



# BREAST CENTRES NETWORK

Synergy among Breast Units

## Hospital Sv. Georgi - Plovdiv, Bulgaria

### General Information



**New breast cancer cases treated per year** 155

**Breast multidisciplinary team members** 13

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

Our centre is located at the University Hospital 'St. George' in Plovdiv, Bulgaria, for screening, diagnostic workup and treatment of breast cancer and benign breast diseases. More than 2000 women are being examined annually in this center, among which more than 200 breast cancer new cases are being diagnosed and treated there. Diagnostic imaging is performed by a modern digital mammography machine, ultrasound with elastography and microvascular Doppler technique and 1,5T MRI unit with breast coil and software for dynamic studies. Surgery is carried out in the thoracic surgery clinic. Intra-operative radiotherapy can also be performed. Two surgeons, a reconstructive plastic surgeon, a radiologist, a nuclear medicine radiologist, an oncologist and two dedicated nurses, work for the center. Presurgical evaluation of patients includes clinical examination, mammography, ultrasonography, MRI if indicated, fine needle aspiration biopsy and core biopsy. Excised tumors and lymph nodes are histologically examined by a pathologist and immunohistochemical evaluation for ER-, PR- and HER-receptors is done.

### **Hospital Sv. Georgi**

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CERTIFICATION(S) ACCREDITATION(S)

**BCCERT - Breast Centres Certification**

Expiration date: 22 January 2021



[Certification document \(original lang.\)](#)

**NAPBC - National Accreditation Program for Breast Centers**

Expiration date: 22 January 2021

[Certification document \(original lang.\)](#)

[Certification document \(eng lang.\)](#)

**Deutsche Krebsgesellschaft**

Expiration date: 22 January 2021



[Certification document \(original lang.\)](#)

[Certification document \(eng lang.\)](#)

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** 2
- Mammograms per year** 1000
- 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)** 451
- Dedicated Breast Surgeons** 4
- Surgeons with more than 50 surgeries per year** 1
- Breast Surgery beds** 10
- 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** 1
- 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** 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

## Radiology

Daniela Manolova	Radiologist		+359 898742546
daniela manolova	radiologiste		

## Breast Surgery

Vanya Uzunova	Breast Surgeon	<a href="mailto:vanya.uzunova59@gmail.com">vanya.uzunova59@gmail.com</a>	+359 898478250
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## Reconstructive Surgery

Anton Tonev	Plastic Surgeon		+359 888993847
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## Pathology

Elena Poriazova	Pathologist		
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## Medical Oncology

Janet Grudeva	Head of Oncology Dpt.		+359 888254816
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## Radiotherapy

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