



SenoNetwork
Synergy among Breast Units

SenoNetwork is a joint project of



★ University Medical Centre Groningen - Groningen, Netherlands

General Information



New breast cancer cases treated per year 172

Breast multidisciplinary team members 10

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

Clinical Director: Jakob de Vries

The Breast Unit of the 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 (http://www.umcg.nl/azg/nl/patienten/ziekte_onderzoek_behandeling/150264/150271/184168/?pathkey=48959/) discusses all patients every week. The UMCG focuses on healthy aging in all priority areas: research, clinical care and education. The healthy aging-related research is bundled in the Institute of Healthy Aging. This institute forms the shell in which the healthy aging activities are embedded, i.e. the cohort study LifeLines, the UMCG Center for Geriatric Medicine (UCO) and the future European Research Institute on the Biology of Ageing (ERIBA).

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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** _____ 1
- Mammograms per year** _____ 2500
- 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
- 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** 3
- ✓ **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** 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)

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

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Pathology

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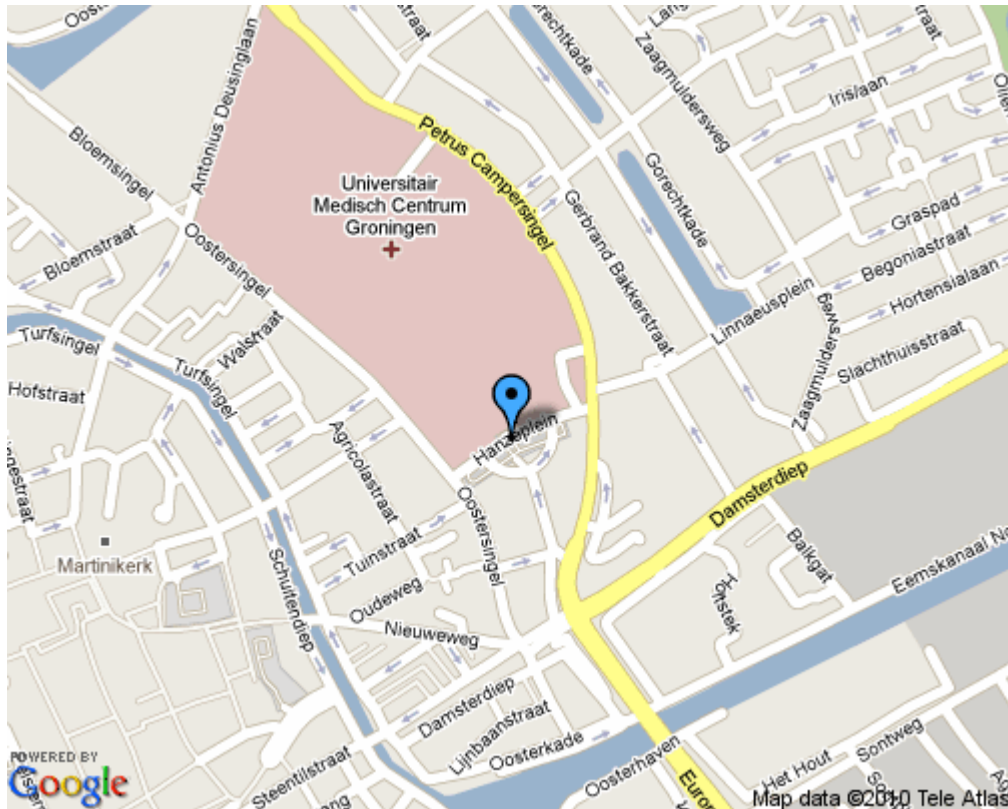
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How to reach us



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From airport:

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

By train:

If you travel by public transport, please 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 also halt at the UMCG.

By car:

If you travel by car, please follow the ANWB-sign posts to the UMCG. These will direct you to the car park below the reception hall of the UMCG.