The Netherlands Cancer Institute - Antoni van Leeuwenhoek Hospital - Amsterdam, Netherlands

General Information

New breast cancer cases treated per year 550

Breast multidisciplinarity team members 28

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

Clinical Director: **Hester Oldenburg**, MD, PhD

The Netherlands Cancer Institute / Antoni van Leeuwenhoek Hospital (NKI/AVL) is a Comprehensive Cancer Centre, combining hospital and research laboratories under one roof, in a single independent organization. The hospital offers 180 beds, a large radiotherapy department and outpatient clinics. Facilities for patient research include a large patient database, clinical data management and active research groups in epidemiology and psychosocial oncology.
The breast unit is part of the surgical department at the cancer institute.

The Netherlands Cancer Institute - Antoni van Leeuwenhoek Hospital

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Available services

- [x] Radiology
- [x] Breast Surgery
- [x] Reconstructive/Plastic Surgery
- [x] Pathology
- [x] Medical Oncology
- [x] Radiotherapy
- [x] Nuclear Medicine
- [x] Rehabilitation
- [x] Genetic Counselling
- [x] Data Management
- [x] Psycho-oncology
- [x] Breast Nurses
- [x] Social Workers
- [x] Nutritional Counselling
- [x] Survivorship Groups
- [x] Sexual Health Counselling
- [x] Supportive and Palliative Care
- [ ] Integrative Medicine

Radiology

- [x] **Dedicated Radiologists** 8
- [x] **Mammograms per year** 8000
- [x] **Breast radiographers**
- [ ] **Screening program**
- [x] **Verification for non-palpable breast lesions on specimen**
- [x] **Axillary US/US-guided FNAB**
- [x] **Clinical Research**

Available imaging equipment

- [x] Mammography
- [x] Ultrasound
- [x] Magnetic Resonance Imaging (MRI)
- [x] tomosyntheses

Available work-up imaging equipment

- [x] Computer Tomography
- [x] Ultrasound
- [x] Magnetic Resonance Imaging (MRI)
- [x] PET/CT scan
- [x] tomosyntheses

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

- [x] Stereotactic Biopsy (Mammography guided)
  - [x] Core Biopsy (Tru-cut)
  - [x] Vacuum assisted biopsy
- [x] Ultrasound-guided biopsy
  - [x] Fine-needle aspiration biopsy (FNAB, cytology)
  - [x] Core Biopsy
  - [x] Vacuum assisted biopsy
- [x] MRI-guided biopsy
  - [x] Core Biopsy
  - [x] Vacuum assisted biopsy

Breast Surgery

- [x] **New operated cases per year (benign and malignant)** 750
- [x] **Dedicated Breast Surgeons** 5
- [x] **Surgeons with more than 50 surgeries per year** 5
- [x] **Breast Surgery beds** 20
- [x] **Breast Nurse specialists** 5
- [x] **Outpatient surgery**
- [x] **Intra-operative evaluation of sentinel node**
- [ ] **Reconstruction performed by Breast Surgeons**
- [x] **Clinical Research**

Primary technique for staging the axilla

- [ ] Axillary lymph node dissection
- [x] Sentinel lymph node biopsy:
  - [ ] Blue dye technique
  - [ ] Radio-tracer technique
  - [x] Blue dye + Radio-tracer
- [ ] Axillary sampling
- [x] Sentinel node biopsy in primary surgery for cN0 and MARI procedure for cN1

Reconstructive/Plastic Surgery

- ☑ **Reconstructive/Plastic surgeons** 6
- ☑ **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** 4

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
- ☑ Ki-67, P-53, Androgen receptor

Medical Oncology

- ☑ **Dedicated Breast Medical Oncologists** 5
- ☑ **Outpatient systemic therapy**
- ☑ **Clinical Research**

Radiotherapy

- [x] Dedicated Radiation Oncologists
- [x] Clinical Research

Available techniques after breast-conserving surgery (including experimental)

- [x] Whole-Breast RT (WBRT)
- [x] Partial breast irradiation (PBI):
  - [x] External beam PBI
  - [ ] Interstitial brachytherapy
  - [ ] Targeted brachytherapy (MammoSite, SAVI applicator, other devices)
  - [ ] Intra-operative RT (IORT)
  - [x] breath hold incl. locoregional breath hold, IMRT, VMAT

Multidisciplinary Meeting (MDM) / Tumour Board (TB)

Regular MDM/TB for case management discussion

- [x] Twice a week
- [ ] Weekly
- [ ] Every two weeks
- [ ] Other Schedule

Cases discussed at MDM/TB

- [x] Preoperative cases
- [x] Postoperative cases

Specialties/services participating in MDM/TB

- [x] Radiology
- [x] Breast Surgery
- [x] Reconstructive/Plastic Surgery
- [x] Pathology
- [x] Medical Oncology
- [x] Radiotherapy
- [x] Genetic Counselling
- [x] Breast Nurse Service
- [ ] Psycho-oncology
- [x] research physicians, research nurses

Further Services and Facilities

Nuclear Medicine

- [x] Lymphoscintigraphy
- [x] Bone scan
- [x] Positron Emission Tomography (PET)
- [x] PET/CT scan
- [x] dedicated -mammai- PET, Spect CT scanning, Sentinella probes

Rehabilitation

- [x] Prosthesis service
- [x] Physiotherapy
- [x] Lymph-oedema treatment

Genetic Counselling

- [x] Specialist Providing Genetic Counselling/Risk assessment service:
  - [x] Dedicated Clinical Geneticist
  - [ ] Medical Oncologist
  - [ ] Breast Surgeon
  - [ ] General Surgeon
  - [ ] Gynaecologist
- [x] Genetic Testing available
- [x] Surveillance program for high-risk women

Data Management

- [x] Database used for clinical information
- [x] Data manager available

Contact details

Clinical Director

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Radiology

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Reconstructive Surgery

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Pathology

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Medical Oncology

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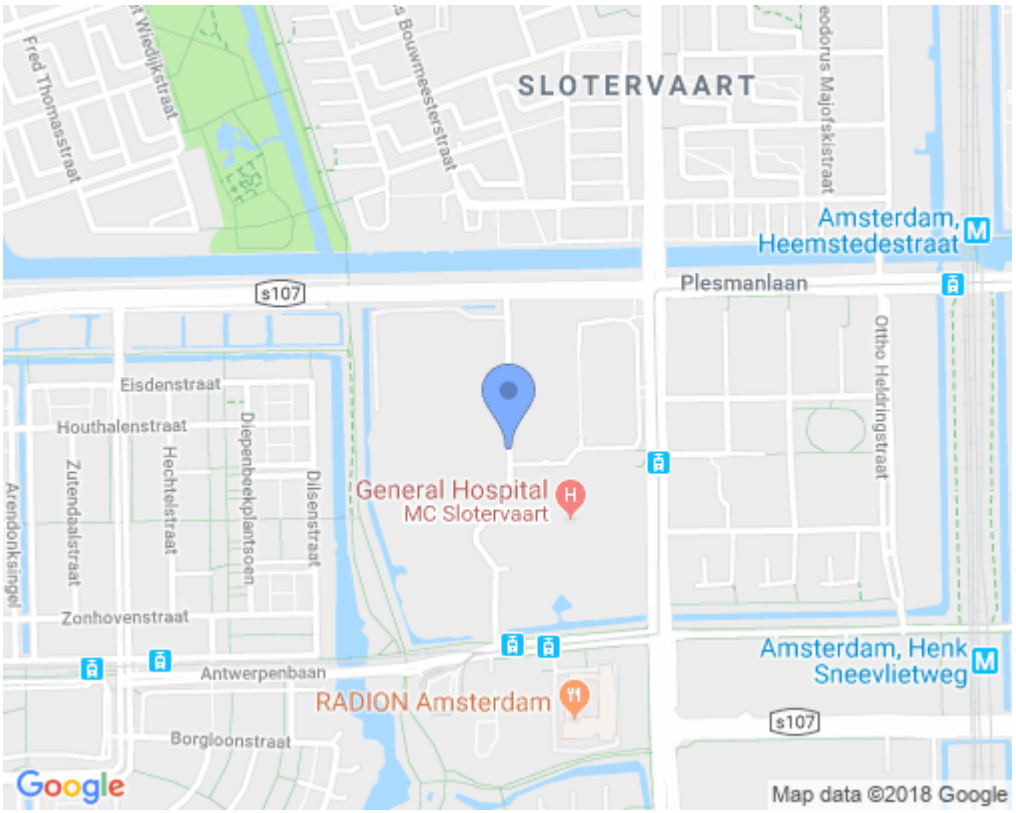
How to reach us



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From airport:

From Schiphol airport: take the train in direction Amsterdam Central Station, get off at Amsterdam Lelylaan station (10 minutes).

By bus or sub-way/underground:

From Amsterdam Lelylaan station:

• 5-minute bus ride (64), stopping outside the NKI/AVL (get off at Johan Huizingalaan);

• Metro to Heemstedestraat (1 stop), 10-minute walk from there.

From Amsterdam Central Station:

• tram 2 (get off at Johan Huizingalaan) (45 minutes);

• bus 18 (get off at Johan Huizingalaan) (35 minutes).

By car:

From Den Haag/Schiphol direction Amsterdam (A4):

Exit Sloten/Schinkel/x 107 (second exit after Schiphol tunnel);

at end of the exit road, turn right and follow the road with a bend to the left, passing Mercure Hotel, into the

Johan Huizingalaan;

at the second traffic lights, turn left into the Plesmanlaan. Entrance to NKI/AvL is immediately on the left.

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