-bus 22 from the Central Station.

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

The district buses 40, 42, 65, 165, 174, 671 and 679 stop at the UMCG.

#### By car:

Follow the ANWB-signpostings to UMCG. These will lead you to the car park below UMCG reception hall.

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