

**Hospital Name**

Instituto Português de Oncologia do Porto

**Hospital Address**

Rua Dr. António Bernardino de Almeida  
Porto 4200-072  
Portugal

**Department Profile: (a brief description max 100 words)**

The Anesthesiology Department at IPO Oporto excels in providing specialized anesthetic care in major oncological surgeries, supporting approximately 6,245 anesthesia procedures annually. With a focus on advanced techniques like loco-regional anesthesia, which comprises 12% of all procedures, the department plays a pivotal role in both scheduled and urgent surgeries. Our expertise extends to cutting-edge procedures with high complexity, underscoring our commitment to innovation and excellence in oncological care. This department is integral to the institution's mission to offer premier oncology treatments and education.

**Contact Details**

Germano Cardoso Head of Anesthesiology Department [germanocardoso@ipoporto.min-saude.pt](mailto:germanocardoso@ipoporto.min-saude.pt)

**Educational offer****The center offers training for:**

Both, Resident/Young specialist and Specialist

**The training is applicable for:**

Both, Observership and Hands-on training

**The observership is subject to the following legal requirements/prerequisites:**

no

**The hands-on is training subject to the following legal requirement/prerequisites:**

We highly recommend GMC (Ordem dos Médicos) register.

**Anaesthesia Subspecialty(ies) or Intensive Care Medicine training offered for foreign applicants for the observership training:**

- Thoracic
- General Paediatric
- Head and neck/ENT
- General Surgery
- Pain
- Neuroanaesthesia
- Ultrasound Guided Regional Anaesthesia
- Intensive Care Medicine
- Other

**Anaesthesia Subspecialty(ies) or Intensive Care Medicine training offered for foreign applicants for the hands-on training:**

- Thoracic
- General Paediatric
- Head and neck/ENT
- General Surgery
- Pain
- Neuroanaesthesia
- Ultrasound Guided Regional Anaesthesia
- Intensive Care Medicine
- Other

**Other Educational activity(ies) offered:**

- Journal club
- Departmental lectures
- Skill training sessions (TTE, TOE, USGRA, etc)
- Interdisciplinary consultations (MDM multidisciplinary meetings)
- One-to-one teaching
- Simulation

**Research activity(ies) offered:**

- Clinical research
- Data mining

**Sample publications (1-3)**

<https://www.cureus.com/articles/142082-efficacy-and-safety-of-sufentanil-infusion-for-postoperative-analgesia-in-cancer-surgery-a-retrospective-cohort-study#!/>

**Preferred exchange programme (Duration):**

- 2 months
- 3 months

**Specific months:**

- January
- February
- March
- April
- May
- June
- July
- September
- October
- November
- December

**Language requirements of an attending applicant:**

Portuguese, English and Spanish

**Languages spoken in the department:**

Portuguese (English and Spanish if necessary)

**Is accommodation available for an attending applicant (hospital facilities, useful links)?**

Yes

**Additional details**

The GMC facilities are a 18-minute (1,3 km) walk away and can be booked. The GMC also offers the possibility of renting the facilities. (expenses are not included). The metro stop is located directly in front of the IPO, and the IPO is situated next to the University Center of Porto.

**Remarks and comments:**

The Portuguese Institute of Oncology of Porto (IPO Porto) is recognized as the most important oncological hospital in Portugal, distinguished by performing the highest number of complex and highly specialized oncological surgeries in the country. This center of excellence not only leads in cancer innovation and treatment but is also strategically located in the vibrant city of Porto, known for its rich culture, unique hospitality, and as one of the most dynamic cities in Portugal. Moreover, Porto houses several level 3 hospitals, providing ample opportunities for professional and academic exchanges. It is also the Portuguese city that initiated and has the highest number of graduates from the European Diploma in Anaesthesiology and Intensive Care (EDAIC), reflecting the high standard of medical training available in the region. This combination of medical excellence and the welcoming environment of Porto makes IPO Porto a epicenter for the advancement of oncology in Portugal and Europe.

FELLOW IN:

## **ANESTHESIA FOR MAJOR ONCOLOGICAL SURGERY**

ANESTHESIOLOGY DEPARTMENT OF THE PORTUGUESE INSTITUTE OF ONCOLOGY OF Oporto

The Anesthesiology Department of the Portuguese Institute of Oncology of Oporto (IPO) proposes the organization of the Fellow in Major Oncological Surgery, as part of the ESA Fellows for the Medical Fellow of Specialized Training in Anesthesiology.

The Portuguese Institute of Oncology of Oporto (IPO Oporto) has as institution's commitment to being a reference in healthcare, education, and research in oncology, centering all its activities and organizational structure around patient care. It emphasizes the importance of innovation in oncology as a critical factor in the fight against cancer, realized through educational and scientific activities including basic, translational, and clinical research, conducted by the Department of Education and Training in Oncology (EPOP) and the research infrastructure resulting from the consortium between IPO Oporto and the Institute for Research and Innovation in Health (i3S).

IPO Oporto, as an oncological hospital, aims to ensure quick and easy access to specialized healthcare, a challenging task given the rising incidence and prevalence of cancer in the Portuguese population. Annually, approximately 10,000 new patients are referred to IPO Oporto, and about 50,000 are followed and monitored, making it the largest autonomous provider of oncological care in inpatient and outpatient settings nationally. IPO Oporto also boasts one of the largest Radiotherapy Services in the Iberian Peninsula.

Achieved the status of a European-level Comprehensive Cancer Centre was a main goal, designed under the IPO Oporto / i3S consortium - the Oporto Comprehensive Cancer Centre (P.CCC). To achieve this goal, three strategic axes have been defined:

1. **Patient-Centered:** Ensuring holistic healthcare that maximizes quality, comfort, efficiency, and humanization.
2. **Quality and Efficiency:** Expanding the current facilities and services to meet the growing demand and complexity of cases.
3. **Innovation in Oncology:** Emphasizing patient-centered research projects, precision oncology programs, the development of AI tools for oncology, and the implementation of value-based healthcare models.

These strategic axes correspond to operational programs aimed at reinforcing organizational culture, improving care integration and satisfaction, promoting a global vision, and strengthening information systems and citizen empowerment.

The initiatives to be developed will respond to the three strategic action axes, ensuring their alignment with the guidelines issued by the Central Administration of the Health System (ACSS).

The IPO is functionally divided by Pathology Clinics. The training period includes activities across different Clinics with special intervention in areas of higher differentiation, complexity, and subspecialization. The Pathology Clinics relevant to the Fellow are:

- HEAD AND NECK PATHOLOGY CLINIC
- BREAST PATHOLOGY CLINIC
- SKIN, SOFT TISSUE, AND BONE PATHOLOGY CLINIC
- NERVOUS SYSTEM PATHOLOGY CLINIC
- DIGESTIVE PATHOLOGY CLINIC
- ENDOCRINE PATHOLOGY CLINIC
- GYNECOLOGICAL PATHOLOGY CLINIC
- PULMONARY AND THORACIC PATHOLOGY CLINIC

Currently, the IPO serves as surgical Reference Centers for:

- RECTAL CANCER
- HEPATOBILIARY-PANCREATIC CANCER
- ESOPHAGEAL CANCER
- SOFT PARTS AND BONE SARCOMAS
- TESTICULAR CANCER

Additionally, IPO has expertise in specific surgeries such as:

- Hyperthermic Chemoperfusion;
- Intraoperative Radiotherapy;
- Surgery in Sarcomas;
- Surgery in Neuro-endocrine Tumors;

This training period will be carried out in an Institution recognized for its excellence in specialized anesthesia for oncological patients.

Our purpose is to motivate and train future specialists in Anesthesiology, promoting the development of their technical and scientific knowledge in Oncological Anesthesia, while providing high-quality care to patients, in an environment rich in stimuli for learning and research.

The program is directed at senior resident in Anesthesiology or Junior Anesthesiologist, but also older Specialists. We have the capacity to include 1 fellow simultaneously from September 1 to July 31.

Successful completion of the Fellow requires achieving care objectives (pre-anesthetic assessment, peri-operative and post-operative care), delivering an Activity Report, making an oral presentation at a Service Meeting or preparing an article suitable for publication.

## OPERATING ROOM

- Total number of anesthetics: 6245
- Number of loco-regional anesthetics: 719
- Percentage of loco-regional anesthetics/total: 12%
- Number of scheduled surgeries: 5444
- Number of outpatient surgeries: 301
- Percentage of outpatient anesthetics/scheduled: 6%
- Total number of urgent surgeries: 500
- Percentage of urgent anesthetics/total: 8%

## ANESTHESIAS

- GENERAL SURGERY: Urgent: 370, Scheduled: 2770, Outpatient: 47
- ORTHOPEDICS: Urgent: 2, Scheduled: 21
- GYNECOLOGY: Urgent: 1, Scheduled: 300, Outpatient: 52
- UROLOGY: Urgent: 27, Scheduled: 579, Outpatient: 3
- OPHTHALMOLOGY: Outpatient: 4
- OTORHINOLARYNGOLOGY: Urgent: 6, Scheduled: 357
- MAXILLO-FACIAL SURGERY: Scheduled: 3, Outpatient: 1
- PLASTIC, AESTHETIC, AND RECONSTRUCTIVE SURGERY: Urgent: 7, Scheduled: 362, Outpatient: 21
- NEUROSURGERY: Urgent: 20, Scheduled: 155, Outpatient: 1
- CARDIAC SURGERY: Urgent: 5, Scheduled: 14, Outpatient: 3
- THORACIC SURGERY: Urgent: 13, Scheduled: 222
- VASCULAR SURGERY: Scheduled: 262
- PEDIATRIC SURGERY: Urgent: 45, Scheduled: 115, Outpatient: 55
- ANESTHESIA OUTSIDE THE OPERATING ROOM: Urgent: 3, Scheduled: 207, Outpatient: 59
- OBSTETRIC ANESTHESIA: Urgent: 1, Scheduled: 77, Outpatient: 55

## **1 – Definition of the Fellow area (according to the clauses previously explained):**

The Fellows will be organized according to the distinct surgical specialties of the Pathology Clinic, taking into consideration the complexity and specialization required by each area. The categories of the Fellow include:

- Head and Neck Surgery
- Breast Surgery
- Skin, Soft Tissue, and Bone Surgery
- Nervous System Surgery
- Digestive Surgery
- Endocrine Surgery
- Gynecological Surgery
- Pulmonary and Thoracic Surgery
- Urological Surgery

This structure allows for training focused on technical depth and the specific knowledge necessary for excellence in anesthetic practice in the peri-operative period in each of these oncology fields.

## **2 – Duration:**

The duration of the Fellow is 2-3 months.

## **3 – Location for its completion:**

Anesthesiology Department of the Portuguese Institute of Oncology of Oporto.

## **4 – Person or persons responsible for the Fellow:**

The Major Oncological Surgery Fellow is under the responsibility of the Service Director or a legal substitute appointed by the Service Directorate.

## **5 – Objectives that should achieve by the end of the Fellow in terms of knowledge, attitudes, and skills:**

- Planning and Preparation: understands the relevance of pre-operative assessment and the optimization of patients with malignant neoplasms, making an anesthetic plan.
- Clinical Decision: is able to discuss and analyze the risks and benefits of the anesthetic technique in Oncology. Is capable of dealing with unexpected problems and able to alter the anesthetic plan in response to peri-operative events.
- Safety: Understands and participates in the WHO checklist. Follows the appropriate standards and protocols. Understands the need and the process of reporting incidents/adverse events.
- Professionalism: Recognizes the fears and concerns of the patient, maintains confidentiality, and protects the dignity of the patient.
- Teamwork: Functions as part of a team, has ease of communication, and has leadership capacity when necessary.
- Skills: Demonstrates familiarity with all the equipment used; shows attention to the clinical situation; maintains appropriate and rigorous records; is focused on safety and responds appropriately to problems in the peri-operative period; acute pain treatment in the post-operative period in the oncologic patient who may already be undergoing chronic pain treatment.

## **6 – Maximum training capacity for the period in question:**

September 1 - June 31: 1 Fellow

## 7 – Structuring of the Fellow for the planned time, with planned activity:

- The Fellow is structured with a Supervisor appointed by the Service Directorate or a legal substitute.
- Weekly scheduling by a Senior Hospital Assistant belonging to the Fellow Group, ensuring a distribution across different clinical areas.
- Period of personalized training and intermediate qualitative discussion to redefine the second half of the Fellow.
- Participation in Service Meetings and Journal Club Meetings.
- Participation in research studies is promoted.

## 9 – Contact:

Serviço de Anestesiologia / Anesthesia Department

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Oporto, 19.4.2024

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