



# BREAST CENTRES NETWORK

Synergy among Breast Units

## ★ Instituto Portugues de Oncologia do Porto - Porto, Portugal

### General Information



**New breast cancer cases treated per year** 900

**Breast multidisciplinary team members** 33

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

**Clinical Director:** Joaquim Abreu de Sousa, MD

The Breast Clinic of the Portuguese Institute of Oncology of Porto is an integrated multidisciplinary unit of a comprehensive cancer center. The Breast Clinic follows the recommendations of the European Society of Mastology (EUSOMA) in order to offer high quality standards in breast cancer care. It is dedicated to clinical, research and teaching activities in the area of breast cancer. The Clinic offers a multidisciplinary approach including the early diagnosis, primary tumor local treatment, breast conservative surgery, sentinel node biopsy, breast reconstruction, systemic therapy, radiotherapy, risk assessment and genetic counselling, treatment of advanced disease and palliative care.

### **Instituto Portugues de Oncologia do Porto**

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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** 4
- ✓ **Mammograms per year** 10000
- ✓ **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

**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)** 1400
- ✓ **Dedicated Breast Surgeons** 12
- ✓ **Surgeons with more than 50 surgeries per year** 12
- ✓ **Breast Surgery beds** 38
- ✓ **Breast Nurse specialists** 6
- ✓ **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** \_\_\_\_\_ 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** \_\_\_\_\_ 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** \_\_\_\_\_ 8

**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

Social Service

**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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**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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How to reach us



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#### From airport:

The Portuguese Institute of Oncology of Porto Breast Clinic is located in the northern perimeter of Porto, near the Circunvalação road (EN12), about 15Km from Porto International Airport. The journey from the airport to IPO can be done by taxi (about 12 min, approximate cost 15€), bus or sub-way.

SUBWAY: take the purple line (“E”), direction “Estádio do Dragão” and change to the yellow line (“D”), direction “Hospital de S. João” at the “Trindade” station. The station that serves IPO is the last station before the terminus.

#### By train:

If you arrive in Porto by train, get off at “Campanhã” and then take a taxi or the sub-way to Portuguese Institute of Oncology of Porto.

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

The Portuguese Institute of Oncology of Porto is served by several bus routes. For information please go to [itinerarium.pt](http://itinerarium.pt).

The sub-way has a station that serves IPO, in the yellow line, “D”.

**By car:**

The best way to find Portuguese Institute of Oncology of Porto, coming from Circunvalação road (EN12), from VCI/IC23 or from A3 highway, is to follow the directions to “Hospital S. João” and then “IPO”.

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