The Breast Unit of Careggi University Hospital offers all clinical services to patients with benign breast neoplasms, and with early and advanced breast cancer. The collaboration among specialists in different disciplines, based on a multidisciplinary approach, offers high standard treatments, which includes diagnostic imaging and pathological assessment, oncoplastic and reconstructive surgery, systemic treatments in early and advanced disease, and radiotherapy. Other services include, risk assessment, and genetic counselling and testing, psychological counselling, rehabilitation and follow-up, services for lifestyle modification after breast cancer, and complementary therapies.

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Web-site: www.aou-careggi.toscana.it
Available services

- Radiology
  - Dedicated Radiologists: 8
  - Mammograms per year: 25000
  - Breast radiographers
  - Screening program
  - Verification for non-palpable breast lesions on specimen
  - Axillary US/US-guided FNAB
  - Clinical Research

- Nuclear Medicine
  - Available imaging equipment
    - Mammography
    - Ultrasound
    - Magnetic Resonance Imaging (MRI)
    - Digital Tomosynthesis - Contrast Enhanced Mammography

- Social Workers
  - 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
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Breast Surgery

- New operated cases per year (benign and malignant): 1288
- Dedicated Breast Surgeons: 6
- Surgeons with more than 50 surgeries per year: 6
- Breast Surgery beds: 14
- Breast Nurse specialists: 10
- 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
- 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

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
- 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Department</th>
<th>Email</th>
<th>Phone</th>
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## Radiology

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## Breast Surgery

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## Reconstructive Surgery

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## Pathology

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## Medical Oncology

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## Radiotherapy

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By bus or sub-way/underground:

By car:

Last modified: 18 October 2016