

Scientific Report

EOC-USI 2025



EOC

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List of frequently used abbreviations

AFRi	Area Formazione medica e Ricerca / Medical Education and Research Area	IRT	Istituto di Ricerca Traslazionale / Institute for Translational Research
CHUV	Centre hospitalier universitaire vaudois	LRU	Local Research Unit
CTU-EOC	Clinical Trial Unit EOC	ORBV	Ospedale Regionale di Bellinzona e Valli
DAEICM	Dipartimento di Anestesiologia, Medicina d'Urgenza e Terapia Intensiva / Department of Anesthesiology, Emergency and Intensive Care Medicine	ORL	Ospedale Regionale di Lugano
EOC	Ente Ospedaliero Cantonale	PI	Principal Investigator
EOLAB	Institute of Laboratory Medicine	SAKK	Swiss Group for Clinical Cancer Research
ICCT	Istituto Cardiocentro Ticino / Cardiocentro Ticino Institute	SCTO	Swiss Clinical Trial Organization
ICP	Istituto Cantonale di Patologia / Cantonal Institute of Pathology	SNSF	Swiss National Science Foundation
ICT	Area Informatica e tecnologia della Comunicazione / Information and Communications Technology Area	SUPSI	Scuola Universitaria Professionale della Svizzera italiana
IIMSI	Istituto Imaging della Svizzera Italiana / Imaging Institute of Southern Switzerland	USI	Università della Svizzera italiana
INSI	Istituto di Neuroscienze Cliniche della Svizzera Italiana / Institute of Clinical Neurosciences of Southern Switzerland		
IOR	Institute of Oncology Research		
IOSI	Istituto Oncologico della Svizzera Italiana / Oncology Institute of Southern Switzerland		
IPSI	Istituto Pediatrico della Svizzera Italiana / Institute of Pediatrics of Southern Switzerland		
IRB	Istituto di Ricerca in Biomedicina / Institute for Research in Biomedicine		
ISFSI	Istituto di Scienze Farmacologiche della Svizzera Italiana / Institute of Pharmacological Sciences of Southern Switzerland		

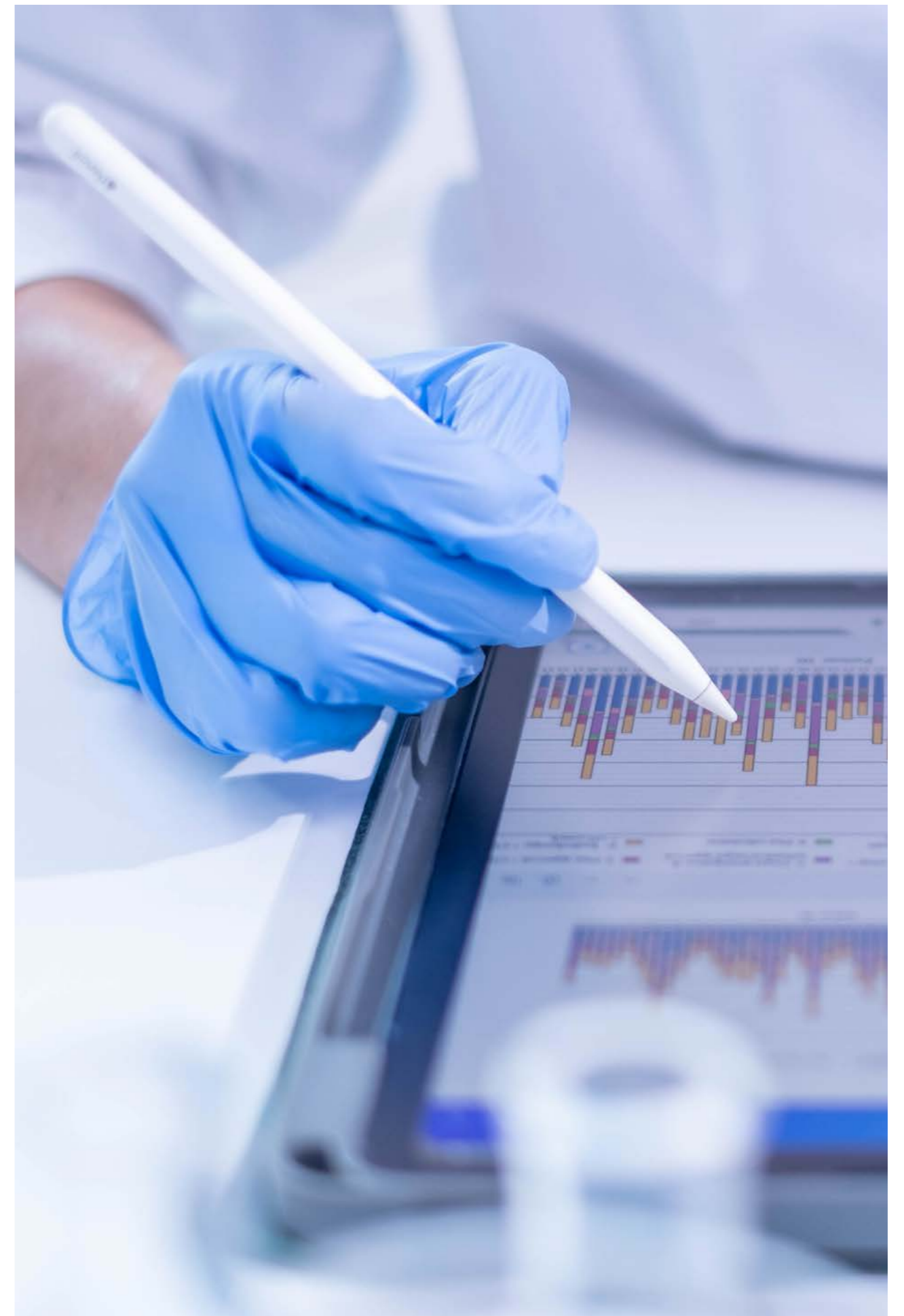
Preface

This annual scientific report highlights the medical research conducted throughout 2025 across the institutes, departments, and laboratories of the Ente Ospedaliero Cantonale (EOC), as well as at the Università della Svizzera italiana (USI). This format reflects the deepening collaboration between the two institutions - a partnership rooted in the establishment of the USI Faculty of Biomedical Sciences and solidified by the 2020 research cooperation agreement.

In 2025, the EOC scientific output maintained its strong upward trajectory. Both clinical research groups and translational laboratories produced high-quality work, earning widespread national and international recognition. Looking ahead, several major multidisciplinary projects are underway, connecting our teams with global research networks and promising to further accelerate EOC scientific impact. In this context, external funding plays a critical role in driving scientific breakthroughs by providing the essential resources for the execution and expansion of the research programs.

Alongside patient care and education, research remains a core pillar of the EOC mission. By bridging the gap between the laboratory and the bedside, EOC fosters the development of cutting-edge clinical and translational studies while ensuring the rigorous monitoring of clinical care processes. This commitment directly enhances the safety and quality of care, granting patients rapid access to innovative diagnostics and novel therapies.

The growing scale and excellence of the EOC research are fundamental to the growth of the USI Faculty of Biomedical Sciences. This momentum directly aligns with the four-yearly EOC strategic plan, which envisions a cantonal hospital uniquely empowered to lead in academic education and pioneering medical research.



EOC Institutes and multisite Departments



Oncology Institute of Southern Switzerland (IOSI)

Ilaria Colombo, MD

Chair Clinical Research Unit

Luigi Tortola, PhD

Scientific Project Manager Clinical Research Unit

Prof. Silke Gillessen Sommer, MD

Medical and Scientific Director

The Oncology Institute of Southern Switzerland (IOSI) is one of the largest clinical cancer research centers in Switzerland with a longstanding experience in the conduct of clinical trials. The IOSI encompasses the clinics in Medical Oncology (Head: Prof. Dr. S. Gillessen), Hematology (Head: Prof. Dr. G. Stüssi), Radiation Oncology (Head: Prof. Dr. T. Zilli) and Palliative Care (Head: PD Dr. T. Fusi-Schmidhauser) and the service of genetics (Head: Dr. S. Maitz). IOSI's expert physicians are also an integral part of the EOC's five interdisciplinary specialized oncology centers (*centri oncologici specialistici*, or COS) of the EOC, focusing on the treatment of breast, lung, colorectal, prostate and nervous system cancers.

Each of the IOSI clinics has its own clinical research activities and each team, based on its scientific interests, can propose trials to be activated or promote investigator-initiated trials. The IOSI scientific research board (composed of the IOSI medical and scientific director, the chair of clinical research, selected senior physicians, the CRU operations and finance managers, the scientific project manager and a finance representative) decides about the trials to be opened and is responsible for the strategy of the clinical research of the institute. To support investigators at IOSI and

promote clinical research, a well-structured clinical research unit (CRU, Head: Dr. I. Colombo) is active and coordinates the research activities. The IOSI-CRU staff includes research nurses, study coordinators, research pharmacists, administrative personnel and a quality assurance manager and provides the infrastructures and support for researchers of the institute. Finally, the dedicated medical team of the Phase I program takes care of the activation and conduct of early phase clinical trials including first-in-human phase I clinical trials, with the goal of offering patients access to innovative, cutting-edge therapies. The IOSI is the only oncology center in Ticino where phase I trials are conducted. The IOSI has an active program of competitive clinical research fellowships, to recruit and train talented young physicians from Switzerland and abroad, some of which then remain to strengthen the medical team dedicated to clinical research.

The three main areas of clinical research of our institute comprise new drug development, lymphoproliferative diseases (lymphoma and chronic lymphocytic leukemia) and prostate cancer, but our clinical research also covers additional specialties such as lung, gastrointestinal, gynecologic, melanoma and breast cancer.

During 2025, 18 new prospective clinical studies (among them 3 Phase I and 10 Phase II-III interventional clinical trials) were activated, which added to the already active trials, resulted in 55 open prospective studies at the end of 2025, 33 of them being interventional Phase I-III clinical trials. Together with studies evaluating new drugs mainly sponsored by pharmaceutical industry, we also run several investigator-initiated observational studies assessing biomarkers in hematological, prostate, breast and gynecological malignancies in collaboration with the Institute of Oncology Research (IOR), as well as interventional trials in colorectal and prostate cancer.

In 2025, 4 prospective IOSI-sponsored studies (including 1 interventional trial) received regulatory approval. The IOSI-AVA-LUNG-001 study, run in collaboration with the Institute for Research in Biomedicine (IRB) in Bellinzona, studies an innovative approach for the test of drugs in ex-vivo cultured tissue obtained from patients with lung cancer. The multicentric international LUCINAE registry will gather data on the delicate subject of pregnancies in patients with lung cancer, to collect valuable information on the therapeutic strategies and on the fetal and parental outcomes. The IOSI-MUSICAL-001 trial, initiated in collaboration with the Thoracic Surgery Department of the EOC, will study the effect of a music intervention in the control of pain and anxiety in patients undergoing minimally invasive lung surgery for a suspected or confirmed diagnosis of lung cancer. Lastly, the interdisciplinary PSY-DM-PCa study, initiated by the team of the *Centro Prostata della Svizzera Italiana (CPSI)* at the EOC, will assess the psychological factors influencing treatment decision-making in patients with prostate adenocarcinoma.

The IOSI is also currently running an initiative to foster the active involvement of patients with cancer in clinical research, educating them to be directly involved in the design and conduct of clinical trials, and in the dissemination of results. Our physicians also carry out numerous retrospective research projects, in which previously collected data is assessed in order to gain insights on the outcomes

of different types of malignancies and to identify parameters or treatments that can impact on the disease. During 2025, 8 new retrospective studies were approved, 5 of which were directly initiated by IOSI physicians. Part of these projects serve also as a material for the conduction of master theses for the students of the USI. The IOSI has an excellent history of collaborating with both the pharmaceutical industry and non-for-profit academic organizations. Of particular relevance are the collaborations with the IOR, the IRB, the International Extranodal Lymphoma Group (IELSG), the Swiss Cancer Institute (previously known as SAKK), the European Organization for Research and Treatment of Cancer (EORTC) and the Clinical Trial Unit of the EOC (CTU-EOC).

The participation of the IOSI within the Swiss Cancer Institute is particularly strong, with several of our physicians covering key roles within the various project groups (PG) and working groups (WG). This includes Dr. I. Colombo (Vice President PG Gynecological Cancer), PD Dr. S. De Dosso (Vice President PG Gastrointestinal Cancer), Dr. V. Espeli (President WG Head and Neck Cancer), Dr. R. Graffeo (Vice President Network for Cancer Predisposition Testing and Counseling), Dr. M. Imbimbo (Vice President PG Developmental Therapeutics), PD Dr. U. Vogl (President PG Urogenital Tumors), and Prof. Dr. A. Stathis (President PG Developmental Therapeutics). Furthermore, Prof. Dr. T. Zilli and Prof. Dr. D. Rossi are members of the Scientific Committee of SAKK.

Many of our medical staff have a central role in the USI Faculty of Biomedical Sciences and are also associated with ETH Zurich, University of Berne, University of Geneva, University of Zurich, University of Padua and the STAMPEDE team in the UK.

The quality of the clinical research carried out at the IOSI is periodically verified through audits and inspections from the authorities. The IOSI-CRU also organizes internal audits to verify the quality and the compliance of the processes with international guidelines, regulations and the standard operating procedures. The high volume of clinical research activity

highlights the devotion of IOSI to clinical research, with an extensive publication record of IOSI researchers in a multitude of areas related to both solid tumors and hematological malignancies that was maintained also in 2025, with several articles as first or senior authors and numerous high impact factor publications.

Researchers from the IOSI regularly present results of their work or are invited as speakers or chairpersons in major international conferences. This includes the Annual Congress of the European Society for Medical Oncology (ESMO), with Prof. Dr. S. Gillessen, Prof. Dr. D. Rossi, Prof. Dr. A. Stathis, PD Dr. S. De Dosso, PD Dr. U. Vogl, Dr. M. Imbimbo, Dr. A. Angrisani and Dr. M. Nerone serving as speakers, poster presenters and chairpersons in different sessions. Prof. Dr. A. Stathis was also co-chair of the ESMO congress on Targeted Anticancer Therapies (ESMO TAT). Dr. I. Colombo was appointed member of the Scientific Committees of the general ESMO congress, of ESMO Asia and of the congress on gynecological cancers (ESMO Gyne), while PD Dr. S. De Dosso was member of the Scientific Committee for the ESMO congress on gastrointestinal cancers (ESMO GI). The IOSI team also participated and presented at further international conferences, including among others the congresses of the American Society of Clinical Oncology (ASCO), the European Society of Gynaecological Oncology (ESGO), the European Society for Radiotherapy and Oncology (ESTRO), the European Hematology Association (EHA) and the European Association for Palliative Care (EAPC).

In the field of hematology, Prof. Dr. D. Rossi serves in the Organizing Committee of the International Conference of Malignant Lymphomas, in the Board of the international Workshop of Chronic Lymphocytic Leukemia and in the Scientific Committee member of the European School of Hematology. At the International Conference on Malignant Lymphoma (ICML) 2025, Prof. Dr. A. Stathis presented the results of the SAKK 38/19 trial, initiated by the IOSI, during the plenary session of the congress.

The IOSI organizes a variety of educational events to keep its staff updated on the latest developments in cancer research. Regular initiatives include the monthly “IOSI Oncobrunch” and “IOSI Teaching Conferences”. Additionally, in 2025, the IOSI organized notable events, such as the “Forum dei Pazienti” on patient and public involvement and engagement (PPIE) in clinical research (in collaboration with Lega Cancro Ticino) and the “Educational Course in Genetic Counseling in Oncology”. Physicians from the IOSI also actively coordinate and participate in the courses of the European School of Oncology. In 2025, the IOSI-CRU released the new version of the standard operating procedures (SOPs) for the conduct of clinical studies at the IOSI, and trained the staff involved in clinical trials on the updated procedures. The revised SOPs incorporate recent changes in regulatory frameworks and the updated Good Clinical Practice (GCP) guidelines.

The past year also saw significant achievements and recognitions for IOSI-affiliated professionals. At the Swiss Oncology and Hematology Congress (SOHC) 2025, Prof. Dr. F. Cavalli, founder of the IOSI, received the first-ever SOHC Lifetime Achievement Award. At the same congress, additional recognitions were awarded to Prof. Dr. D. Rossi (Jacques and Gloria Gossweiler Foundation Research Grant 2025, for his innovative work in lymphoma research), Prof. Dr. A. Stathis (SOHC Best Abstract Award – SSMO/SSH Award for Clinical Hemato-Oncology, for the SAKK 38/19 trial) and Dr. G. Ghilardi (Ellermann Prize “Young Hematologists” 2025, for his promising contributions to the field of hematology). During the semiannual meeting of the Swiss Cancer Institute, Dr. G. Salfi was awarded the SAKK/AbbVie Digital Innovation Award and Dr. G. Ghilardi received the SAKK/BMS HEM Pioneer Grant. During 2025, Dr. A. Condoluci and PD Dr. M.C. Piroso from the IOSI clinic of hematology obtained their MD-PhD titles. Several grants were obtained by IOSI investigators, in particular Dr. F. Turco and Prof. Dr. S. Gillessen from the Swiss Cancer League and from the Rising Tide Foundation for the DE-ESCALATE trial, Prof. Dr. G. Stüssi for a project focusing on the reduction of

toxicities in lymphoma patients subjected to CAR-T cell therapy, and Prof. Dr. D. Rossi from the Swiss Cancer League for a project on marginal zone lymphoma. Prof. Dr. D. Rossi was also awarded an additional grant from the CLL Global Research Foundation. Dr. P. Frösch obtained funding from the Fondazione Norma e Walter Hürzeler and from the Fondazione Per la Ricerca sul Cancro nel Ticino for the IOSI-MUSICAL-001 trial. The Fondazione Dr. Ettore Balli awarded a grant for a project on cutaneous squamous cell carcinoma to PD Dr. C. Mangas, and Dr. G. Leone received a grant from the Prostate Cancer Foundation. A large collaborative project (National AI Initiative for Precision Oncology - NAIPO), involving Prof. Dr. S. Gillessen and the IOSI as implementation partner, was financed by Innosuisse. PD Dr. T. Fusi-Schmidhauser and PD Dr. S. De Dosso will participate in a project focused on patient empowerment funded by the Swiss Cancer League. PD Dr. T. Fusi-Schmidhauser was also awarded a grant from the Swiss National Science Foundation (SNSF) for a multicentric investigator-initiated trial in collaboration on the efficacy of non-opioid drugs in addition to opioid therapy for cancer pain management. Lastly, a total of 4 EOC awards were assigned to IOSI researchers in 2025, including four young investigator awards (Dr. A. Angrisani, Dr. G. Pecoraro and Dr. I. Romano) and one senior award (Prof. Dr. T. Zilli).

The IOSI has a strong and well-established presence in major scientific, academic, and patient-oriented organizations at both national and international level. Prof. Dr. S. Gillessen is a member of the Marcel Benoist Foundation Scientific Prize Commission and of the Swiss Academy of Medical Sciences, as well as an honorary member of the European Society for Radiotherapy and Oncology (ESTRO) and President of the Scientific Committee of Fond’Action Contre le Cancer, where Prof. Dr. T. Zilli also serves as a member. In addition, Prof. Dr. T. Zilli is Vice-President of the Groupe Francophone de Radiothérapie en Urologie, Chair of the ESTRO Guidelines Committee, and a board member of the International Stereotactic Radiosurgery Society. Dr. L. Deantonio is a board member of the Swiss Society for Radiation Oncology and, together with Dr. A. Angrisani, participates in ESTRO focus

groups, while Dr. G. Pesce directs the ESTRO course on the management of brain tumors. Dr. F. Martucci is a board member of Swiss Hyperthermia. In the field of palliative care, PD Dr. T. Fusi-Schmidhauser is Co-President of the Physicians’ Group of the Swiss Society for Palliative Medicine and President of its Bigorio Working Group; she is also a member of the board for specialty examinations and accreditation of training centers in palliative medicine, as well as of the working group on integrating palliative care in heart failure, and serves on the Cantonal Ethics Committee together with Prof. Dr. E. Zucca. Prof. Dr. G. Stüssi is President of the Swiss Cancer League, while Dr. V. Espeli (Vice-President) and Prof. Dr. S. Gillessen represent the Ticino Cancer League. Prof. Dr. C. Sessa, initiator of IOSI’s patient involvement initiative, is President of the Swiss PPIE Network. Engagement with patient associations is also ensured by Dr. L. Rossi, Dr. D. Bosetti, and PD Dr. U. Vogl, highlighting a comprehensive and patient-centered approach.

For the years to come, the development of investigator-initiated trials represents a major objective of clinical research for the IOSI. For this reason, the IOSI is aiming to increase the number of investigator-initiated clinical trials over the next years in collaboration also with the CTU-EOC. With the aim of further promoting the transfer of preclinical knowledge to the clinic, regular scientific meetings with the heads and PIs of IOR and the IRB (Bios+) have continued in 2025. This resulted in the publication of collaborative original research articles involving IOSI as well as IOR / IRB.

Institute of Clinical Neurosciences of Southern Switzerland – Neurocenter (INSI)

Prof. Alain Kaelin, MD PhD
Medical and Scientific Director

The core mandate of the INSI is to ensure excellence in patient care through the integration and promotion of interdisciplinary and multidisciplinary approaches. Translational and clinical research, along with educational activities, are fundamental priorities of the Institute, fostering a strong and continuous link between scientific advancement and patient care. Academic collaborations with USI, SUPSI, and other national and international universities continue to play a crucial role in supporting the Institute's progress. In 2025, INSI once again demonstrated a high level of productivity and quality in both clinical and translational research, evidenced by the publication of numerous articles in high-impact peer-reviewed journals and the successful acquisition of several competitive research grants.

Epilepsy research group

Dr. P. Agazzi, Dr. C. Prosperetti

In 2025, the core activities of our research group focused on epilepsy associated with brain tumours and on the evaluation of biomarkers of brain injury in acute neurological conditions, including status epilepticus and post-anoxic encephalopathy. We completed the analysis of a glioblastoma patient registry, with particular attention to sex-related differences in disease prevalence, biochemical markers, therapeutic approaches, and clinical outcomes. In collaboration with the Cardiological Intensive Care Unit, we assessed a novel

laboratory method for the detection of blood biomarkers of brain damage following cardiac arrest to be applied to routine clinical practice. In addition, we joined a large international study on status epilepticus, entitled Impact of Status Epilepticus on Human Brain Structure and Function (IMPOSE), coordinated by the University Hospital of Zurich which primarily aims to investigate clinical features, neuroimaging findings, and blood biomarkers of brain damage following status epilepticus. Finally our epilepsy research group actively contributes to defining the global epidemiological landscape of the disease, including through participation in major international studies aligned with the scientific collaboration efforts of the Global Burden of Disease project.

Headache research group

Prof. Dr. C. Zecca

In 2025, the Headache Center continued to advance clinical research aimed at improving the understanding and treatment of primary headache disorders with focus on migraine. Our work focused on identifying genetic and clinical predictors of response to newly approved migraine therapies (Anti-CGRP monoclonal antibodies), with the goal of supporting more personalized and effective treatment doses and strategies. We also contributed to post marketing safety monitoring, collecting prospective data to better characterize the tolerability and long term safety profile of these emerging treatments, focusing on bone health.

We are also conducting a research project based on a digital application supported by artificial intelligence for migraine patient's education. In parallel, our Center remained actively involved in several international, industry sponsored clinical trials investigating innovative acute and preventive migraine treatments.

Movement Disorders research group

PD Dr. S. Galati

Our clinical research primarily focuses on understanding how changes in neuronal plasticity during sleep affect movement disorders, such as dystonia and levodopa-induced dyskinesia (LID) in Parkinson's disease (PD). Currently, three translational research projects are underway involving PD patients with LID, utilizing high-density recordings and acoustic stimulation. The first two studies explore the synaptic "build-up" process during wakefulness, as indicated by increases in theta activity throughout the day. We aim to clarify whether the absence of a distinct reduction in slow wave activity (SWA) overnight—typical of LID patients—is due to an abnormal daytime build-up process or an impaired SWA-mediated downscaling mechanism. The second study also examines the clinical impact of nocturnal acoustic stimulation versus sham stimulation on LID severity. We will assess LID severity using both objective and subjective measures, and anticipate a reduction in symptoms with acoustic stimulation. In collaboration with the Swiss Red Cross, the Conservatorio della Svizzera Italiana, and the Hildebrand Clinic, we have also conducted a study evaluating the effects of a group music creation program on the health and well-being of Parkinson's patients.

Multiple Sclerosis Center

Prof. Dr. C. Gobbi, Prof. Dr. C. Zecca

In 2025, the Multiple Sclerosis Center (MSC) continued to advance clinical research with a focus on improving monitoring tools and refining treatment strategies for people living with multiple sclerosis (MS). A key priority was our contribution to several projects aimed at personalizing MS therapies

through the use of specific biomarkers, including neurofilament light chain (NFL), GFAP and memory B cell measurements. By integrating biomarker data with clinical evaluation, we seek to support more accurate and individualized therapeutic decisions especially for high-risk patient groups such as the elderly, patients with multiple comorbidities, or those who are long-term immunosuppressed.

We also strengthened our national and international collaborations by joining a multicenter effort to establish a cohort of patients treated with cladribine. This cohort will provide essential real world evidence on treatment effectiveness, safety, and long term outcomes, helping to guide clinical practice across different healthcare settings. In parallel, the MSC remained an active and recognized site for several international, industry sponsored clinical trials. Through these studies, we offer patients early access to innovative therapeutic options and contribute to the global development of new treatments for MS.

Overall, 2025 was marked by productive collaborations, scientific progress, and a continued commitment to advancing MS research at both the national and international levels with several publications in highly impact international journal.

Peripheral Nerves research group and Center Myosuisse

Prof. Dr. G. Melli, PD Dr. P. Ripellino

The Center takes advantage of the "skin biopsy laboratory" (Institute for Translational Research EOC-USI) for the diagnosis of small fiber neuropathy and the "clinical autonomic nervous system laboratory" for the evaluation of dysautonomic disorders. We are working on several research projects for early detection and characterization of amyloid fibrils in skin biopsy of patients with systemic amyloidosis and participate to the Swiss Amyloidosis Network. In 2025 the group has published in Nature Communications the first cryo-EM structure of transthyretin fibrils isolated from skin tissue of a living patient carrying a rare genetic mutation (ATTRv F64S), the work was done in collaboration with IRB, Bellinzona and the cryo-EM unit, University of Geneva.

In 2025 we continued to collect data and biological samples on genetic neuropathies (mainly SORD, coordinating a Swiss network) and inflammatory neuropathies, such as Chronic Inflammatory Demyelinating Polyneuropathy (CIDP), coordinating in Switzerland the registry named INCBASE. Further analysis of data collected in the past within the IGOS registry resulted in two publications on Guillain-Barré syndrome. Our Center is actively participating in the Swiss Registry of neuromuscular diseases and the registry on Amyotrophic Lateral Sclerosis. Finally, we started a local Biobank on neuromuscular diseases (Biobanca Myosuisse); so far, more than 180 patients were included and this allowed to establish new international collaborations with basic scientists (Humanitas, Milan; Charité, Berlin; Mayo Clinic, Rochester; Oxford University).

Neuropsychology and Speech Therapy research group

PD Dr. L. Sacco

Our mission is dedicated to conducting a wide range of studies focused on understanding the mechanisms of social cognition in various clinical conditions. This includes neurodegenerative disorders such as Alzheimer's disease and frontotemporal dementia, as well as neurodevelopmental conditions like autism spectrum disorder and attention-deficit hyperactivity disorder (ADHD). In Alzheimer's disease research, the unit is committed to phase II and Phase III anti-tau and anti amyloid pharmacological studies aimed at advancing treatment options. The research is carried out in collaboration with prestigious international sponsors, ensuring the integration of the latest scientific advancements. The unit is also dedicated to researching neurodevelopmental disorders, particularly ADHD, focusing on the development and testing of innovative devices for monitoring, diagnosing, and supporting individuals with these conditions. The studies include both experimental investigations and retrospective analyses, offering a comprehensive view of the disorder's progression and potential interventions. Additionally, the unit is involved in the validation of standardized neuropsychological

tests in Italian, in collaboration with university centers across Switzerland. This effort ensures that diagnostic tools are linguistically and culturally appropriate, enhancing their accuracy in clinical settings.

Through its multi-disciplinary approach, the Neuropsychology Research Unit goal is to contribute to the improvement of diagnostic tools and therapeutic strategies, leading to more effective treatments and better outcomes for individuals affected by neurodevelopmental and neurodegenerative disorders.

Neuroradiology research group

Prof. Dr. A. Cianfoni

The Neuroradiology Service of the INSI is committed to providing high-level morphological and functional advanced diagnostic neuroimaging, image-guided spine interventions, as well as endovascular diagnostic and therapeutic procedures. A new project using a novel, ultra-high contrast MRI technique, called MASDIR, is in progress, in collaboration with the University of California San Diego, applied to patients with MS and migraine. Furthermore, there has been continuous clinical research collaboration with the MS Neurology Center, with various research projects: 1) Measures of smouldering MS in natalizumab and ocrelizumab treated MS patients; 2) Brain and retinal changes in migraine. An MRI and OCT study; 3) Fully-automated estimation of upper cervical cord cross-sectional area using pontomedullary junction referencing in multiple sclerosis. In the Head and Neck domain there is ongoing clinical research effort, in collaboration with Otorhinolaryngology service, on perfusion MRI study of salivary glands tumors, flat panel CT imaging of middle and inner ear, and MRI imaging of endolymphatic hydrops.

INSI Neuroradiology collaborates in research projects with IIMSI Radiology on MR examinations under hypnosis, for claustrophobic patients, with Cardiology with the multicentric SWISS-AF REACT-HF studies, with paediatric neurology with study PASTA, on paediatric stroke, with Neuro-oncology with the IVY-gliofocus and SAKK study, on RANO imaging criteria for Glioblastoma, with The Neurology Dept. with

the IMPOSE study on status epilepticus. On the interventional side, there has been ongoing studies mainly on the minimally invasive treatment of osteoporotic and neoplastic vertebral fractures, in close collaboration with the INSI Neurosurgery department and the INSI pain medicine service. Interventional Neuroradiology has participated in a multicenter randomized controlled trials on endovascular stroke treatment, called TEKNO, which has been completed. There has been a continuous output of scientific publication on minimally invasive approaches to treat complex osteoporotic vertebral fractures

Neurosurgery research group

PD Dr. A. Cardia, PD Dr. F. Marchi

The Neurosurgical Service actively promotes research in both cranial and spinal disorders, as well as advances in their treatment. In the vascular field, 2025 marked the launch of a new project on the microbiome and cavernous angiomas, together with the Institute for Translational Research EOC-USI and the Istituto Cantonale di Patologia, supported by a grant from the Fondazione Ettore Balli and by the establishment of the Microbiome Neuroscience Foundation. With regard to other national vascular trials, our centre continued to contribute actively to the SWISS SOS project on subarachnoid haemorrhage due to intracranial aneurysms and to the EMINENT-CH trial on minimally invasive endoscopic evacuation of intracerebral haematomas. In 2025, the Neurosurgical Service also joined the SPACE-Shield study, a Swiss trial investigating single-stage cranioplasty following decompressive craniectomy for malignant middle cerebral artery stroke with cerebral oedema. On the oncological side, the Brain Tumour Research Project further strengthened the collaboration with the Cantonal Institute of Pathology and the IOSI, focusing on miRNA profiling in gliomas and on the clinical impact of MGMT quantification. The collaboration with SUPSI on the project funded by the Fondazione Leonardo—aimed at quantifying fluorescence in brain tumours—has progressed to intraoperative in vivo analysis, with important results expected soon. The Spinal Research Group continued

to investigate the benefits of robotic technologies in complex spine surgery. The team conducted innovative studies on techniques and materials in spinal procedures, particularly in the management of oncological and degenerative spinal diseases. Close collaboration with the Neuroradiology Service also enabled the first results from the SAIF-Rod project, exploring combined minimally invasive surgical approaches for traumatic, oncological, and osteoporotic fractures.

Non-Invasive Brain Stimulation (NIBS) research group

PD Dr. G.C. Riccitelli

The NIBS Research Group is dedicated to advancing non-invasive neurostimulation therapies for the treatment of neurological and neuropsychiatric disorders. Its research addresses cognitive, motor, and behavioural impairments through personalised, multimodal interventions that integrate neuromodulation with conventional rehabilitation techniques. Particular emphasis is placed on the development and validation of remote-access treatment protocols, designed to improve accessibility and ensure continuity of care, especially for patients with limited mobility. A core area of investigation focuses on the immunomodulatory effects of brain stimulation in Parkinson's disease, with specific attention to the modulation of inflammatory biomarkers. In parallel, the group explores the therapeutic efficacy of transcranial magnetic stimulation (TMS), combined with EEG-based neurophysiological measures, to enhance cognitive and functional recovery in individuals affected by stroke and dementia. The NIBS Research Group plays a key role in two Innosuisse Flagship Projects, contributing to the development of standardised clinical protocols for the diagnosis and treatment of post-stroke neurocognitive disorders, in alignment with national translational research priorities. Collaborative activities extend across both institutional and international levels. Within the EOC, partnerships with the Movement Disorders Group, IOSI, and the Laboratories for Translational Research support clinical

implementation. Internationally, the group is an active partner in a European Training Network focused on validating home-based neuromodulation approaches for the management of refractory cancer pain. In 2025, findings from NIBS-led studies were disseminated in peer-reviewed scientific journals, advancing the field in biomarker-driven neuromodulation, home-based treatment models, and personalised stimulation protocols. These contributions continue to position the NIBS Research Group at the forefront of scientific and clinical innovation in neurorehabilitation.

Ophthalmology research group

PD Dr. M. Menghini, Dr. G. Grimaldi

Our ophthalmology research group continues to investigate the clinical impact of novel therapeutic strategies for retinal diseases. 2025 has been marked by significant expansion in national collaborations, including the continuation of key agreements with other Swiss institutions. Our group has played an active role in the scientific activities of the Swiss Retina Research Network, a national consortium of specialized retina centers collecting real-world data on innovative therapies. Our Center is among the top enrolling sites across all ongoing projects, which include real-world analyses of faricimab in neovascular age-related macular degeneration (nAMD), diabetic macular edema (DME), and retinal vein occlusion, as well as preliminary data on aflibercept 8 mg in nAMD and DME. One study focuses on characterizing clinical profiles and estimating the incidence of intraocular inflammation (IOI) after Eylea® 8 mg, with a secondary objective comparing vial-based administration and prefilled syringes. In parallel, we participated in a multicenter collaboration applying artificial intelligence to retinal imaging (RetinAI). Additional studies evaluated functional and structural outcomes in patients with DME treated with Ozurdex. Our surgical research included studies on vitrectomy for retinal detachment, correlating OCT and microperimetry findings with visual outcomes, and on epiretinal membrane surgery, assessing visual acuity, metamorphopsia, retinal sensitivity, and anatomical changes.

We are also involved in neuro-ophthalmology, analyzing retinal and choroidal changes in migraine patients, and in genetic and rare disease research, including Doyme Honeycomb Retinal Dystrophy (DHRD) or Malattia Leventinese. Further projects address ocular safety of novel systemic therapies (e.g., mirvetuximab) and OCTA biomarkers in faricimab-treated nAMD. Funding is provided by an unrestricted grant from Bayer AG Switzerland, and our unit serves as a site for two Phase IV clinical trials (VOYAGER, SPECTRUM).

Pain research group

PD Dr. P. Maino

The Pain Management Center at EOC, under the leadership of PD Dr. P. Maino, continues to perform cutting-edge research, focusing on improving chronic pain treatments through minimally invasive interventions and the integration of psychological factors. The Center conducts multicenter randomized controlled trials, observational studies, and systematic reviews with meta-analyses to enhance therapeutic outcomes. Special attention is given to low back and neck pain, which are leading causes of disability worldwide, particularly when resistant to conventional therapies. Research efforts have advanced techniques such as intradiscal injections with hyaluronic acid and ozone. Neuromodulation therapies, including ganglion stimulation and spinal cord stimulation, are also being evaluated for back pain and facial pain. Collaboration is integral to the center's mission, with multidisciplinary projects involving experts from neurosurgery, neuroradiology, orthopedics, and neurology, as well as partnerships with national and international academic institutions such as Prof. M. Barbero from SUPSI. A significant project in collaboration with the "2rLab" and the Department of Education, Culture, and Sport (DECS), will focus on adolescent pain. This study aims to identify factors associated with the development and persistence of pain in adolescents, a condition affecting 4% to 40% of young people in Switzerland. Through its innovative research and collaborative efforts, the Pain Management

Center at EOC remains at the forefront of pain therapy, committed to improving patient outcomes and advancing global knowledge in pain management.

Sleep research group

Prof. Dr. M. Manconi; Prof. Dr. S. Miano

In 2025, the Sleep Medicine Unit of the Neurocenter of Southern Switzerland in Lugano consolidated and expanded its research activity, reinforcing its position as a national and international reference Center in clinical and translational sleep medicine. Research during 2025 focused on the following main thematic areas: sleep-related movement disorders, obstructive sleep apnea, and central disorders of hypersomnolence, parasomnia, and forensic sleep medicine. These activities were supported by large, well-characterized clinical cohorts and by the integration of advanced neurophysiological, polysomnographic, and epidemiological approaches. Scientific productivity in 2025 remained high, with a sustained output of 16 peer-reviewed publications, including original research articles, reviews, and expert consensus papers in leading international journals in sleep medicine, neurology, and respiratory medicine. The Unit also contributed to invited symposia and international workshops, fostering interdisciplinary dialogue between clinicians, researchers, and legal experts. Competitive research funding represented a major strength in 2025. An "Ambizione" Grant from the Swiss National Science Foundation supported the research program of PD Dr. A. Castelnovo on the topic of parasomnia. Dr. P. Altrudo led a Promotion "Santé Suisse" prevention grant focused on sleep health promotion among night shift nurses. In addition, Prof. Manconi coordinated a Franscini Grant aimed at strengthening international and interdisciplinary collaboration in forensic sleep research, and was awarded with the "Restless Legs Syndrome Foundation" grant. Furthermore, the Sleep Medicine Unit is involved in phase 3 international clinical trials in the field of hypersomnia and restless legs syndrome. One randomized controlled trials is ended to evaluate the

efficacy, safety, and tolerability of a new drug for the treatment of Narcolepsy, and the long term follow up study is ongoing. We are collaborating to Swiss registry of children with home respiratory support, we are actively involved in the research activity of the Swiss Narcolepsy Network and are also collaborating to the International Swiss Primary Hypersomnolence and Narcolepsy Cohort study.

Stroke research group

Prof. Dr. C. Cereda, Dr. G. Bianco

The Stroke Center's research activities focus on patient-oriented clinical research. Our primary interest lies in understanding the role of multimodal advanced neuroimaging—particularly perfusion imaging—in diagnosing and selecting optimal treatments for acute ischemic stroke patients, in collaboration with the Neuroradiology research group and other national and international groups. We are currently leading studies investigating: 1) The role of multimodal imaging in patients with ischemic stroke in the posterior circulation (basilar artery stroke); 2) Gender differences in acute stroke treatment; 3) Prior antiplatelets therapy as modifiers in acute stroke treatment response; 4) Stroke related to small vessel disease. Additionally, we are dedicated to identifying new serum biomarkers to optimize the diagnostic process for transient ischemic attack (TIA), including our ongoing ELVIS ACS Study. The Center also serves as a platform for industry-sponsored international trials and promotes numerous academic clinical studies. We actively participate in national and international projects focused on acute stroke management, stroke prevention, and stroke treatment.

Laboratory research

[See CHAPTER III on the Institute for Translational Research.](#)

Cardiocentro Ticino Institute (ICCT)

Prof. Stefanos Demertzis, MD

Scientific Director

Prof. Marco Valgimigli, MD PhD

Chair Clinical Research

Interventional Cardiology

Prof. Dr. M. Valgimigli, PD Dr. D. Sürder, Dr. A. Landi, Dr. A. Quagliana, Dr. A. Milzi

The interventional cardiology research group participates in several national and international trials, which are coordinated by the cardiovascular research service (SRC) and runs multiple international interventional studies under the leadership of Prof. Dr. M. Valgimigli. This research groups focuses on advanced statistical and artificial intelligence modelling, novel pharmacological options and cutting edge technologies to optimize the diagnosis and treatment of patients with coronary or structural heart diseases. The research leader, Prof. Dr. M. Valgimigli, has an H-index of 121 and has held the title of Clarivate Highly Cited Researcher in Clinical Medicine since 2017, which identifies researchers who rank above the ninety-ninth percentile as the number of citations. Since 2020, he has been on Stanford University's list of 'World's Top 2%' scientists', which identifies the world's most prolific researchers according to a composite index that includes not only the number of citations but also the H-index and many other bibliometric indicators. This group has developed in 2024 the PRECISE HBR bleeding risk scoring system, which is a novel tool to predict and possible prevent bleeding risk among patients undergoing coronary revascularization. Among the others, the research group has just completed the enrollment in the NATURE trial, which investigated the role of a new thrombectomy device for the management of patients with ST-segment

elevation myocardial infarction and large thrombus burden and involved 15 sites in Switzerland, Italy and Belgium. This group had designed and currently conducts, in cooperation with the Inselspital, Bern, the MATRIX-2 trial, which investigates a new treatment option for patients who underwent recent coronary stent implantation and are simultaneously affected by atrial fibrillation. The research group has also designed and conducted several multicenter randomized clinical trials, including the TITAN-DEB (investigating the role of novel drug-coated balloons for the treatment of de novo long lesions) and the TITAN-OMI (appraising the role of artificial intelligence in the early detection and management of occlusive myocardial infarction) studies. Last year, the group has also been awarded a grant from the Swiss National Science Foundation to support the TITAN-PARADISE trial, a large multicenter randomized clinical trial investigating the role of drug-coated balloons in the treatment of vulnerable plaques for the prevention of myocardial infarction. The research group also contributes to the technological development of devices to improve patient outcomes through the conduct of multicenter studies focused on coronary (e.g., BIOFLOW-48, BIOMAG-II) and structural heart disease (e.g., VERISIGHT ICE PRO registry). Furthermore, the group is actively participating as recruitment site in multiple randomized trials and registries, among which SWISS TAVI, MITRASWISS, SOS AMI, Amundsen, Victorion Plaque, and many others. Last year, the research

group published an important individual patient data meta-analysis (The Lancet, 2025) showing that clopidogrel monotherapy reduces the risk of ischemic events compared with aspirin as long-term treatment in patients with established coronary artery disease. The research group actively supports and promotes early-career researchers. A project focused on the optimal antithrombotic therapy after myocardial infarction or coronary revascularization has been funded last year in the context of the AFRI-EOC call for young researchers in 2025 (Dr. C. Stroppa).

Clinical Electrophysiology

Prof. Dr. G. Conte, PD Dr. M.L. Caputo, PD Dr. T. Özkartal, PD Dr. M. Bergonti, Dr. E. Scheirlynck

The Cardiac Electrophysiology and Pacing Research Group, led by Prof. Dr. Conte, is actively engaged in a broad spectrum of research activities, including international multicenter cohort studies, investigator-initiated studies, and randomized clinical trials. The group's research focuses on the diagnosis and management of cardiac rhythm disorders, encompassing complex arrhythmia ablation, implantation of cardiac implantable electronic devices, lead and device management, remote patient monitoring, computational modeling, and AI-enabled advanced signal processing. The group's scientific output, leadership in international collaborations, and pioneering work in AI-driven cardiology position it as a significant contributor to advances in the diagnosis and treatment of cardiac arrhythmias. In addition, the group is strongly involved in the study of rare cardiovascular diseases, including genetic cardiomyopathies and inherited arrhythmia syndromes. Prof. Conte serves as co-chair of the Cardiogenetics Committee of the European Heart Rhythm Association (EHRA), while Dr. Scheirlynck is affiliated with the European Reference Network for Rare and Low Prevalence Complex Diseases of the Heart (ERN GUARD-HEART). In 2025, the research group published numerous scientific articles in leading peer-reviewed journals, including the European

Heart Journal, the Journal of the American College of Cardiology, JAMA Cardiology, JACC: Clinical Electrophysiology, EP Europace, and Resuscitation. Prof. Conte's research activity was recognized with the 2025 EOC Prize for Senior Researchers. In the same year, PD Dr. Bergonti was awarded the 2025 Swiss Rhythm Research Prize for research on different approaches to atrial fibrillation ablation in patients with heart failure, published in JACC: Clinical Electrophysiology. Several international multicentre studies have been conducted under the leadership of the group. The team is also involved in national and international clinical trials, including studies on atrial fibrillation (e.g., Swiss-AF Study), sudden cardiac arrest (COICA), leadless pacemakers (PREMIERE Registry), pulsed-field ablation (OPALIZE Study), and extracardiac implantable defibrillators (PSR Enlighten Registry). In addition, four investigator-initiated trials led by the group are currently ongoing, including sponsored studies on ablation (PI: PD Dr. Bergonti; Prof. Conte), cardiac device infections management (PI: PD Dr. Özkartal; Prof. Conte), and a randomized controlled trial on atrial fibrillation ablation (PI: PD Dr. Bergonti; Prof. Conte). Prof. Conte also contributed to two consensus statement documents of the European Heart Rhythm Association and the European Association of Percutaneous Cardiovascular Interventions of the European Society of Cardiology addressing (1) the role of provocation testing in cardiac electrophysiology and (2) the state of the art of artificial intelligence in clinical electrophysiology (published in EP Europace). PD Dr. Caputo contributed to the international consensus document on out-of-hospital cardiac arrest (published in Resuscitation Plus) and to the 2025 European Resuscitation Council Guidelines (published in Resuscitation). Dr. Scheirlynck contributed to the ERN consensus document on the multidisciplinary management of the transition of patients with cardiomyopathies (published in the European Heart Journal – Quality of Care and Clinical Outcomes). The group collaborates closely with the Interdisciplinary Institute of Data Science (USI), the Institute of Digital

Technologies for Personalized Healthcare (MeDiTech, SUPSI), and Fondazione Ticino Cuore. These collaborations enable the integration of clinical cardiology with data science, fostering innovation in AI-driven diagnostics. The resulting research activities have been supported by competitive funding from the Swiss Heart Foundation, Innosuisse (Eurostars-2 programme), and the Swiss National Science Foundation. Moreover, PD Dr Caputo and Prof Conte were elected as Swiss representatives of the Precision Medicine for Cardiac Arrest (PREMEDICARE), a European researchers' consortium, whose activities are funded by the European Union. Prof. Conte also serves as the clinical cardiology research partner in the SNF-funded project "Multimodal clinical data AI-based integration for clinical research eligibility surveillance (iCares)". Recently, the group developed an AI-based model for the early detection of life-threatening cardiac conditions and genetic arrhythmia syndromes using 12-lead ECG data. Finally, the group actively supports and promotes the engagement of early-career researchers. In this context, a project focusing on cardiogenomics and cardiomyopathies was funded in 2025 by EOC through the Duferco Call for Medical Research for Resident Physicians.

Cardiac Surgery

Prof. Dr. S. Demertzis, Prof. Dr. E. Ferrari

Extracorporeal Circulation

1) Intraoperative monitoring of the gaseous emboli (micro-air bubbles) that travel through the heart-lung machine and are filtered by the several machine components was introduced. Despite filtering, in some cases clouds of tiny bubbles (generally <200µm) still enter the patient and we are assessing their correlation with systemic inflammatory reactions or subtle neurological effects (S. Demertzis, S. Vandenberghe, M. Puthettu). Funded by the Swiss Heart Foundation -concluded-.

2) Protecting the brain while treating the heart is a block of two projects focusing on quantification of air-bubbles captured in the heart chambers during open-heart surgery.

One of the subprojects (AIRCATCH) is funded by the Fondo EOC-USI (Fondazione Daccò) and the other is funded by the Foundation Fidinam (S. Demertzis, S. Vandenberghe, R. Krause – USI).

3) Analysis of venous drainage in extracorporeal circulation using different types of venous cannulas (E. Ferrari in collaboration with the University of Lausanne).

Coronary Artery Bypass Grafting surgery

The European Registry of Clinical Outcomes after external support of saphenous vein grafts (VEST) after coronary artery bypass grafting coordinated by S. Demertzis (PI) in 8 European centers concluded patient enrollment and is registering the foreseen follow-up interviews up to 5 years after surgery with prospected conclusion in 2026.

Cardiac Valves

1) Analysis of hemodynamic and flow performances of virtual wall-less cannula in minimally invasive cardiac surgery (E. Ferrari).

2) Predictability of failure of surgical mitral valve repair analyzing preoperative imaging using machine learning. Initialization of a common project in collaboration with the USI (Prof. Krause - Euler Institute) (T. Torre, S. Demertzis).

3) Analysis of clinical data and outcome after implantation of transcatheter aortic valves (TAVI) in general for severe aortic stenosis (focusing on alternative access than the femoral artery) and in presence of concomitant significant tricuspid valve regurgitation (E. Ferrari).

4) Bench tests and feasibility study of transcatheter aortic root replacement with different configurations of the devices (E. Ferrari).

5) Analysis of long-term outcomes under different anticoagulation / antiaggregation regimes after TAVI registered in the SWISS TAVI registry (E. Ferrari in collaboration with the University of Bern). 6) Analysis of the radiologically documented position of TAVI-in-TAVI implantations and the corresponding clinical outcomes (E. Ferrari, multicenter study).

Thoracic Aorta

1) Retrospective analysis of aortic size indices and the contribution of aortic length to the risk stratification in patients with

acute aortic dissection type A (S. Grego, S. Demertzis).

2) Analysis of surgical results and clinical mid-term follow-up of patients treated with aortic root replacement or aortic root repair (E. Ferrari).

Cardiac Imaging

Dr. L.A. Leo, PD Dr. A.G. Pavon, Dr. S. Schlossbauer, Dr. A. Caretta, Dr. G. Viani, Dr. V. Viccaro

The Cardiovascular Imaging Research Group focuses on multimodality imaging for the diagnosis and management of cardiac disease (i.e. ischemic heart disease, valvular disease, and cardiomyopathies). A major focus is the development of advanced imaging approaches and artificial intelligence models to improve risk stratification, particularly in non-ischemic cardiomyopathies. Over the past year, the group has published numerous peer-reviewed articles in collaboration with several international institutions. Under the leadership of PD Dr. Pavon, and in close collaboration with the Interventional Cardiology Unit, the group is conducting the TITAN-MRI study, a multicenter interventional trial investigating the role of cardiovascular magnetic resonance (CMR) in patients with non-ST-elevation myocardial infarction, supported by the Swiss National Science Foundation. Another key research line focuses on arrhythmic risk stratification in ischemic and non-ischemic heart disease using novel CMR techniques, funded by the Swiss Heart Foundation. The group also participates in multicenter studies on pericardial diseases, inflammatory cardiomyopathies, and mitral valve prolapse. Following the award of the "Bando Ricercatori Senior EOC" to PD Dr. Pavon, a collaboration with the Department of Infectious Diseases has been established to investigate vascular and myocardial inflammation in patients with HIV, aiming to enable more personalized therapies. The team also provides imaging support to clinical trials coordinated by the Cardiovascular Research Service (SRC) and serves as a core lab for the NAUTRE trial involving 15 international centers. From an educational perspective, the group supervises four Master's theses at the Università della Svizzera Italiana and has supervised two MD dissertations over the past year. In 2025, the

group hosted three fellows who obtained certification from the European Association of Cardiovascular Imaging in advanced multimodality imaging. Moreover, Dr. Leo is the coordinator of the imaging-based cardiac anatomy course for the Master of Medicine at USI. Additionally, Dr. Leo organizes an annual 3D echocardiography course with international participation and contributes to major cardiology congresses. Since last year, she has been a board member of the Swiss Working Group on Cardiovascular Imaging, contributing to the first Swiss congress on advanced cardiovascular imaging. In 2026, PD Dr. Pavon was appointed Early Career Chair of the Society for Cardiovascular Magnetic Resonance. Dr. Leo and PD Dr. Pavon both contribute to key committees of the European Association of Cardiovascular Imaging (EACVI). Finally, the group actively contributes to the scientific and educational activities of national and international cardiology congresses.

Laboratory research

[See CHAPTER III on the Institute for Translational Research.](#)

Imaging Institute of Southern Switzerland (IIMSI)

Prof. Filippo Del Grande, MD
Medical and Scientific Director

The Imaging Institute of Southern Switzerland (IIMSI) includes the Clinic of Radiology (Head: Prof. Dr. med. F. Del Grande), the Clinic of Nuclear Medicine and Molecular Imaging (Head: PD Dr. med. G. Paone) and the Medical Physics Service (Head: Dr. S. Presilla).

CLINIC OF RADIOLOGY

The Clinic of Radiology of the Imaging Institute of Southern Switzerland (IIMSI) offers diagnostic and interventional imaging examinations in the main four sites of the EOC (Bellinzona, Locarno, Lugano, Mendrisio).

The Clinic of Radiology offers a complete coverage of the body imaging, with radiologists divided into subspecialties (musculo-skeletal imaging, oncologic imaging, urogenital imaging, women's imaging, thoracic imaging, abdominal imaging, pediatric imaging, interventional radiology), to enhance specific skills and competence, in order to offer the patients and their referring physicians a highly specialized radiological service. Transversal research topics are based on innovative technology (including applications of artificial intelligence), body composition and evidence based medicine. Longitudinal research topics pertain to the single abovementioned subspecialties. Among the subspecialties, the below mentioned are the most active ones in research, as reflected by their scientific production in terms of publications as well as of projects granted by external funding.

Musculoskeletal imaging

Lead Prof. Dr. F. Del Grande

The radiologists dedicated to musculoskeletal imaging, are conducting research projects, with the objective of improving image quality without prolonging the time of acquisition, with the help of artificial intelligence mediated approaches. Furthermore, since the Clinic of Radiology has been equipped with the latest photon-counting CT technology, some research projects testing the use of acquisitions with lower radiation dose without impairing the image quality are underway. On the MRI side, developments and sequences aiming to a better understanding of anatomy and different features of muscles, tendons, cartilage, ligaments are under evaluation with ongoing studies.

Oncologic imaging and gynecologic imaging

Lead Prof. Dr. S. Rizzo

The radiologists dedicated to oncologic imaging are conducting several research projects with the aim of understanding how imaging-based body composition evaluation is associated with clinically relevant outcomes in cancer patients. With this end, different approaches are under evaluation and are the core of many ongoing research projects, one of which funded by the Swiss Cancer League and dedicated to the effects on body composition of specific treatments in prostate cancer patients. The group dedicated to oncologic imaging is also

involved in national collaborations evaluating the application of artificial intelligence mediated approaches to help CT reporting. Furthermore, technical improvements and protocol changes are under evaluation with the aim of reducing the radiation dose in CT scans, without affecting image quality. On the gynecologic imaging side, it is under evaluation the possibility to analyze the pudendal nerves with functional MRI, and the group leader is actively contributing the update of international guidelines related to gynecological imaging within international societies, such as endometriosis, ovarian cancer, endometrial cancer and infertility.

Uro-genital Imaging

Lead Prof. Dr. R. Wyttenbach

The radiologists dedicated to the urogenital diseases are involved in a multicentric project aiming to find an artificial intelligence based way to detect prostate cancer with MRI.

Breast imaging

Lead PD Dr. S. Schiaffino

The radiologists of the breast imaging team are involved in the research projects of the CSSI (Centro di Senologia della Svizzera Italiana) as well as in international multicenter studies. Part of the team is developing systematic reviews and meta-analyses in the high-risk breast lesions field and is leading or co-leading research studies related to the use of large language models in breast imaging. The group has started a collaboration with ETH Zurich on projects involving advanced X-ray applications in breast imaging.

Interventional radiology

Lead Dr. M.A. Ruffino

The interventional radiologists are conducting monocentric as well as multicentric research projects, with the objective of improving the standard of care for patients undergoing percutaneous vascular and non-vascular procedures for vascular and oncologic diseases. Furthermore, the advanced technology of the Institute allows testing

and using new tools and techniques to treat complex pathologies as aortic dissections and thoraco-abdominal aneurysms.

CLINIC OF NUCLEAR MEDICINE

The Clinic of Nuclear Medicine of the Imaging Institute of Southern Switzerland (IIMSI) offers diagnostic imaging in two sites of EOC (Bellinzona and Lugano) and theragnostic activity in Bellinzona.

PET radiomics and predictive imaging of lymphomas

Prof. Dr. L. Ceriani

Development and validation of new PET metrics, radiomic analysis and artificial Intelligence tools. Collaborations: IELSG, SAKK, IOR, IOSI, Amsterdam University Medical Centre, Federazione Italiana Linfomi, United Kingdom Cancer Research Institute. Integration of PET/CT data, biological and genomic features (i.e. liquid biopsy) using Radiomics, Genomics and Artificial Intelligence tools to model new diagnostic/prognostic approaches. Collaborations: IELSG, SAKK, IOR and IOSI.

Theragnostics

PD Dr. G. Paone

Research activities in theragnostic field for the Therapy working group of the Swiss Society of Nuclear Medicine (SGNM) particularly focused on prostate cancer and neuroendocrine tumors. Collaborations with Universitatsspital Bern, Novartis/AAA. Personalized dosimetry studies focused on selective internal radiotherapy with Y-90. Collaborations with Istituto Nazionale Tumori Milan, Boston Scientific and Mirada group.

Evidence-based nuclear medicine

Prof. Dr. G. Treglia

Evidence-based documents and guidelines on different indications of PET/CT. Prevalence and clinical significance of incidental findings at PET imaging with different tracers.

PET imaging for infection and inflammation
Collaborations: European Association of Nuclear Medicine, EORTC, University of Lausanne, University of Brescia, University of Mashhad, Università Cattolica Roma, Candiolo Cancer Institute, Ospedali Galliera Genoa, University of Groningen and University of Louvain.

Nuclear Medical Imaging for Breast Cancer

Dr. M. Cuzzocrea

Research activities in the field of nuclear medical imaging and new tracers, focusing in particular on breast cancer and guidance for breast surgery. Collaborations with IOSI, CSSI-EOC, Università Vita-Salute San Raffaele Milan.

MEDICAL PHYSICS SERVICE

The Medical Physics Service of the EOC operates across all hospital sites, ensuring radiation protection governance throughout the institution. Its core activities include supporting the Clinics of Radiology and Nuclear Medicine in imaging optimization and regulatory compliance, as well as activities in Radiation Oncology treatment planning, dosimetry, and quality assurance. The Service contributes to patient coworker and public safety, treatment quality, and continuous technological and process improvement across EOC concerning radiation protection.

Advanced Patient dose monitoring in radiology

- Automated CT Dose Monitoring and Imaging Protocol Harmonization (Dr. L. Buonincontri). This project focuses on the implementation of a centralized, automated CT dose monitoring system across EOC. Real-time monitoring of CT acquisitions enables early identification of dose exceedances based on national and internal Diagnostic Reference Levels. The initiative supports protocol harmonization across hospital sites through cross-site comparison, interactive dashboards, and

structured analysis of dose variability.

- Peak Skin Dose Monitoring in Interventional Radiology (Dr. L. Buonincontri). This activity addresses the implementation and validation of Peak Skin Dose (PSD) estimation for C-arm systems used in interventional radiology and cardiology procedures. The reliability of software-based PSD calculations is assessed through structured validation and comparison with direct dosimetric measurements. The objective is to establish a clinically applicable framework for skin dose monitoring.

AI-Driven Innovation and Process Improvement in Radiotherapy Planning

In collaboration with the IOSI Clinic of Radio-Oncology

- MR-Only Radiotherapy and AI-Based Synthetic CT (Dr. L. Milan). The activity focuses on the clinical implementation and validation of MR-only radiotherapy workflows using AI-based synthetic CT (sCT). Activities address image accuracy, geometric reliability, and dose calculation robustness compared to conventional CT-based planning. Particular attention is given to managing challenges related to sCT artifacts and ensuring safe clinical integration.
- AI-Based Dose Prediction (Dr. M.A. Piliero). This activity focuses on the validation and clinical assessment of AI-based dose prediction models to support radiotherapy planning. The accuracy, robustness, and practical applicability of AI-driven approaches are systematically evaluated to enhance planning efficiency, consistency, and overall plan quality. A key objective is to ensure the safe and controlled integration of AI tools into routine clinical workflows.

Institute of Pediatrics of Southern Switzerland (IPSI)

Prof. Giacomo Simonetti, MD

Medical and Scientific Director

The Istituto Pediatrico della Svizzera Italiana (IPSI), headquartered in Bellinzona, is the reference center for specialized and highly specialized pediatric care in Italian-speaking Switzerland. IPSI provides comprehensive care for pediatric patients from birth through adolescence, offering highly specialized treatments. Its departments of general pediatrics, neonatology, cardiology, endocrinology, neurology, gastroenterology, hematology-oncology, and nephrology cover a broad spectrum of clinical conditions, ranging from acute illnesses to chronic and complex diseases, as well as additional areas of advanced pediatric care. With its family-centered care approach, IPSI distinguishes itself by recognizing the central role of the family in the care pathway of neonates, infants, children, and adolescents, ensuring clear communication with parents and caregivers, their involvement in clinical decision-making, and the well-being of pediatric patients. Within a single organizational structure, IPSI integrates inpatient and outpatient pediatric clinical activities with clinical research and pre- and postgraduate educational training of healthcare professionals. Highly active and a fundamental component of IPSI's institutional activities, clinical research at IPSI is conducted in compliance with Swiss and international ethical and regulatory requirements. It is carried out in collaboration with national and international centers, and with the support of the research infrastructures of EOC and SwissPedNet, a Swiss-based network that promotes pediatric clinical research in Switzerland. We participate in registries, observational and interventional studies, both

single-center and multicenter, at national and international levels. Particular attention is paid to the protection of minors, with the primary aim of improving the quality and safety of pediatric care, the well-being of pediatric patients and their families, and of promoting evidence-based clinical practices. Closely integrated with daily clinical care, IPSI research unit is led by Prof. Dr. G. Simonetti (Head of the Research Unit), coordinated by PD Dr. F. Vanoni and PD Dr. B. Goeggel Simonetti (co-responsible of the Research Unit), and consists of several research physicians and one study coordinator (MSc L. Pedrotti). Our research activities encompass the main areas of pediatric research: cardiology and nephrology, general pediatrics, infectious diseases, neuropsychiatry, onco-hematology, pediatric rheumatology, pediatric emergency medicine, and pediatric surgery. The principal areas of research for each subspecialty are:

Cardiology-Nephrology

Dr. C. Leoni-Foglia, Dr. A. Stefani-Glücksberg, Prof. Dr. M. G. Bianchetti and Prof. Dr. G. Simonetti

In 2025, IPSI initiated, as sponsor, a single-center study evaluating the performance and acceptance of a cuffless blood pressure measuring medical device in the young population (IPSI-HYPE-001). The study aims to compare the 24-hour Ambulatory Blood Pressure Monitoring (24-hour ABPM), which is the gold standard for blood pressure monitoring, with a cuffless blood pressure measuring medical device, a promising

technique that has recently entered the market, in order to assess its performance not only in blood pressure monitoring, but also in the classification of hypertension in the young population. IPSI also currently participates in two international pediatric cardiology registries on rare diseases (Pediatric Brugada Registry and International Calmodulin registry) and in the Swiss Pediatric Renal Registry. Moreover, in collaboration with the pediatric nephrology of Bern, Basel, Geneva, and the Swiss Working Group of Pediatric Nephrology, we are involved in the development of a new Swiss Children Renal Registry, that includes children with chronic kidney diseases.

General Pediatrics

Prof. Dr. M.G. Bianchetti, Prof. Dr. G. Simonetti, PD Dr. F. Vanoni

In 2025, the results of the National Survey Study on Pediatric Nutrition (MENUkids-CH), in which we participated from 2020 to 2025, were published by the Federal Office for Food Safety and Veterinary Affairs (FSVO) of the Swiss Confederation. Thanks to this study, Switzerland has, for the first time, a comprehensive national overview of the diets of children and adolescents. This will enable Switzerland to develop recommendations based on the nutrition of its own population, without necessarily relying on data from other countries. After successfully completing the study on fever phobia in 2025, in collaboration with USI Lugano, the IPSI research unit is currently developing a new protocol as a follow-up to this study. Moreover, thanks to its close collaboration with USI, and being aware of the fundamental role of the single pediatric patient and of the family well-being, IPSI is developing a research protocol on patient biographies, which centers pediatric care with an individualized approach.

Infectious diseases

PD Dr. L. Kottanattu

We are currently involved in a randomized controlled non-inferiority trial of placebo versus macrolide antibiotics in children with Community Acquired Pneumonia (CAP) infected with *Mycoplasma Pneumoniae*.

The aim of this study is to demonstrate the non-inferiority of macrolides versus placebo, with the general objective of decreasing the resistance of *Mycoplasma Pneumoniae* to macrolides. This study is being conducted in close collaboration with SwissPedNet and with other Swiss hospitals. We also currently participate in three pediatric infectious disease registries: Diagnosis of Tuberculosis in Swiss Children (CITRUS), Registry on Respiratory syncytial virus (RSV EpiCH), and the Swiss Study of HIV mother and Child Cohort (MoCHIV).

Neurology

PD Dr. B. Goeggel Simonetti, Prof. Dr. G.P. Ramelli

IPSI currently participates in a randomized multi-center clinical study: High Dose Steroids in Children With Stroke and Unilateral Focal Arteriopathy: Paediatric Arteriopathy Steroid Aspirin (PASTA) Project. This study aims to show that children with first stroke event due to unilateral focal cerebral arteriopathy (FCA) treated with a combination of high dose steroid and aspirin, will have better and quicker recovery of arteriopathy, better clinical functional outcome, and less recurrence compared to children treated with aspirin alone. IPSI participates in the following multi-center registries: Swiss Cerebral Palsy Registry (SwissReg-CP), Swiss Registry for Neuromuscular Disorders (Swiss-Reg-NMD), Swiss neuropaediatric stroke registry (linked to the International Pediatric Stroke Study), and the Swiss Pediatric Inflammatory Brain Disease Registry (Swiss-Ped-IBrainD), and the Swiss Neonatal Network & Follow-up Group. Thanks to our contribution, together with that of other centers participating in the registry, SwissReg NMD concluded the year 2025 with 470 patients enrolled in the registry. During 2025, based on the results obtained, the registry team published two scientific articles and was able to respond to numerous requests from researchers, physicians, industrial partners, patient organizations, and families. Furthermore, in 2025 IPSI participated in a project on early diagnosis of autism (Auto-Play-D) in collaboration with SUPSI. We are also currently participating in a single-center

study regarding early detection and intervention for Swiss-Italian children with autism spectrum disorders.

Onco-hematology

PD Dr. M. Rizzi, Dr. P. Brazzola

Highly active in oncology studies, IPSI collaborates with the Swiss Pediatric Oncology Group (SPOG) with the shared aim to offer all children and adolescent with cancer the best and newest treatments. During 2025, IPSI participated in 33 oncology studies and registries. These include studies and registries on both well-known and rare pediatric oncological diseases such as kidney tumors, rare solid tumors, sarcomas, brain tumors, leukemias, lymphomas, and many others. We also participate in the Swiss Pediatric Cancer Registry, in close collaboration with Bern. In the field of pediatric hematology, we are involved in a non-interventional study on the treatment of patients with hemophilia A with and without inhibitors (EMILL, Roche). This prospective non-interventional study (NIS) will seek to better understand the long-term effectiveness of Emicizumab prophylaxis in pediatric, adolescent, adult and elderly patients with Hemophilia A with and without FVIII inhibitors under real-world conditions.

Rheumatology

PD Dr. F. Vanoni

In 2025 IPSI participated in an international multicenter randomized controlled trial on Juvenile Idiopathic Arthritis (JIA), a rare pediatric rheumatologic disease: Producing an Arthritis Value-Framework with Economic Evidence - Paving the Way for Rare Childhood Disease (PAVE). One of the objectives of this study was to enhance the understanding of the impact of JIA on individuals and society. We are also involved in the JIRcohort registry, an international registry collecting data on Juvenile Inflammatory Rheumatism. IPSI is currently collaborating with colleagues in Italy and SUPSI to develop a new study on artificial intelligence and Chronic Recurrent Multifocal Osteomyelitis (CRMO), a rare disease.

We also strictly collaborate with the CHUV for the development of observational prospective and retrospective studies on treatment and outcome in inflammatory diseases.

Pediatric emergency medicine

Dr. G. Gualco, Dr. T. Corigliano

Thanks to the fruitful collaboration established in previous research projects, IPSI has once again collaborated with BC Children's Hospital in Canada on a research project exploring parents and children's views on exceptions to informed consent in research. At a global level, IPSI is the fourth-highest recruiting center in terms of participant enrollment.

Pediatric Surgery

Dr. M. Mendoza, Dr. V. De Rosa, Dr. E. Montaruli

We are currently collaborating with the University Hospital of Basel to develop a research project concerning the validation of the Italian and French Gait Outcomes Assessment List for children with lower Limb Differences (GOAL-LD).

Pediatric research, often underrepresented worldwide, is of crucial importance for improving the quality of life of children, adolescents, and their families. IPSI is committed to actively contributing to the advancement of pediatric research at both national and international levels, addressing unmet medical needs in children and adolescents and generating robust scientific evidence to improve clinical practice. In the context of the Master medical school, in May 2025 we completed and handed in seven master's theses. We are also currently involved in five master thesis supervision and promotion of clinical research.

Institute of Pharmacological Sciences of Southern Switzerland (ISFSI)

Prof. Alessandro Ceschi, MD, MSc
Medical and Scientific Director

The Institute of Pharmacological Sciences of Southern Switzerland (ISFSI) operates with the mission of advancing the safe, effective and evidence-based use of medicines through an integrated clinical, scientific and pharmaceutical approach. Its activities are structured around two core areas. The Division of Clinical Pharmacology and Toxicology includes highly specialized services such as the Pharmacogenetics Unit, the Regional Pharmacovigilance Centre, the Drug Centre and the Research Unit, while the Central Pharmacy Service encompasses Hospital Pharmacy, Clinical Pharmacy and Public Pharmacy. Through close collaboration with healthcare professionals, ISFSI provides expert support aimed at ensuring the appropriate use of medicinal products across all care settings. By combining clinical expertise, pharmacovigilance, research and pharmaceutical services, the Institute strives to optimize drug therapy, improve therapeutic outcomes, reduce the risk of adverse drug reactions and promote the efficient use of healthcare resources.

The QUADRATIC ('QUality Adverse Drug Reaction AcTIve Control') project, conducted throughout 2024, focused on the development of natural language processing (NLP)-based methods for the automated detection of suspected adverse drug reactions in electronic health records. Building on this experience, in 2025, ISFSI further consolidated its strategic

investment in artificial intelligence applied to pharmacovigilance through participation, together with the Istituto Dalle Molle di Studi sull'Intelligenza Artificiale (IDSIA USI-SUPSI, Lugano), in the ongoing Swiss National Science Foundation (SNSF)-funded project 'Medical, Multilingual and Privacy-Preserving Natural Language Processing (M2P2-NLP)'. The project addresses key methodological challenges in the secondary use of clinical notes, including data privacy constraints, limited availability of annotated datasets within specific clinical domains and the multilingual nature of the Swiss healthcare system. Within M2P2-NLP, ISFSI contributes its pharmacovigilance expertise by developing and evaluating NLP-based approaches for the identification of adverse events associated with immunotherapeutic agents through the systematic analysis of electronic health records of oncological patients treated at the Ente Ospedaliero Cantonale, thereby strengthening active pharmacovigilance in oncology.

In 2025, ISFSI, in collaboration with Lugano Istituti Sociali (LIS), conceived, developed, and authored a study aimed at improving the appropriateness and the safety of pharmacotherapy in nursing home residents. The study, financially supported by LIS, will be conducted throughout 2026. The Research Unit of ISFSI led the study design, methodological framework, and protocol development, while the Division of Clinical Pharmacology is responsible for

implementing the intervention. The latter comprises individualized medication reviews conducted by clinical pharmacologists, face-to-face feedback to nursing home healthcare staff responsible for managing residents' pharmacological therapies, and targeted educational sessions addressing common prescribing challenges. The residents' treating clinicians, maintaining standard care and minimizing risk, will implement any medication adjustments. The study will follow a pre-post design, with each resident serving as their own control. By integrating clinical pharmacology expertise directly into routine care, the study is expected to generate actionable evidence that supports more appropriate and safer prescribing practices. For LIS, the project offers both immediate and long-term benefits, including enhanced resident safety, improved medication management processes, and strengthened inter-professional collaboration. Furthermore, it establishes a foundation for a sustainable, ongoing partnership with ISFSI, fostering continued scientific support and innovation in pharmacotherapy optimization within the cantonal long-term care system.

In 2025, ISFSI continued its collaboration with Swissmedic on signal detection, the systematic analysis of spontaneous adverse drug reaction reports to identify potential safety issues. Two additional rounds of disproportionality analyses were conducted in VigiBase, targeting medicinal products for which periodic safety update report (PSUR) obligations had lapsed. No new signals requiring regulatory action were observed. This activity reflects ISFSI's sustained contribution to national post-marketing pharmacovigilance, ensuring timely, evidence-based surveillance of medicinal product safety.

ISFSI further expanded its research activities in pharmacovigilance through a series of disproportionality analyses based on VigiBase, with a particular focus on medication safety during pregnancy. In collaboration with thoracic oncologists from the Oncology Institute of Southern Switzerland (IOSI) and international partners, ISFSI conducted the study 'Small Molecules for Thoracic Cancers during Pregnancy:

A Combined VigiBase and Systematic Review Analysis', integrating global pharmacovigilance data with a systematic literature review to characterize maternal and neonatal outcomes associated with targeted anticancer therapies. Additional collaborative projects with the Centre Hospitalier Universitaire Vaudois (CHUV) evaluated pregnancy-related adverse drug reactions associated with Janus kinase inhibitors and cystic fibrosis transmembrane conductance regulator modulators, contributing real-world evidence on the reproductive safety of emerging therapeutic classes. Moreover, in partnership with the UK Teratology Information Service (Newcastle upon Tyne Hospitals NHS Foundation Trust), ISFSI performed a disproportionality analysis investigating the safety of pregabalin exposure during pregnancy, providing further insight into congenital anomaly reporting patterns and supporting ongoing risk evaluation.

Beyond pregnancy-related research, ISFSI conducted additional pharmacovigilance studies addressing clinically relevant therapeutic questions in other patient populations. In collaboration with the Neurocentro of Southern Switzerland, a large-scale VigiBase analysis assessed whether the concomitant use of monoclonal antibodies for comorbid conditions influenced the reporting of lack of efficacy of anti-calcitonin gene-related peptide monoclonal antibodies in migraine, providing preliminary reassurance regarding real-world treatment effectiveness. Furthermore, an ongoing collaborative project with the Institute of Pediatrics of Southern Switzerland investigates adverse drug reactions associated with antihypertensive medications in the paediatric population, aiming to strengthen the evidence base for cardiovascular pharmacotherapy safety in children. Together, these initiatives highlight ISFSI's strategic use of global pharmacovigilance data to address emerging safety questions and to support evidence-based clinical decision-making across diverse therapeutic areas.

In 2025, ISFSI also continued its longstanding collaboration with the Stroke Unit of the Ente Ospedaliero Cantonale,

contributing to a large multicentre international study within the EVA-TRISP registry evaluating the impact of prior antiplatelet therapy on outcomes in patients with anterior circulation large vessel occlusion stroke treated with direct endovascular therapy. Through advanced statistical modelling and propensity score matching, the study provided real-world evidence suggesting that prior antiplatelet therapy was safely associated with improved functional outcomes at 90 days without increasing the risk of symptomatic intracranial haemorrhage or mortality, thereby contributing to the ongoing debate on optimal stroke pharmacological management. In parallel, a new collaboration was initiated with the Emergency Department of the Ente Ospedaliero Cantonale through the design of the HOPE-ED ('Determinants of Hospitalization among Elderly Poly-medicated Patients Presenting at a Swiss Emergency Department') study. This retrospective observational project aims to investigate the prevalence and clinical impact of polypharmacy, potentially inappropriate prescribing, drug-drug interactions and adverse drug reactions in older adults presenting to the emergency setting, while integrating artificial intelligence-based predictive modelling to identify factors associated with hospital admission and to support safer, more personalized emergency care pathways for an aging population.

At the national level, ISFSI has further strengthened its collaborative research network through an ongoing partnership with ETH Zürich in the study 'Data analysis of routinely collected health data to describe opioid prescribing and opioid-related harm in Swiss hospitals'. This project leverages large-scale routinely collected hospital data from 2020 to 2024 to characterize patterns of in-hospital opioid prescribing, prolonged exposure, discharge prescriptions and indicators of opioid-related harm, including naloxone administration and poisoning diagnoses. In parallel, ISFSI has continued its international engagement as an official sentinel centre of the European Drug Emergency Network Plus (Euro-DEN Plus), a multicentre initiative that systematically collects standardized data on emergency

department (ED) presentations for acute recreational drug toxicity across Europe and neighbouring countries, providing a structured resource for toxicological surveillance and epidemiological research. Within this framework, in 2025, ISFSI contributed to several collaborative studies, including an analysis of ED presentations associated with acute 3,4-methylenedioxymethamphetamine toxicity, exploring the role of co-intoxication patterns and patient sex; a large evaluation of ED presentations related to illicit and prescription opioid abuse across Europe; and a longitudinal investigation assessing temporal changes over a 10-year period in clinical features and severity among patients presenting to the ED with acute cannabis toxicity.

Institute of Laboratory Medicine (EOLAB)

Dr. Mauro Imperiali, PhD

Director (from January 2026)

Dr. Franco Keller

Director (until December 2025)

EOLAB was set up to meet the requirements of modern clinical laboratory medicine. EOLAB recognize the importance of research into its activity to be continuously up-to-date and to offer the best service and collaboration to all medical department. During 2025 EOLAB continuously collaborate with EOC Biobank providing infrastructure, logistic support and technical staff. In the 2025 EOLAB activate 5 new collaboration studies with EOC researchers for a total of 19 collaboration studies in progress during 2025. The EOLAB specialists are actively involved in several nationally and international scientific society boards and scientific working groups as soon as involved as members of scientific committee, speakers and session chairs in national and international congress.

Microbiology Service (SMIC)

In 2025, the Microbiology Service (SMIC) further strengthened its role in research, education, and active participation within the national and international scientific community. The activities carried out during the year reflect a growing commitment to innovative project development, interdisciplinary collaboration, and contributions to major scientific networks in the field.

Research activities, collaborations and Training:

- ATLAS Study: Continued participation in the international ATLAS multicenter project, contributing to global surveillance data on antimicrobial resistance.

- Early ADAPT Study (with the Infectious Disease Service and HUG): Launch of a multicenter study evaluating early adaptation of antibiotic therapy in ventilator-associated pneumonia following the implementation of a respiratory multiplex PCR assay.
- INFLUENT Study (with the Infectious Disease Service): Participation to a Swiss multi-center, randomized, placebo-controlled trial on the efficacy of baloxavir marboxil to reduce time to clinical improvement in adult patients hospitalized for influenza.
- B-Free Study (with the Infectious Disease Service): Evaluation of unboosted, newer generation antiretroviral regimens as effective and safer maintenance therapy for treatment experienced people living with HIV, aiming to reduce drug-drug interactions in an aging population.
- Collaboration with IMU Zürich: Development of a Vitek-2 based algorithm for the early detection of metallo-carbapenemase-producing *Pseudomonas aeruginosa*, with potential applications in rapid diagnostics and antimicrobial stewardship.
- Collaboration with the Infectious Disease Service: Investigation on *Streptococcus pneumoniae* infections in Southern Switzerland and their prevention. Co-supervision of a Master's thesis at USI on the optimization of *Neisseria gonorrhoeae* diagnosis.
- Supervision of a TAB school diploma project focused on evaluating a new tool to optimize biopsy processing.

- Swiss National Legionella Reference Centre. SMIC is home to the Swiss National Reference Centre for Legionella (CNRL), which is mandated by the Federal Office of Public Health. The CNRL contributes to national collaborations and international projects on the epidemiology and spread of legionellosis.

Medical Genetics Service

The Medical Genetics Service actively supports clinical and translational research by providing advanced laboratory analyses in the fields of molecular genetics and cytogenetics. Research activities include molecular genotyping, conventional karyotyping, and molecular cytogenetic techniques such as fluorescence in situ hybridization (FISH) and chromosomal microarray analysis (SNP-array).

In 2025, the Service collaborated with IOR, IRB, and research groups of the EOC, contributing genetic expertise to multidisciplinary research projects and strengthening institutional research networks.

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Cantonal Institute of Pathology (ICP)

Prof. Luca Mazzucchelli, MD

Medical and Scientific Director

The “Istituto Cantonale di Patologia - EOC” (ICP) is actively involved in various research projects which aim to identify new methods to be introduced into routine diagnostics or to identify new markers that can be used both in prognosis and in predicting the efficacy of chemotherapeutic treatments: ICP research is essentially aimed at the molecular characterisation of diseases, mainly those in the field of oncology. IOSI/IOR are privileged research partner of the ICP, with particular emphasis on cancers of the gastrointestinal tract and thoracic cavity, hematolymphoid neoplasms and urogenital cancers. Currently, ICP participates in almost 50 clinical trials and collaborates with various Swiss and international pathology institutes.

Digital Pathology and Artificial Intelligence

L. Mazzucchelli, V. Martin, F. Jauk

Digitalization of pathology offers new opportunities to improve clinical service but also to develop research projects. The Institute of Pathology is currently going through a gradual transition to digital pathology. In parallel, working groups have been formed in collaboration with Delle Molle Institute for artificial intelligence to develop new diagnostic algorithms but also artificial intelligence applications to exploit the data that will be produced. The potential is enormous and the ICP remains open and available for any project in collaboration with other institutes/departments EOC. Specifically, the Institute is working on

a project to efficiently reconstruct the histological cross-sections of large tumours that do not fit a single microscope slide and thus have to be split in multiple smaller fragments. This reconstruction process is currently performed by pathologists in an approximate manner. An AI-assisted tool would allow more accurate assessment of important parameters useful in patient management, such as the relationship of a tumor to resection margins or tumor regression in patients receiving neoadjuvant treatment. Such a tool has enormous potential in terms of the increased quality of anatomo-pathological diagnoses, saving time in issuing diagnoses, improving patient treatment, and standardizing important parameters evaluated in clinical trials. A grant application has recently been approved to Innosuisse. An additional collaborative project aims to develop and validate a robust deep learning-based classifier for a more precise and reproducible diagnosis of nodal marginal zone B-cell lymphoma versus mimickers. This will be achieved by utilizing a multimodal dataset to train Deep Learning Models. The multimodal dataset includes patients' clinical annotations, extensive molecular profiling (exome sequencing and DNA methylation), centralized pathology review consensus diagnosis and annotations, along with high-dimensional data from hematoxylin-eosin and immunohistochemistry-stained whole-slide imaging. State-of-the-art Multimodal Deep Learning techniques will be adopted, also relying on Self-Supervised paradigms that enable learning powerful pattern recognition

The outcomes of this comprehensive interdisciplinary approach could impact on the future lymphoma classification, and also pave the way for similar applications in other lymphomas and solid tumors. By improving diagnostic accuracy and complementing the efforts of pathologists and clinicians, these advancements may improve decision-making and therapeutic strategies, ultimately benefiting patients. A grant application has recently been submitted.

Analysis of circulating tumour DNA in patients with non-small cell lung cancer (NSCLC) undergoing immunotherapy with checkpoint inhibitors

M. Frattini

For patients with metastatic lung cancer and a high expression of the immunological marker PD-L1, therapy with the immune checkpoint inhibitor pembrolizumab or atezolizumab is the standard therapy. Recent phase II clinical trials and interim analysis from phase III trials have demonstrated a great benefit from the addition of tiragolumab (another checkpoint inhibitor) to atezolizumab in patients characterized by PD-L1 expression >50%. Today, the response of these patients to therapy is checked every 9-12 weeks using computer tomography. This means that in a substantial proportion of patients, tumour progression is only detected when the general condition is worst and further tumour therapy is no longer possible. Recent data seem to indicate that a quantitative decrease in the analysis of DNA in plasma (ctDNA) correlates with the response to immunotherapy. The aim of the study is to use the quantitative progression of ctDNA to optimise the therapy. Patients with an early clearance in ctDNA (>90%) compared to the initial level will continue with immunotherapy with the combination of atezolizumab and tiragolumab checkpoint inhibitors. Patients without a corresponding drop in ctDNA will be randomly assigned to one of two treatment groups: either they will also be further treated with atezolizumab+tiragolumab alone or they will receive platinum-based chemotherapy in addition to the combination of checkpoint

inhibitors. With this study, we want to investigate whether early intensification of therapy in patients with insufficient drop in ctDNA after 2 cycles of immunotherapy may lead to a better prognosis and we want to investigate whether ctDNA measurement is a suitable biomarker for risk stratification and therapy adjustment. This is a study co-directed with IOSI (Dr. P. Froesch), more than 10 Swiss centres (through SAKK involvement) and more than 10 European centres (from France, Spain, Germany, Italy). The trial has received the financial support of OncoSuisse/Krebsliga and will receive some funds from Roche.

Sensitive diagnosis, prognosis and treatment planning on open platform of glioma brain tumours

M. Frattini

Brain tumors are one of the most aggressive and common cancers. About 28% of brain tumors are gliomas; glioblastoma (GBM) subtype is found in 17% out of this group. The classification and the treatment of gliomas is strictly correlated to the evaluation of several molecular markers (i.e. mutations in IDH1, IDH2, hTERT, H3F3A, HIST1H3B genes; MGMT (O6-methylguanine DNA methyltransferase) promoter methylation). The genetic status of IDH1, IDH2, H3F3A and HIST1H3B is fundamental for a proper classification of the tumor; MGMT promoter methylation status has clinical relevance because patients with hypermethylation benefit more from the combination of chemo (based on temozolomide) and radiotherapy; finally, TERT promoter genetic status is linked to adverse prognosis and to diagnosis of oligodendroglioma or glioblastoma. Nowadays, the available molecular assays are essentially made on tissue samples and suffer from method variation, low sensitivity and technical barriers. On these bases, the main purpose of our project is to improve these analyses providing a new, more sensitive and faster real-time PCR based methodology in collaboration with PentaBase ApS, a Danish company with which we have excellent collaborative relationships from years. In collaboration with INSI and IOSI, liquid biopsies will be

collected from patients affected by gliomas and evaluated with the newly developed assays.

Personalized cancer monitoring

M. Frattini

Monitoring of cancer progression is mainly done by bi-monthly imaging of the tumor. Cancer patients can be better treated if their cancers are monitored closely. PCR-based genetic analysis of cancer specific mutations is a fast, inexpensive alternative. However, this method is only available for patients carrying typical (hotspot) mutations in a few cancers. Using simple blood samples, we will enable sensitive and inexpensive monitoring of all cancers for true personalized treatments. Based on next generation sequencing (NGS) data from the clinics from the solid, diagnostic biopsy, in collaboration with a Danish company we will design, manufacture and validate tumor- and patient specific, real-time PCR-based monitoring and ctDNA purification assays for blood samples. We will sell at least twenty assays per patient to the clinic, allowing for bi-weekly monitoring and early response to resistance acquisition of tumors.

Investigation of the role played by HLA typing and PD-L1 polymorphisms on the efficacy of first-line immune checkpoint inhibitors in non-small cell lung cancer patients with PD-L1 overexpression

M. Frattini

Immune checkpoint inhibitors (ICI) are a well-established first-line treatment for patients characterized by a PD-L1 tumor proportion score $\geq 50\%$ and without alterations in the following targetable molecular markers: EGFR, ALK, ROS1, RET. The evaluation of a PD-L1 expression $\geq 50\%$ and the absence of mutations in the aforementioned oncogenic drivers are two essential conditions for the treatment with ICIs. However, in a non-negligible portion of patients, these features alone could not be enough for the prediction of a durable good response to this treatment. The aim of

the proposal is to investigate how intrinsic or acquired genetic characteristics could influence response to immunotherapies in advanced NSCLC. In particular, the focus will be on the influence of HLA and PD-L1 genes polymorphisms and of KRAS mutations on the response to ICIs. Patients, under the supervision of co-applicant Dr. P. Froesch will be enrolled at IOSI and at the Kantonsspital Graubünden of Chur, and to speed-up the recruitment also in two Italian centers with which there is a long and fruitful collaboration (Ospedale Nuovo, Legnano, Milan, Italy and Humanitas Hospital, Catania, Italy). The project received partial financial support from Fondazione Ticinese contro il Cancro

Helicobacter pylori resistance to clarithromycin and levofloxacin in the Ticino Resident Population

S. Epistolio, R. Sarro, L. Giudici

The effectiveness of *Helicobacter pylori* (Hp) eradication therapy depends on the combination of at least two antibiotics and proton pump inhibitors, administered over a sufficiently long period (10-14 days). To improve the eradication rate— which is approximately 70% in first-line therapy— and to avoid unnecessary treatments with potential side effects, an antibiogram is increasingly being requested. However, this analysis is time-consuming, logistically demanding, and depends on the successful cultivation of the bacterium, which occurs in only 50-60% of cases. At ICP, we have validated a molecular pathology test based on the Real-Time PCR method, using formalin-fixed paraffin-embedded biopsy samples, to detect potential Hp resistance to clarithromycin and levofloxacin. These two antibiotics have Hp resistance rates as high as 30% in Europe. A retrospective study on gastric biopsies is currently underway to determine the prevalence of *Helicobacter* antibiotic resistance among patients residing in Ticino and to assess whether resistance rates have changed over the years. This study is funded by the Institute's Scientific Fund

Department of Medicine EOC

Brenno Balestra, MD

Head of Department

Prof. Pierpaolo Trimboli, MD

Head of Local Research Unit

The Department of Medicine of EOC serves as a hub for cutting-edge research and clinical innovation. Dedicated to improving patient outcomes and advancing medical knowledge, the department supports and coordinates research initiatives across diverse disciplines through its Local Research Unit (LRU). This document outlines the department's scientific activities and highlights the ongoing research conducted by its various groups and units. Each initiative reflects the department's commitment to fostering a culture of scientific excellence and multidisciplinary collaboration. These research efforts not only expand scientific knowledge but also translate into tangible benefits for patients and the broader community. By promoting interdisciplinary collaboration and maintaining a patient-centered focus, the department continues to drive progress across multiple medical fields.

General Internal Medicine

Prof. Dr. M. Arrigo, Dr. M. Mombelli, Dr. B. Balestra, Prof. Dr. L. Gabutti, PD Dr. S. Györik-Lora, PD Dr. O. Giannini, Prof. Dr. A. Ogna, Prof. Dr. M. Pons

The research focus of Prof. L. Gabutti includes the appropriateness of care, particularly in relation to medication prescriptions such as antibiotics, antipsychotics, benzodiazepines, and statins. Additional research areas include the investigation of risk factors that contribute to barriers in healthcare access and the exploration of social prescribing as a therapeutic tool. His group is also studying the

cardiovascular effects of dietary salt intake, the circadian rhythm of urinary electrolyte excretion, and the impact of air pollution and heavy metals on vascular health.

The INFLUENT study is a Swiss multicentric double blind randomized placebo-controlled clinical trial assessing the effect of the antiviral baloxavir marboxil on time to clinical improvement in adult immunocompetent patients admitted to the hospital with severe influenza. The study is an Investigator initiated clinical trial promoted by the University Hospital of Geneva and supported by Swiss National Science Foundation. Patients' enrolment started during the 2024-2025 influenza season and will continue for three consecutive seasons: The study is conducted by Dr. Mombelli (local PI) in collaboration with the Service of Infectious Diseases (Prof. E. Bernasconi and Dr. P. Faré).

Infectious Diseases

Prof. Dr. L. Elzi

The division's most significant research collaboration continues to be the Swiss HIV Cohort Study (SHCS) (www.shcs.ch), one of the world's largest epidemiological and clinical studies in the field of HIV. Within this framework, the unit is involved in several epidemiological and clinical studies.

The HIV Cardio-Renal and Metabolic complications (HIVCream) project was initiated as a pilot study supported by an unrestricted pharmaceutical grant (Dr. B. Barda, PD Dr. M. Bongiovanni). This project aims to enhance the multidisciplinary management of people living with HIV

(PLWH), with active surveillance for cardiovascular comorbidities using a user-friendly, cost-effective algorithm.

Additionally, international studies conducted at our division are testing the antiretroviral dual therapy islatravir/doravirine, with reduced islatravir dosage to minimize the risk of lymphocytopenia.

An antibiotic stewardship intervention to reduce carbapenem use in hospitals resulted in a successful >15% reduction in carbapenem consumption (PD. Dr. M. Bongiovanni et al.)

Nephrology

Prof. Dr. P. Ferrari

Our group has demonstrated prolific research in chronic kidney disease-mineral bone disorder (CKD-MBD), artificial intelligence (AI), and innovations in dialysis and transplant care.

Dr. Bellasi's leadership in CKD-MBD is evident through key publications, including comprehensive reviews on its pathophysiology and the clinical management of peripheral arterial disease. He also contributed to a major update on calciphylaxis diagnosis and led a national survey on managing CKD-associated osteoporosis. A significant achievement was his proof-of-concept study demonstrating the use of AI to predict acute kidney injury and its progression to acute kidney disease using electronic health records. His research extended to peritoneal dialysis care, the sodium load of novel antibiotics, and inclisiran for hypercholesterolemia in CKD patients.

In transplantation, Prof. Ferrari led a pivotal international study analyzing the evolution and practices of kidney paired donation programs, providing a framework to optimize these life-saving exchanges.

Our research laboratory, integrated with IRT, advanced the understanding of kidney injury mechanisms through cutting edge single cell genomics (Dr. A. Rinaldi). Key achievements include a detailed molecular atlas of thrombotic microangiopathy and uncovering how PCK1 supports mitochondrial health to prevent kidney damage. We also developed a transfer learning bioinformatic framework that improves the interpretation of RNA seq data of complex kidney disorders.

Gastroenterology and Hepatology

Prof. Dr. T. Greuter,

PD Dr. B. Terziroli Beretta-Piccoli

In gastroenterology, our group significantly contributed to new findings with key publications in the field of eosinophilic esophagitis and inflammatory bowel disease. Numerous high-impact articles about treatment, long-term follow-up and pathogenesis of these diseases have been published during the last year. In addition, we have started at our center with several clinical studies including the Swiss IBD cohort study, which is co-lead by Prof. Greuter, the Swiss EoE cohort study, phase IV studies (evaluating a JAK inhibitor in the treatment of ulcerative colitis) and two phase III randomized controlled trials (evaluating an anti-TL1A antibody in the treatment of Crohn's disease and ulcerative colitis). More recently, Prof. Greuter moved his basic science research group from Zurich to the Ticino. In the lab, his group will study early mechanisms of eosinophilic esophagitis.

In hepatology, our group continues to elucidate rare liver diseases, particularly cholestatic diseases. Our center is part of the Swiss AILD cohort study. In addition, we are actively recruiting patients for a randomized controlled trial evaluating the treatment of cholestatic pruritus in primary sclerosing cholangitis.

Pneumology

Dr. M. Bernasconi

The interventional pulmonology team is taking part to a swiss multicenter study addressing the value of transbronchial EBUS-guided TBNA and cryobiopsy of mediastinal lymph nodes in patients nonsuspicious for lung cancer.

Dr. A. Casutt is co-investigator of the PneumoLaus cohort in Lausanne (CHUV), which analyzes the relationship between respiratory, cardiovascular, and psychiatric diseases. In the current year, we described the association between small airways disease and cardiac conditions. We further described the prevalence and environmental correlates of small airways dysfunction in a rural Swiss cohort (with Prof A. Ogna).

Endocrinology and Diabetology

Prof. Dr. P. Trimboli, Dr. E. Gamarra

In 2025, research activity continued to focus on thyroid diseases and diabetes, supported by strong collaborations within the EOC network and with international partners, leading to numerous high-impact publications. Prof. P. Trimboli further advanced the main thyroid research lines, including risk stratification systems for thyroid nodules (TIRADS), diagnostic assessment and minimally invasive treatments, the integration of artificial intelligence in thyroid imaging. Research on diabetes and technology remained active, with Dr. E. Gamarra leading studies on diabetes and continuous glucose monitoring, safety protocols in recreational scuba diving, as well as contributions to Swiss national recommendations on diabetes and technology. Ongoing projects on osteoporosis, in collaboration with EOC Neurocentro and coordinated by Dr. C. Camponovo, continued to progress.

Clinical Nutrition

Dr. N. Ossola

The ACTIDIET-Pro pilot study on Mediterranean/low-lipid diets combined with physical activity for prostate cancer patients, involving Dr. N. Ossola, Dr. M. Quarenghi and several dietitians, continues under the leadership of PD Dr. U. Vogl (IOSI). The Eswiss Hpn study has been concluded, a study in which we participated in collaboration with several other Swiss centers, which assessed patient satisfaction and the reduction of side effects from parenteral nutrition with a telemedicine program.

Dermatology

PD Dr. H. Beltraminelli, PD Dr. C. Mangas

PD Dr. C. Mangas is mostly active in the field of melanoma and skin cancer. In collaboration with the research unit from IOSI, she continues to develop international and multicentric clinical studies in adjuvant, neoadjuvant and metastatic setting in melanoma patients. During 2025, PD. Dr. C. Mangas has published studies on immune checkpoint inhibitors efficacy and toxicity

in melanoma and she has participated as coauthor into the updated swiss guidelines in melanoma. In April 2025 she got a grant from Fondazione Ettore Balli to start a new line of research about squamous cell carcinoma and microbioma.

PD Dr. H. Beltraminelli is active in skin lymphoma studies and humanitarian dermatopathology projects aiming at the development of dermatopathology in Sub-Saharan Africa.

Allergology and Clinical immunology

PD Dr. M. Bergmann

Research activity on food and drug allergy. PD Dr. M. Bergmann participated in the redactions of the new Swiss recommendations on allergy prevention in children and adolescent and is co-author of a systematic review on vasculopathy and vasculitis associated with levamisole-adulterated cocaine. He has been newly elected in the scientific board of the Swiss Allergy Center (Aha!) and was invited as a speaker at the annual congress of the American Academy of Allergy, Asthma and Immunology for his work on serum sickness-like reactions to β -lactams in children.

Laboratory Research

[See CHAPTER III on the Institute for Translational Research.](#)

Department of Surgery EOC

PD Davide La Regina, MD

Head of Department

Orthopaedics and Traumatology

Prof. Dr. C. Candrian, Prof. Dr. G. Filardo PhD MBA, et al.

The Orthopaedics and Traumatology Clinical Research Team, led by Prof. Dr. C. Candrian and Prof. Dr. G. Filardo, represents a consolidated and expanding entity within the EOC research landscape. The research activity mirrors the organization of clinical practice into 5 specialized teams: knee, shoulder-elbow, hip, foot-ankle, and hand-wrist. The individual expertise of each team and the collaboration among them focused on conducting systematic reviews, meta-analyses, and high-quality clinical trials to increase the strength of the current evidence and investigate emerging topics, all under the supervision and coordination of Prof. Dr. G. Filardo, an internationally renowned leader in musculoskeletal research. In 2025, research initiatives placed significant emphasis on the management of knee osteoarthritis and chondral lesions; investigations spanned rehabilitation protocols, intra-articular injection therapies, and knee arthroplasty, incorporating the application of robotic technology as well as novel techniques for cartilage defect repair. Additionally, knee surgical research addressed anterior cruciate ligament reconstruction and meniscal preservation. Studies in shoulder surgery examined various facets of arthroscopic rotator cuff repair and shoulder arthroplasty, while hip surgery investigations focused on intramedullary nailing and hip replacement surgery, exploring the use of robotic technology also in this context. Foot and ankle studies covered various aspects of

ankle fractures management, Achilles tendon disorders, plantar fasciitis, and hallux valgus correction, whereas hand and wrist research focused on carpal tunnel syndrome, distal radius fractures synthesis, and osteoarthritis. Throughout 2025, the group published numerous articles in peer-reviewed high-quality journals. At present, the team is conducting 21 ongoing clinical studies, including 12 randomized controlled trials, and maintains active participation in multi-centre collaborations with distinguished European research institutions. Furthermore, the research group and the Orthopaedics and Traumatology Service provide residents and students from USI with the opportunity to initiate or advance their expertise in the field. This high level of academic rigor was further reinforced by the establishment of a PhD program in musculoskeletal research in partnership with USI.

Plastic, Reconstructive & Aesthetic Surgery

Prof. Dr. D. Schmauss, Dr. C. Parodi et al.

Projects in clinical research:

Like in the years before, our clinical research focuses mainly on reconstructive procedures after breast cancer surgery with various ongoing collaborative projects in parallel. We completed and published a study on preoperative perforator mapping in autologous abdominal flap-based breast reconstruction with a hand-held thermographic device, and a study on the first 200 cases with a new and very innovative prepectoral breast tissue

expander. The multicentric randomized study assessing advantages and disadvantages of pre- and subpectoral implant-based breast reconstruction, which is funded by SNSF/ SAKK (collaboration with Prof. Dr. W. Weber, University Hospital Basel) has finished the recruitment of patients and is in phase of follow-up. The study regarding patient satisfaction after oncoplastic breast surgery (OPBS) in correlation with tumour volume and breast size is ongoing, now in collaboration with CHUV. In another collaboration with CHUV in Lausanne (Prof. Dr. Y. Harder), we elucidate in an ongoing study the benefits of reduction mammoplasty on neck pain and posture of the patients. Another multicentric study on mamoplasty evaluating the rate of ischemia-associated delayed wound healing or skin necrosis after repetitive local heat preconditioning of the skin (collaboration with Prof. Dr. H.G. Machens, TUM Munich) is ongoing. We have also completed studies on abdominoplasty, in particular regarding the reimbursement policy of insurance companies in patients suffering from symptomatic skin-excess, and another one regarding the effects of tranexamic acid.

Projects in basic research:

We have established a collaboration with the Institute for Clinical & Experimental Surgery of the Saarland University, Homburg/Saar in Germany (Prof. Dr. M.W. Laschke), that allows our young doctors in training to accomplish research fellowships (MD-PhD) assessing the effect of autologous nanofat grafting in a rodent model, while establishing a highly valuable scientific collaboration with our department. In a collaboration with Prof. Dr. G. Perale (USI Lugano) we investigate the effects of stromal vascular fraction (SVF), the heterogeneous cell population obtained from adipose tissue comprising adipose-derived stem cells, on spinal cord injuries. Prof. Dr. med. D. Schmauss is collaborating with the Department of Plastic Surgery and Hand Surgery of the Technical University Munich on an experimental in vivo burn project in rodents. Furthermore, another study on the effects of tranexamic acid in Plastic Surgery has been published in this collaboration (Prof. Dr. H.G. Machens and Prof. Dr. P. Moog)

Visceral Surgery

Colorectal surgery

Prof. Dr. D. Christoforidis,
PD Dr. S.G. Popeskou, Dr. G. Staccini,
PD Dr. F. Mongelli et al.

In 2025, our research activity continued in the same lines of the past years, in both clinical and translational research. We also launched in collaboration with the department of medicine, informatics, SUPSI and an external company “Autodischarge”, an innovative project using AI to generate hospital discharge notes. This project is funded by Innosuisse. Other clinical research projects include the ongoing ICARUS study that assesses prospectively the impact of complications on the quality of recovery after surgery, and an ongoing study that examines the prognostic impact of vascular invasion in stage I-III colon and rectal cancer when compared with lymph node positivity across the 4 EOC hospitals. Other projects included a meta-analysis on the necessity of completion right colectomy for LAMN/HAMN lesions of the appendix. We also initiated a meta-analysis studying feasibility and safety in ambulatory colectomy pathways in the context of enhanced recovery after surgery. In translational research, in collaboration with the laboratory led by Prof. G. Iezzi, we continued the work on the relationship between microbiome and anastomotic leakage (MicrobAL project) and concluded a study that examines combined tumor associated microbiome in the response to neo-adjuvant chemo-radiotherapy in locally advanced rectal cancer. Also in translational research we continue our participation with PD Dr. S. De Dosso in the FUSOMETRO study that examines the efficacy in reducing preoperatively *Fusobacterium nucleatum* tumor colonization in patients with colorectal cancer. The team also pursued national and international collaborations: We initiated a Swiss colorectal working group to reach a consensus on management of acute non complicated diverticulitis based on a national survey and a Delphi consensus meeting. We participated at the multicenter STOP II trial that studies communication between various teams in the operating room and its impact on patient safety. On an international level, we collaborated with

the international trial groups EuroSurg and GlobalSurg to join as national leads for Switzerland the new studies ALLIGATOR and SURGWEEK-2.

Bariatric surgery

PD Dr. F. Garofalo, Dr. M. Marengo,
PD Dr. F. Mongelli

During 2025, research activity in bariatric surgery focused on the refinement of surgical techniques and methodological aspects of both laparoscopic and robotic-assisted procedures. In particular, a dedicated study was conducted to evaluate and standardize intestinal length measurement techniques, aiming to improve technical accuracy and reproducibility in bariatric surgery. In parallel, research efforts addressed complex revisional and conversional procedures. Collaborative projects with other Swiss bariatric centers resulted in published studies, including work on the economic impact and cost-effectiveness of robotic-assisted bariatric surgery. Ongoing projects continue to integrate technical optimization with health-economic evaluation, with the goal of supporting evidence-based adoption of robotic techniques in bariatric practice.

Robotic visceral surgery

PD Dr. D. La Regina, Dr. R. Pini,
Dr. J.M.A. Toti, PD Dr. F. Mongelli

The Bellinzona and Valli Regional Hospital conducted multiple clinical research projects on robotic visceral surgery. Research activities and publications addressed key areas including complex abdominal wall surgery, hiatal hernia repair, and robotic cholecystectomy. Ongoing prospective studies focused on the integration of patient-reported outcome measures (PROMs) and functional outcomes across these fields. Several PROMs-based datasets were available and under analysis, aiming to generate robust patient-centered evidence and to further strengthen the institution's scientific contribution in robotic visceral surgery.

Hepato-pancreatico-biliary surgery

Dr A. Cristaudi, Dr R. Roesel, Dr L. Bernardi,
Prof. P. Majno-Hurst et al.

In 2025 our research focused on patient centered care, minimally invasive liver surgery and multicentric collaborations for improving practice in HPB surgery. Our project investigating the effects of asking patients undergoing major HPB surgery to write a short autobiography on the quality of care is still ongoing and has already generated an editorial published in the British Medical Journal. In collaboration with the HPB/ Transplant unit from the University of Pisa, we have published an original study comparing the long-term oncologic outcomes of robotic vs laparoscopic hepatectomy in patients with hepatocellular carcinoma and are participating in a study investigating the feasibility of minimally invasive surgery compared to cryoablation for the treatment of kidney tumors in liver transplant recipients. Our study comparing robotic-assisted, laparoscopic, and laparotomic repeat hepatectomies has been completed. We are pursuing several national and international collaborations: on a national level, the NutriWhi trial, (published), and the Bi-Le trial (data analysis); On an international level, we participate in one evaluating the learning curve of robotic hepatectomy in collaboration with 22 expert centers in robotic liver surgery across the world, and a multicentric study which measured the impact of enhanced recovery pathways (ERP) in liver surgery (PRESTIGE study). The use of ERP in major hepatectomies has been also the topic of one other original study published in the journal Surgery by Dr Bernardi from our team as part of his doctorate project at the University of Lausanne. Lastly, we have launched several new original projects in pancreatic cancer, liver metastasis and hepatocarcinoma.

Endocrine Surgery

Dr. K. Galetti, Dr P. Makovac, Dr G. Peloni et al.

Research in endocrine surgery is mainly clinical and focused on the thyroid and parathyroid glands, in collaboration with different EOC departments and international groups and registries (Eurocrine). With Prof. Dr. P. Trimboli from the endocrinology

service, we conducted a meta-analysis on the complications in thyroid surgery. Another study regarding the effectiveness of Levothyroxine starting doses after thyroidectomy and its dependence on early body variations occurring after surgery is ongoing. Furthermore we have published a study on Fine Needle Aspiration Cytology (FNAC) for low risk thyroid nodules and on ultrasound detection of normal parathyroid glands.

Urology

Prof. Dr. A. Gallina, Prof. Dr. N. Fossati

The research activity in urology is mainly focused on the field of uro-oncology. In particular, the urology service contributes to several ongoing clinical trials including patients affected by prostate cancer and patients diagnosed with bladder cancer (either non muscle-invasive or muscle invasive). Furthermore, the urology service significantly contributes to ambitious translational projects, in collaboration with the IOR laboratories. In particular, in one study (SUNSHINE-BIO), the molecular basis of differential responses to prostate cancer treatments are assessed in a comprehensive retrospective cohort. In a second study, the relationship between urological cancers and microplastics levels in blood and urine is evaluated. Moreover, we are developing new potential targets for BPH treatment. In particular, we are providing material for testing new molecules that may be able to slow down prostatic hyperplastic cells reproduction. The results are still very preliminary but they are very intriguing. Finally, the unit of functional urology recently started scientific projects focused on chronic pelvic pain and pudendal neuropathy, in collaboration with INSI and several abstracts have been submitted to dedicated international meetings.

Thoracic Surgery

Prof. Dr. S. Cafarotti, PD Dr. M. Patella et al.

In 2025 the thoracic surgery team confirmed its interest towards oncological research. Particularly in lung cancer treatment, we harvested the results of several

multidisciplinary studies conducted both locally and internationally. Along with local anesthesia team we explored new techniques for pain management after lung resections. We looked into prognostic factors associated with several panels of lung cancer mutations in association with IOSI. We also collaborated internationally to explore the limits of surgery in locally advanced chest diseases as lung cancer and thymic neoplasms. We did not forget our mission of practicing a holistic approach beyond mere surgery, looking also at social and psychological factors that play a role in improving the care of our patients. All these efforts produced a large amount of scientific publications, reinforced our historical collaboration with the University of Zurich and enhanced new and inspiring partnerships. In 2026 the Thoracic Surgery Unit of EOC will join the Cardiac Surgery and Cardiology that will be hosted in the same building at ICCT. This new scenario will be the base for future projects in clinical and preclinical research.

Vascular Surgery and Angiology

Dr. L. Giovannacci, Dr. G. Prouse, Dr. A. Robaldo, PD Dr. H. Stricker, PD Dr. R. Del Giorno et al.

In 2025, we pursued our clinical research with a main focus on aortic repair. A highlight of our research aimed at developing practice recommendations for the use of physician-modified endografts (PMEGs) in treating complex abdominal aortic lesions. We published results from a global survey aimed at gathering insights into current practices regarding the indications, planning, and technical aspects of graft modification for this procedure. The data collected served as the foundation for an expert consensus, developed using the Delphi method, to establish treatment and procedural guidelines for this off-label approach. During the year, we assembled a panel of physicians with the most extensive expertise in the procedure from Europe and the US and launched the first round. Additionally, as part of the multicenter retrospective study COMPLEXA, we performed and published an analysis on early mortality and mid-term durability of open surgical repair for complex abdominal

aortic aneurysms in octogenarians. Our findings suggest that age alone should not be considered a contraindication for open repair in appropriately selected individuals. Our team, in collaboration with the radiology department, has developed a machine learning algorithm to identify radiomic features capable of predicting aggressive type II endoleaks prior to endovascular aortic repair (EVAR). In this study, we demonstrate that a deep learning framework can effectively distinguish between benign and aggressive type II endoleaks using preoperative imaging alone. Given these encouraging results, a new multicenter study has been planned to collect a large amount of data for external validation and further refinement of the algorithm.

Otorhinolaryngology

Prof. Dr. M. Trimarchi, KD Dr. R. Spasiano, Dr. F. Barucca, Dr. E. Jacot

The Otorhinolaryngology research and clinical-scientific activity reflects the division of our practice into four main fields: otology, rhinology, laryngology, and oncology and head and neck surgery. The otology group in collaboration with the Neuroradiology department, launched a study on high-resolution radiological imaging of the ear with flat panel CT technique, aimed at validating its standardized use in the planning of functional otologic surgery. We are also studying the clinical-radiological correlations in Menière's disease through magnetic resonance imaging including hydrops protocol, by means of a retrospective analysis of one of the largest case series in Europe. Another ongoing study concerns patients affected by sudden idiopathic sensorineural hearing loss, for which we have been a cantonal referral centre since 2017. In rhinology, our collaboration with the Department of Aerospace Sciences and Technologies of Politecnico di Milano continues, with ongoing research on the effects of nasal surgery using computational fluid dynamics. We also maintain our collaboration with the Department of Neurology, Sleep Disorders Center, on obstructive sleep apnea syndrome, evaluating treatment results by means of sleep endoscopy, as well as our

collaboration with University Vita-Salute San Raffaele, Milano, on hypereosinophilia during dupilumab treatment in patients with nasal polyposis, and our participation in an international project on biologic therapies. Furthermore, we are outlining guidelines for the surgical treatment of cocaine-induced midline destructive lesions through an international collaboration. In laryngology, in addition to the collaboration with the Department of Neurology for the treatment of patients with botulinum toxin injections for adductor spasmodic dysphonia, we established a dedicated voice clinic introducing important innovations in our minimally invasive treatment offer. In oncology and head and neck surgery, we are developing, together with IOSI, a common database on head and neck cancer in order to evaluate our outcomes. A further project concerns abscesses of the deep head and neck spaces, an emerging condition following the Covid pandemic, with the aim of providing an overview of optimal diagnostic and therapeutic management based on timely case management and close multidisciplinary collaboration with the Infectious Disease, Intensive Care and Radiology services.

Laboratory Research

[See CHAPTER III on the Institute for Translational Research.](#)

Department of Gynecology and Obstetrics EOC

Prof. Andrea Papadia, MD, PhD
Head of Department

In recent years, the research activity at the Department of Gynecology and Obstetrics has been expanding steadily in terms of both scientific output and rates of patients accrual. In 2025, the Department's research Model was implemented to ensure that, alongside quantitative growth, there was also a steady improvement in the internal organisation, prioritizing inclusive intents.

Local Research Unit

In line with the policy of the Clinical Trial Unit (CTU) of the EOC, a Local Research Unit (LRU) of the Department of Gynecology and Obstetrics was created to promote, support, and facilitate clinical and translational research as well as coordinate and connect the research activities across the different sites of the Department (Lugano, Bellinzona, Mendrisio, Locarno). The LRU board, in which one representative from each study site takes part, ensures high-quality studies with the adoption of shared standard operative procedures and regular kick-off and follow-up meetings for every prospective trial initiated within the Department. The promotion of this collaborative model aims to increase the scientific production, the departmental cohesion and academic growth as a whole.

Patient and Public Involvement

In 2025, a no profit association called "GO WINneRS" (Women in Research, in Gynecology and Obstetrics) was funded by

Prof. Dr. M.L. Gasparri. It mainly focuses on the inclusion of patients perspectives into the design of new clinical trials, ensuring studies are relevant and patient-centered. With great enthusiasm, this initiative was welcomed by more than 130 patients so far and already 4 studies in the breast cancer field have been launched after having received the voluntary support of specific dedicated groups of patients who participated in the definition of the research question, study design and/or revision of the informed consent and lay summary. By incorporating the lived experiences, perspectives, and priorities of patients, this approach ensures research addresses topics that matter to patients, increases recruitment rates, and enhances the practical applicability of findings.

Patients accrual

Patients undergoing gynecologic and breast cancer surgery are systematically evaluated preoperatively for eligibility in prospective clinical studies. In 2023, an interdisciplinary research board of senology, led by Prof. Dr. M.L. Gasparri, was established. Since then, the accrual rate of breast cancer patients enrolled in prospective trials achieved a substantial increase compared to earlier years (over 50% in 2025, as compared to 5% in 2022). Alongside, all ovarian cancer patients meeting eligibility criteria were offered participation in ongoing trials. In parallel, the majority of women delivering in the Department were informed about and invited to participate in active prospective studies in the obstetric setting.

Translational research programs

In collaboration with IOSI and IOR, the Ospedale Regionale di Lugano continues to collect biological samples—including tumor tissue, blood, and (when present) ascites—from eligible breast and ovarian cancer patients. These efforts aim to characterize immune profiles and correlate a specific signature profile with tumor biology, prognosis, and treatment response for breast and ovarian cancer patients. Additionally, preoperative rectal and vaginal swabs are routinely collected to explore associations between microbiota composition, inflammatory markers, and oncological outcomes. In 2025, 17% of breast cancer patients enrolled in a clinical trial, have been involved in a translational research protocols. Likewise, most patients with advanced ovarian cancer undergoing cytoreductive surgery, both upfront and after neoadjuvant chemotherapy, were included in translational studies. The Department actively promotes cord blood donation for research in breast cancer field among women delivering at the Ospedale Regionale di Lugano. To date, thanks to the generous and active participation of new parents, cordon blood cells from over 400 vaginal births and C-section at the Ospedale Civico in Lugano have been sent and processed at the IOR Cancer Immunotherapy Laboratory within 48h after delivery.

International registries

In 2025, a total of seven international multicenter registries were active within the Department. The majority were focused on breast cancer, alongside contributions in reproductive medicine, benign gynecology, and obstetrics.

Field-specific contributions

The gynecologic oncology research network led by Prof. Dr. A. Papadia continues to play a pivotal role in promoting national and international studies, particularly in the field of sentinel lymph node mapping for endometrial and cervical cancers. These initiatives are supported by continuously

updated international databases. Prof. Dr. M.L. Gasparri, as a member of the Executive Board of the EUBREAST and Swiss Ambassador, promoted and/or coordinated in Switzerland 8 international breast cancer studies in 2025. Many of these projects were endorsed by important national and international organizations including OPBC, UEMS, EUBREAST, and SAKK. Furthermore, as head of the national steering committees of most of them, she actively contributes in the inclusion of our center in a renowned national and international scientific network. PD Dr. A. Braga is currently conducting two prospective studies in urogynecology, focusing on the efficacy of radiofrequency treatment for overactive bladder syndrome and on the minimally invasive approaches for stress urinary incontinence. Dr. A. Santi and Dr. C. Polli are locally coordinating two registries on reproductive medicine and endometriosis, respectively

Department of Anesthesiology, Emergency and Intensive Care Medicine EOC

Prof. Paolo Merlani, MD
Head of Department

EOC is a multisite public hospital network providing healthcare in Southern Switzerland for a population of about 360'000 inhabitants. The Services of Anesthesiology (A), Emergency (E) and Intensive Care Medicine (ICM) of the EOC constitute a functional Department (DAEICM-EOC). Each of the four public hospitals of the EOC has his own DAEICM. The four local DAEICMs make up the DAEICM-EOC. Each DAEICM is headed by a local Director. The main purposes of the DAEICM-EOC are to coordinate and to facilitate the integration and the collaboration among the four local DAEICMs for patients' care, for research purposes and for educational and training activities. The DAEICM-EOC is also responsible for the didactic module "Critical Care" for the Medical Master School of the USI, characterized by lectures and case discussions on USI-Campus, as well as bedside teaching in the four hospitals and in the pre-hospital setting. Furthermore, it supports medical students for their Master's thesis and for their Medical Doctor thesis. In 2025, the DAEICM-EOC organized the third international "Acute Care Symposium of Southern Switzerland" with outstanding international speakers from the three

different specialties. We established, in 2022, a Local Research Unit (LRU) for the entire DAEICM-EOC. An attending physician of the Department, supported by a Steering Committee, coordinates this Unit (<https://www.ctueoc.ch/lru-critical-care/>). Based on the clinical activities of the ICU in Lugano Civic Hospital and the presence of a dedicated LRU, we recently obtained the highest level of educational accreditation from the Swiss Society of Intensive Care Medicine and the Swiss Institute for post-graduate and continuous medical education. The main purpose of our LRU is to support researchers from study conception to manuscript submission in peer review journals through the different intermediate steps. Our LRU also has adequate methodological and statistical expertise and skills to make it independent. Each specialty in each hospital manages its own research projects as both monocentric and multicentric trials. We support collaborations with other Swiss and foreign research centers. One of the relevant aims of the LRU of the DAEICM-EOC is to encourage and support common projects among the different specialties of the Department and among the different healthcare providers.

Different topics are under investigation, and thereafter we mention only ones:

- Use of artificial intelligence and machine learning (ML) techniques for the early identification of nosocomial infections
- Usefulness of Point of Care Ultrasound in acute care setting
- Perioperative transfusion's strategies in elective surgery and their economic impact during hospitalization using micro-costing strategy
- Impact of prehospital profiles on functional outcome in traumatic brain injured patients
- Medium- and long-term outcome of patients with aneurysmal subarachnoid hemorrhage
- Use of different analgesic regimen and procedures in the post-operative setting
- Treatment strategies (pharmacological and non-pharmacological) for chronic pain syndromes in outpatients
- Impact of virtual reality on preoperative fears
- Economic and ecological impact of 500 ml intravenous fluid containers elimination

Different projects are working in progress. Here a selection of the most promising: impact of heatwaves on emergency department admissions, assessment of inspiratory effort in intubated and mechanically ventilated patients by different measurement's techniques, early identification of ward's patients requiring ICU admission using ML, polypharmacology in the elderly emergency department patient, impact of blood-sparing device in the ICU; impact of early VAP identification using broad-panel respiratory multiplex PCR test on antibiotic usage.

Other EOC Services



Rehabilitation Clinic EOC (CREOC)

Nicola Schiavone, MD
Medical Director

The Rehabilitation Clinic of the Ente Ospedaliero Cantonale (CREOC) is dedicated to the rehabilitative care of patients who need to improve their quality of life. To achieve this, it applies the biopsychosocial model, addressing the recovery of the individual's biological (genetic, biochemical, etc.), psychological (mood, personality, behavior, etc.), and social (cultural, familial, socioeconomic, etc.) factors. Specifically, rehabilitative care is aimed at providing pain relief, improving limb mobility, recovering strength, enhancing respiratory capacity, and achieving the overall physical reconditioning of the patient.

Together with the Hildebrand Clinic, CREOC is part of REHA TICINO, the network entrusted by the Canton with inpatient rehabilitation mandates. In addition to inpatient rehabilitation, CREOC also offers rehabilitation services across all local EOC hospital sites, catering both to patients admitted to these hospitals and to the broader population requiring outpatient care. Inpatient rehabilitation services are provided at the CREOC facilities in Faido and Novaggio.

In this context, the Canton has entrusted CREOC with the mandates for musculoskeletal, internal medicine/ oncology, and pulmonary rehabilitation. Furthermore, to address the needs of highly frail, polymorbid, and elderly patients, CREOC has developed a specialized clinical management framework for geriatric care. For years, the management of inpatients has been structured around various rehabilitative

Diagnostic, Therapeutic, and Care Pathways (DTCPs) based on the primary pathology.

Specifically, care is provided for:

- In the musculoskeletal field: patients with spinal dysfunction; patients with functional potential to develop; post-amputation patients; post-operative patients (hip, knee, and spinal prostheses, etc.); orthopedic patients with neurological comorbidities; patients with multifactorial pain syndrome;
- In the internal medicine and oncology field: internal medicine patients requiring reconditioning; oncology patients requiring reconditioning;
- In the pulmonary field: patients with respiratory/pulmonary issues; patients with SARS-CoV-2 requiring reconditioning.

Specific working groups and interest groups have been active for years focusing on the standardization of therapeutic procedures to establish common, evidence-based medical protocols. This applies both to the DTCPs and to specific specialized areas such as postural re-education, pelvic floor rehabilitation, pulmonary rehabilitation, and, more recently, the rehabilitative effects on Long COVID.

CREOC published a study (Lo Bello et al.) which aimed to evaluate the effects of adding strength training to an endurance training and education program on the quality of life in subjects undergoing pulmonary rehabilitation programs. Such programs, including physical training, have

a well-established role in the treatment of chronic respiratory diseases, but they are not routinely used for asthma. Most studies on asthmatic subjects have focused on endurance training; therefore, limited data is available regarding strength training. The study highlights that the addition of strength training to endurance training and education does not appear to yield a further improvement in the quality of life for individuals with moderate to severe asthma.

Furthermore, CREOC participated in a study (Manelli et al.) which aimed to evaluate whether the application of a tactile insole in patients undergoing femoral fracture fixation, hip arthroplasty, or knee arthroplasty could improve weight-bearing maintenance within clinically significant thresholds. The study demonstrates that the use of this insole significantly improved the accuracy of patients' partial weight-bearing within 14 days, achieving, in most cases, the thresholds related to the minimal clinically important difference. The low cost and simplicity of these insoles make them particularly appealing for routine or home use.

EOC Nursing Research Centre

Annette Biegger, MSc

Head of EOC Nursing Area

Loris Bonetti, PhD

Head of Nursing Research Division

In recent years, the EOC Nursing Department has promoted organisational and cultural improvements in order to advance the quality of care. This has led to changes in the organization and philosophy of care, as well as new technologies in support of nursing activities. In addition, great attention has been paid to the advancement of nurses' knowledge and skills, for which one of the most meaningful activities is the implementation of Advanced Practice Nurse roles. Given the increasing complexity of patients and health systems, these professional figures are crucial for the development of advanced nursing skills and clinical governance of professional activities. In the medical field, knowledge rapidly evolves, and something that is effective yesterday may no longer be effective today. Hence, it is important to develop research studies focused on the nursing field to provide nurses with new evidence and develop new expertise. Polit and Beck (2006) defined nursing research as a "systematic inquiry designed to develop knowledge about issues of importance to nurses, including nursing practice, nursing education, and nursing administration."

Nursing research activities with dedicated resources were first registered at IOSI in 2010 and are documented annually in the EOC Annual Scientific Report and EOC Nursing Activity bi-annual Report. In September 2016, the Centre of Competence for Nursing Research (CcRI) was established within the EOC Nursing Division with the following mission: "...to promote the development and quality of

nursing care in response to the health needs of the population, promoting innovation and nursing research in all clinical realities of the EOC and maintaining a close link between research (theory) and nursing care (practice)". In the coming years, the plan is to expand the network of colleagues and/or nursing research offices within EOC sites. Today, research offices are active across different sites, including IOSI, Ospedale Regionale di Lugano (ORBV), ICCT, and Ospedale Regionale di Lugano (ORL). Currently, each of these facilities has at least one nurse dedicated to nursing research, with varying work percentages ranging from 10% to 100%. Currently, the Leads of the local nursing research units are: Angela Tolotti at IOSI, Sarah Jayne Liptrott at the ORBV, Luca Corina Elena at the ORL, and Michele Villa at the ICCT. Nuria Prieto Casais joined the research team at IOSI in December 2022. Finally, Balice-Bourgeois Colette started to work in the IOSI research team since September 2025. The Chief of the Center of Competence for Nursing Research (CcRI) is Loris Bonetti since September 2021. Laura Steiner also works as nurse researcher at the CcRI. Nurses active in research are part of the Nurse Led Research Coordinating Team (CooRI), which coordinates EOC research activities and research development plans in the nursing field. In hospitals/institutions where there is no nurse dedicated to nursing research, Loris Bonetti and Laura Steiner help local nursing clinical experts in the development of research. The CooRI is formally recognized as a Local Research Unit from 2021.

The following are the main activities for which CcRI and CooRI are responsible:

- To develop, in accordance with the vision and the mission of the Nursing Department, the strategic development of nursing research and nursing profession at the EOC.
- To develop and implement nursing research projects using quantitative, qualitative, or mixed methods.
- Develop and maintain collaborations with national and international nursing research associations and networks.
- Developing training courses on research topics to be offered to all EOC nurses. This is critical for creating essential synergies with clinical realities and the network of nurses within the EOC.
- To promote and support cultural and scientific production by colleagues (preparation of abstracts, posters, journal articles, research projects, etc.).
- To collaborate with colleagues with managerial roles and colleagues from clinical governance for the collection and/or critical analysis of data, dissemination of evidence, and development of internal guidelines.

Research questions usually arise from needs identified by nurses working in clinical practice or holding managerial roles, and are answered through studies, which can be carried out with internal or external resources and funding. Internal resources are mainly used to conduct 'action-research' studies-planned and developed together with nurses involved in clinical practice and in the context of interest, aimed to explore a specific clinical or professional phenomenon in order to change and improve nursing practice. Such studies are 'context-related'; therefore, results can be transferred to similar realities but usually cannot be generalized. Despite this, such action research studies are deemed important, as they require a proactive role from professional teams and stimulate reflective thinking and critical review of their professional practice. Other studies, especially those externally funded, tend to focus on the phenomena of clinical or professional interest of a more general nature.

The following are the research studies that are currently active:

- A pilot project to test a complex intervention delivered by oncology nurses aimed at promoting a healthy lifestyle among cancer patients. The intervention was based on patient engagement theory. This study will be conducted in partnership with The Catholic University of Milan. It has recently been funded by Fond'action contre le cancer (Lausanne).
- Three studies on the implementation of the Advanced Practice Nurse (APN) role in stroke patients, patients undergoing peritoneal dialysis, and in palliative care.
- An implementation study for the development of a complex intervention to promote positive workplaces.
- Quality improvement in radial haemostasis management: A mixed-methods study evaluating adherence to evidence-based recommendations and identifying opportunities for enhanced outcomes.
- A study on the correlation between nurses' performance and clinical reasoning during training in the Room of Errors, and a mixed-methods study on the impact of Room of Errors training on nurses' competence in identifying patient risks. The studies were conducted as part of a collaboration between the Nursing Department of the ORL and the ICCT.
- An implementation study of a protocol integrating artificial intelligence systems to reduce falls among hospitalised patients at the Regional Hospital of Lugano.
- A prospective observational study about active involvement of patients with cancer in clinical research, with the aim to educate patients and informal caregivers in order to be directly involved in the performance/discussion/design of clinical studies.
- An implementation-effectiveness study investigating the introduction of a new nursing handoff approach – presented at the IMPACT Implementation Conference 2024.
- A study regarding the self-evaluation of the competencies of nurse clinical specialists working in ORBV, IOSI and IPSI.
- A study of nurses' perceptions regarding nursing care at IOSI
- A mixed-method study about the role of nurses in managing symptoms reported via digital platforms in breast cancer care.

- A study assessing the effectiveness of, and satisfaction with, triage training among Emergency Department nursing staff.
- A pre-post intervention study aimed at preventing falls among patients at CREOC.
- A study focused on improving the hospital-to-home transitions for older adults including stakeholders from hospital and community at the Ospedale Regionale di Mendrisio (conducted as part of Laura Steiner's doctoral research).
- A study dedicated to the development and improvement of nurses' clinical thinking and decision-making skills at the Ospedale Regionale di Mendrisio.

Additional studies are planned in collaboration with colleagues working in various clinical settings. Two members of the CooRI are also involved in a strategic Nursing Department project focused on the development of the EOC new Nursing Professional Practice Model (PPM) and the creation of a new model of nursing care. Within this initiative, the CcRI and CooRI play a key strategic role in ensuring methodological rigor and providing scientific guidance. Both projects completed the preliminary phase, and the PPM entered the implementation stage.

In June 2025 four posters of different research performed by CooRI and EOC nurses were presented during the 30th International Council of Nurses (ICN) congress: "Nursing Power to Change the World" in Helsinki, Finland, one of the most important nursing conferences worldwide. This is an important success, because the ICN congress is highly competitive. In the same period, at the International Symposium on Pediatric Pain (ISPP) in Glasgow, a team member presented a poster on nitrous oxide-oxygen for procedural analgesia in pediatric outpatient care and co-led an international workshop on integrated, high-impact, multifaceted implementation strategies aimed at improving procedural pain outcomes in infants, drawing on experiences across three continents.

In June 2026, two projects—one focusing on the implementation of Advanced Practice

Nursing (APN) in stroke care and the other on the adaptation of the Ethical Conflict Questionnaire for Intensive Care Units to acute care units—will be presented at the 8th Sigma European Regional Conference 2026, to be held in Kuopio, Finland, from 24 to 26 June 2026. Furthermore, two abstracts have been accepted for presentation at the Implementation Conference 2026 (IMPACT 2026) in Zurich: one focusing on hospital-to-home transitions for older adults, accepted as a flash poster presentation, and another focusing on the implementation of the New Nursing Professional Practice Model (EOC), accepted as a poster presentation. In line with these developments, the Fourth EOC Nursing Research Congress will be hosted in Lugano on the 17th April 2026, in collaboration with the University of Applied Sciences and Arts of Southern Switzerland (SUPSI). A total of 45 abstracts submitted by EOC nursing staff have been accepted for presentation. This significant participation underscores the sustained expansion and maturation of nursing research within our institution.

The main themes of this conference edition will be new roles in nursing and nursing professional identity. For this reason, we have invited two keynote speakers: Prof. Manuela Eicher, Full Professor at the Institute of Higher Education and Research in Healthcare (IUFERS) of the University of Lausanne and an expert in the development and implementation of Advanced Practice Nursing (APN) roles; and Prof. Maria Katapodi, an expert in personalized health care and genomic interventions.

This year, the conference has also been opened to clinical and educational institutions beyond EOC and SUPSI. The decision to broaden participation reflects our intention to gradually expand the conference. In fact, by its fifth edition in 2028, the event will be open to all clinical institutions in Ticino. This year therefore represents an important first step in establishing connections with these institutions.

In addition, the 14th Conference on Medical Human Research, held in October 2025, once again saw significant participation from EOC nurses. One parallel session was

dedicated to nursing research projects. Moreover, one of the EOC nursing projects -an implementation-effectiveness study regarding nursing handoff presented during the plenary session- was awarded Best Oral Nursing Presentation.

In 2025, the Convention between the EOC Competence Centre for Nursing Research and the SUPSI Competence Centre for Health Practices and Policies became fully operational. In collaboration with SUPSI, a scoping review is nearing completion to summarize the literature on the use of virtual reality to promote well-being among healthcare students and healthcare professionals. Based on its results, a joint study is planned for submission to a competitive national funding call, representing the first concrete research project developed collaboratively by the two institutions. In addition, following the EOC-SUPSI meeting held in December 2024, two main strategic research areas were chosen for joint development: patient transitions across care settings and active patient involvement in the development of research projects. These shared priorities provide a strong foundation for strengthening future collaboration. To strengthen our visibility within the Swiss context, we are also seeking collaborations with other Swiss universities and hospitals. Finally, our primary research objective for the upcoming year is to identify a specific research area or methodology that will distinguish and differentiate our work within the Swiss and international context. Our ambition is to establish ourselves as a benchmark in a specialized field, ensuring that we are recognised as leading experts both nationally and internationally.

Nursing research at EOC has undergone significant expansion in recent years, evolving into a robust entity and a pivotal resource for both management and clinical staff. It is now imperative to achieve a strategic qualitative advancement to bolster our influence within the national and international scientific communities.

Digital Evolution and Technology Area (AEDT)

Achille Alberti
Head of AEDT

The Digital Evolution and Technology Area (AEDT) (formerly Information and Communications Technology Area) encompasses traditional IT services, including infrastructure, operations, communications, and user support. In addition, through the development and implementation of the hospital's clinical information system (GECO), the management of medical technologies, and a strong focus on the adoption and evaluation of Artificial Intelligence (AI), AEDT plays a central role in driving the hospital's digital transformation.

Innovation and Research

Lorenzo Ruinelli, Group Leader Innovation and Research
Michele Marazza, Head of Analytics, Research & Communication

The AEDT is actively engaged in research activities primarily through its dedicated Group, Innovation and Research, which focuses on advancing AI. In addition to internal resources, the group's strategic development focuses on establishing collaborations with external organizations, including the Swiss AI Lab (USI-SUPSI IDSIA) and the Institute of Digital

Technologies for Personalised Healthcare (SUPSI MeDiTech), to apply state-of-the-art AI techniques to EOC data. In parallel, the group supports the hospital in enabling data harmonization and exchange within research networks such as the Swiss Personalized Health Network (SPHN).

The Group serves as a central hub for the extraction and analysis of clinical data, supporting researchers, students, scientific publications, and the preparation of funding proposals. Its scientific output continues to grow steadily, driven by productive collaborations with clinical partners.

The current portfolio of funded AI projects spans several initiatives, including the identification and prediction of acute kidney injury and disease in hospitalized patients; the automation of discharge letter drafting using large language models (Innosuisse); the de-identification of clinical text to ensure patient privacy (SNF); and the processing of clinical narratives to monitor eligibility for clinical research (SNF).

In addition, the Group is engaged in internal projects focused on automating administrative workflows, notably the adoption and evaluation of a secure generative AI tool, EOCgpt



Medical Education and Research Area of the General Directorate EOC



Institute for Translational Research USI-EOC (IRT)

Prof. Alessandro Ceschi, MD, MSc
Head of AFRi Area

The Medical Education and Research Area (AFRi) is part of the General Directorate of EOC. The AFRi places medical training and research at the heart of its mission, recognizing them as the cornerstones of medical advancement, innovation, and enhanced patient care.

AFRi's core activities focus on three key areas:

- **Support researchers:** AFRi provides comprehensive assistance and resources for the implementation and conduct of clinical and translational research projects. This includes, among others, access to research infrastructures, assistance with grant applications, methodological guidance and statistical expertise.
- **Foster Collaboration:** AFRi actively cultivates strategic partnerships with national and international research institutions, universities, and industry stakeholders. These synergies facilitate the exchange of expertise, resources, and ideas, thereby elevating the quality and impact of the research conducted within the EOC.
- **Promote Innovation:** AFRi serves as a catalyst for creative thinking, encouraging the exploration of novel ideas and the development of innovative solutions to address unmet clinical needs.

Prof. Alain Kaelin, MD PhD
Head

As part of their shared vision to create a center of excellence in medical research spanning from basic to clinical research in the hospital setting, with a strong translational component that is currently largely missing, USI and EOC have established the Institute for Translational Research (Istituto di Ricerca Traslazionale, IRT) as a joint initiative. This project builds on existing local strengths and synergies. IRT is the first joint USI-EOC institute and was formally founded on 1 July 2025. It represents a significant step toward the creation of an EOC-USI university hospital, which requires dedicated infrastructures for clinical and translational research, as seen in other successful national and international institutions. Through the new institute, EOC and USI researchers gain access to a well-established academic structure in the biomedical field, leading to enhanced scientific research, education, and training, as well as stronger links with the MedTech sector. In the absence of similar structures in Ticino, and drawing on successful examples from Switzerland and abroad, specific solutions have been developed for the planning, implementation, and growth of the IRT.

The IRT project is designed to strengthen the existing Ticino ecosystem by addressing a strategic gap in selected medical fields, including but not limited to neurology, cardiology, regenerative medicine, and microbiome research, with the goal of establishing excellence in specific priority research areas. Together with key partners, the IRT enhances the attractiveness of Ticino for young talents, physicians,

researchers, and private investors in the biomedical sector.

Embedded within the USI-EOC environment and contributing to the activities of the Faculty of Biomedical Sciences, the IRT plays an important educational role and contributes to attracting young talent. It is actively involved in programs such as the Master in Medicine, the Master in Immuno-Oncology (expected to start in the Fall semester of 2027), PhD and MD-PhD programs, and postgraduate education, ensuring the training of future scientists and physicians in multidisciplinary translational research.

Headed by Prof. Alain Kaelin, the IRT is currently structured into four Research Divisions that reflect areas in which its scientific excellence in translational biomedicine is already recognized at both national and international levels. Each Division has both a governing and a scientific manager who serves as "Division Leader." Division Leaders are EOC-USI researchers holding an academic title equivalent to a tenured professor.

Each Division may include multiple research groups managed by independent Principal Investigators:

- **Neurology Division**, led by Giorgia Melli, study of innovative biomarkers for the very early diagnosis of Parkinson's and Alzheimer's diseases, and systemic amyloidosis;
- **Cardiology Division**, led by Lucio Barile, studies the mechanisms underlying the progression of heart disorders following

acute myocardial infarction, as well as age-related heart diseases. The Cardiology Division also hosts project leader Anna Rinaldi, who is dedicated to comprehensive research on kidney transplants, senescent cells, and thrombosis-related damage.

- **Gut Division**, led by Giandomenica Iezzi, focusing on the study of interactions between the gut microbiota and the immune system, and their impact on gastrointestinal and systemic diseases. The Division also includes Dr. Sheida Moghadamrad, as independent project leader, studying etiopathogenetic mechanisms of fatty liver disease. In 2026, the Gut Division will welcome a new research group led by Thomas Greuter, whose work focuses on the pathomechanisms of eosinophilic esophagitis.
- **Regenerative Medicine Division**, led by Matteo Moretti, focuses on 3D in vitro model systems and Biofabrication to study diseases like bone senescence and muscle fibrosis. The Division hosts Principal Investigator and ERC funded researcher Simone Bersini, who investigates vascular senescence and explores potential strategies to rejuvenate blood vessels and surrounding tissues. It also includes Project Leader Chiara Arrigoni, who is dedicated to developing organ-on-a-chip drug screening platforms for osteoarthritis and other pathologies.

The research units have been defined based on current excellence; they include different research groups however, this structure represents a starting point for harmonious future development.

Currently, the IRT comprises 8 group/project leaders, 3 senior scientists, 5 research assistants, and 18 PhD students. In addition, the institute includes 1 grant officer, 1 executive assistant, 1 senior controller, and 1 director, for a total of 30 FTE (full time equivalent) staff members, plus 9 Master's students.

More information are available online
- [research activities of IRT groups](#)
- [IRT Annual Report 2025](#)



Clinical Trial Unit EOC

Prof. Anastasios Stathis, MD

Scientific Head

Tatiana Terrot

Head of Operations

Overview, Activities and Strategic Developments

The CTU-EOC is part of the AFRi and is a full member of the Swiss Clinical Trial Organization (SCTO, President: Prof. Alessandro Ceschi). Its mission is to support and advance academic clinical research within EOC by providing high-quality expertise for the design, implementation and conduct of research projects across all medical fields, while ensuring compliance with national and international regulatory standards. Through its experienced team, CTU-EOC supports multicentre studies, contributing to methodological quality, operational efficiency and timely execution. The unit provides assistance throughout the entire research lifecycle, from protocol development and study design to regulatory submissions, data management infrastructure, and final data analysis in accordance with current regulations. CTU-EOC has extensive expertise in managing multicentre studies, particularly in early-phase drug development, both in Switzerland and across Europe. In addition to project coordination, the unit supports product management and safety monitoring activities.

In 2025, CTU-EOC was involved in 260 projects, including 85 newly initiated studies. Among them, 25 fell under HRO Chapter 3 (further use), 18 under HRO Chapter 2, 14 under ClinO_other, 10 under ClinO-IMP, and 4 under ClinO-MD, while 14 projects remained uncategorized (Figure 1).

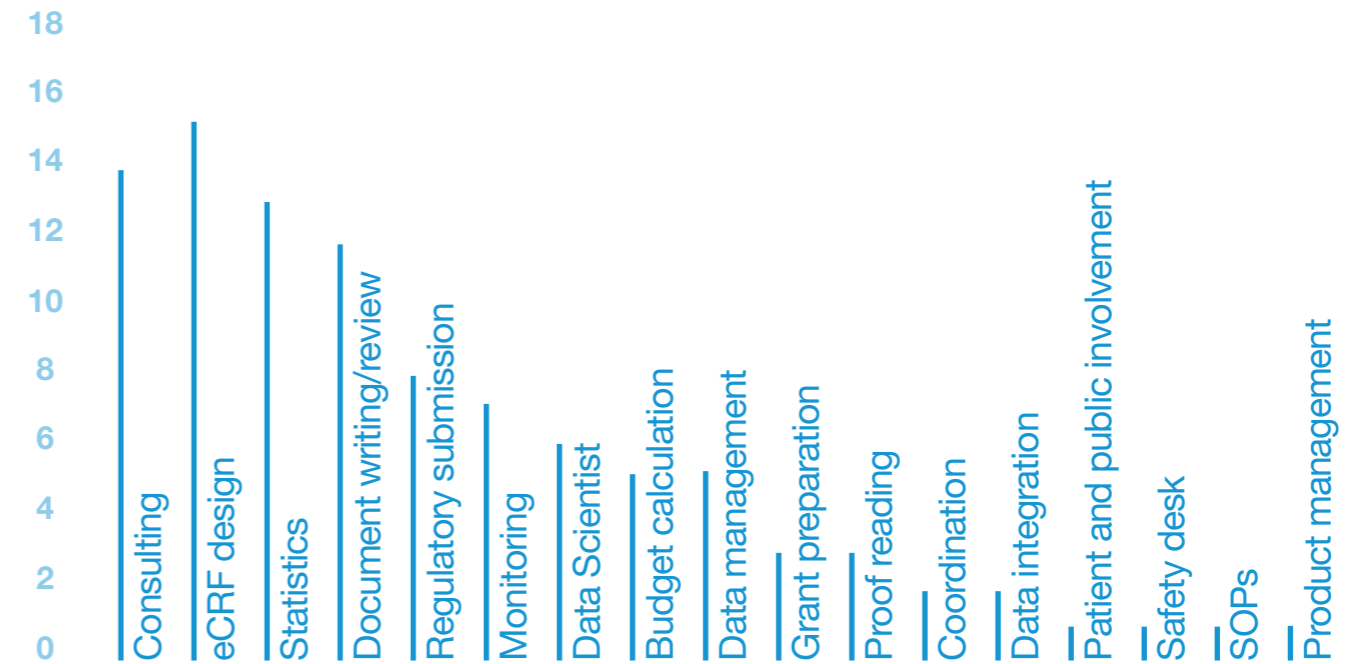


Figure 1.
Type of services in 2025

In addition, in 2025 CTU-EOC was selected as the lead CTU for an SCTO working group on artificial intelligence (project lead: Prof Anastasios Stathis) in clinical research and was awarded a Research on Research (RoR) project focused on decentralized clinical trials (led by Prof Stathis and Paola Messina), further strengthening its national role in methodological innovation. Collaboration agreements with key national partners, including ETH Zurich and CTU Bern, were established during the year. These agreements provide the foundation for future joint research activities and are expected to facilitate the development of collaborative projects and strengthen scientific and operational synergies. During the same period, CTU-EOC initiated a comprehensive evaluation of its technological infrastructure, with a particular focus on electronic data capture systems. This initiative aims to identify and implement a validated platform that complies with regulatory requirements and is capable of effectively supporting the operational and scientific needs of investigators and clinical studies.

68 Beyond project support, CTU-EOC contributes to academic training by assisting students from the USI Faculty of Biomedical Sciences in the development of master's and doctoral theses, with opportunities also extended to PhD candidates from partner institutions such as ETH Zurich and the University of Zurich. The unit also actively contributes to the SCTO education platform and other national and international initiatives, promoting continuous knowledge exchange and up-to-date expertise

Education

Education represents a core component of CTU-EOC's mission. The unit is strongly committed to fostering the training and professional development of researchers through a dynamic, high-quality educational program that remains adaptable to the evolving needs of EOC and partner institutions.

In 2025, eleven courses were delivered (Figure 2), with a total of 209 participants—a significant increase compared with 2024 (103 participants). Feedback from attendees was consistently positive and included both internal EOC staff and external researchers. CTU-EOC continues to contribute to PhD programs at the USI Faculty of Biomedical Sciences, with courses open to doctoral students from partner institutions such as ETH Zurich and the University of Zurich.

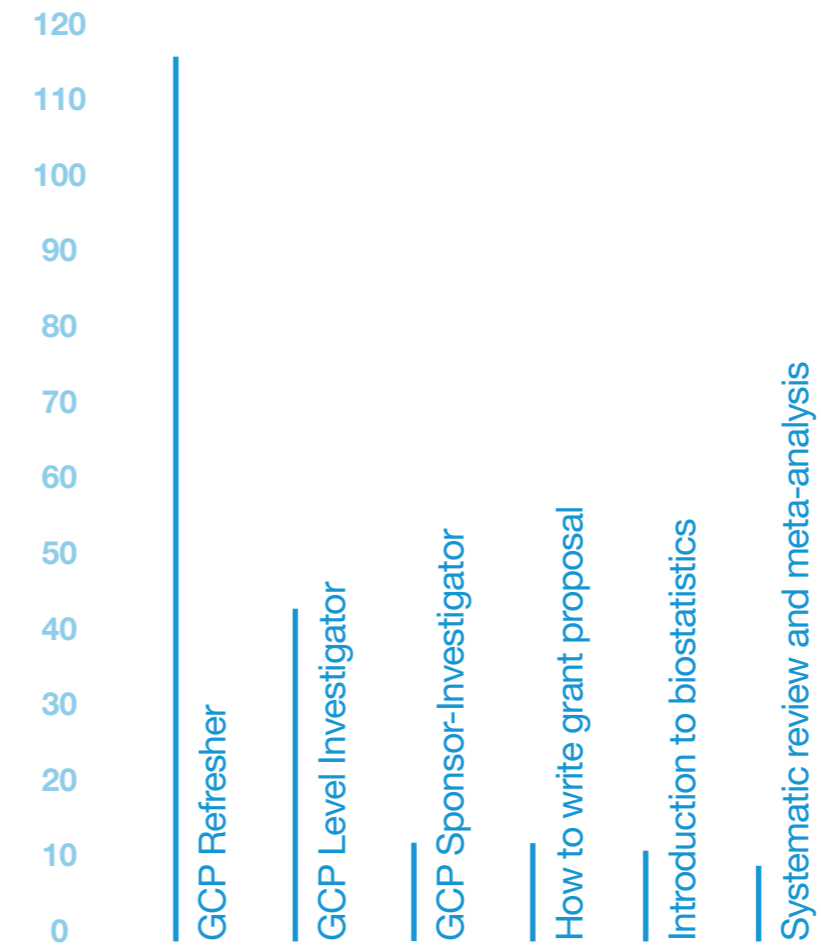


Figure 2.
Courses
and number
of participants
during 2025

Events

In collaboration with the USI Faculty of Biomedical Sciences, AFRi CTU-EOC organised the 14th Giornata della Ricerca e dell'Innovazione in Medicina Umana della Svizzera italiana. The event confirmed its continued growth, with increasing attendance and strong scientific engagement.

A total of 135 abstracts were submitted (62 clinical or epidemiological, 44 basic, translational or computational and 29 nursing), and the event welcomed 348 participants.

More information is available at the following link:

<https://www.ctueoc.ch/giornata-della-ricerca/>



Grants and Fundraising Unit

During 2025, we strategically focused on exploring and participating in major national funding calls, including those from the Swiss National Science Foundation (SNF), Innosuisse, and other Health agencies and we successfully secured several significant grants. At the foundation level, we also engaged in key consortium calls, enabling collaboration with national partners and generating substantial impact on the activities of our Clinical Trial Unit. In parallel, we strengthened collaborations with local partners who actively support our clinical research fellowship programs, which represent a crucial engine for the development of our future research activities.

We also developed a dedicated business intelligence dashboard for the digital management of grant data and revenues. This tool enables efficient monitoring and provides a comprehensive, real-time overview of external funding approved.

With the establishment of the new Institute for Translational Research (IRT), the Unit further expanded its activities by introducing a Grant Officer role. This position supports the operational aspects of grant management across the Institute. Additionally, close

collaboration was established with the USI Research Service to define clear procedures for both pre-award and post-award phases of grant applications submitted by EOC researchers affiliated with USI.

Researchers interested in collaborating with EOC research teams and applying for national or international funding opportunities are warmly encouraged to get in touch with the Grants and Fundraising Unit. We provide support in identifying suitable funding opportunities, as well as in the preparation, submission, and implementation of collaborative projects

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EOC Biobank

The EOC Biobank is a non-profit service available to researchers for the collection, processing, storage and distribution of biological samples and associated (clinical) data for research purposes.

It is recognized by the Swiss Biobanking Platform with the “Norma label” and applies all regulatory and quality requirements aimed at guaranteeing donors' rights.

In 2025, the EOC Biobank continued to manage biological samples for clinical studies, mainly promoted by researchers from the Ente Ospedaliero Cantonale.

Since it was founded in 2021, the biobank has supported 21 sample collections; of these, 11 collections of blood-derived biological samples are currently being managed, with over 24'000 aliquots stored at the facility. Some of these collections have completed their collection phase and are now in long-term storage.

Researchers supported by the EOC Biobank have established numerous collaborations with national and international research institutions, and thanks to this partnership, it was possible to securely and traceably ship biological samples to partner research institutions and laboratories. The purpose of a biobank is not only to store biological material but also to make it available to the scientific community.

The EOC Biobank is accessible not only to EOC researchers but to all research groups interested in benefitting from a highly qualified infrastructure dedicated to the collection, storage and use of biological samples in Ticino, as well as nationally and internationally.

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Intellectual property

Intellectual property (IP) and related rights establish legal framework to protect creative and inventive works from unauthorized commercial use and reproduction. The primary value of IP is commercial. EOC is committed to fostering scientific knowledge and maximizing the impact of its research findings. This includes facilitating technology transfer from the intellectual creations of EOC researchers. Any invention or innovation that could be patented (or similarly protected) and is eligible for exclusive rights, falls under the [EOC regulation on intellectual property](#).

The EOC Intellectual Property Commission (IP Commission) oversees the implementation of this regulation. This commission comprises members from the EOC General Directorate. The Head of Technology Transfer at USI is also a member and supports its operations. The IP Commission is responsible for protecting

and leveraging inventions that are, or could be, patentable or otherwise legally protected. The IP Commission convenes as needed whenever a request for the patentability of an invention or any other intellectual property arises.

The IP Commission evaluated and supported so far three invention disclosures submitted by EOC researchers and clinicians. By the end of 2025, this activity had resulted in the filing of two patent applications: A. Perren et al., “Nasogastric device and system thereof” (Publication Number EP4534066), and D. Christoforidis et al., “Device for Treatment of Haemorrhoids” (Application Number EP25217359). A third application (Iezzi et al.) was subsequently filed in early 2026

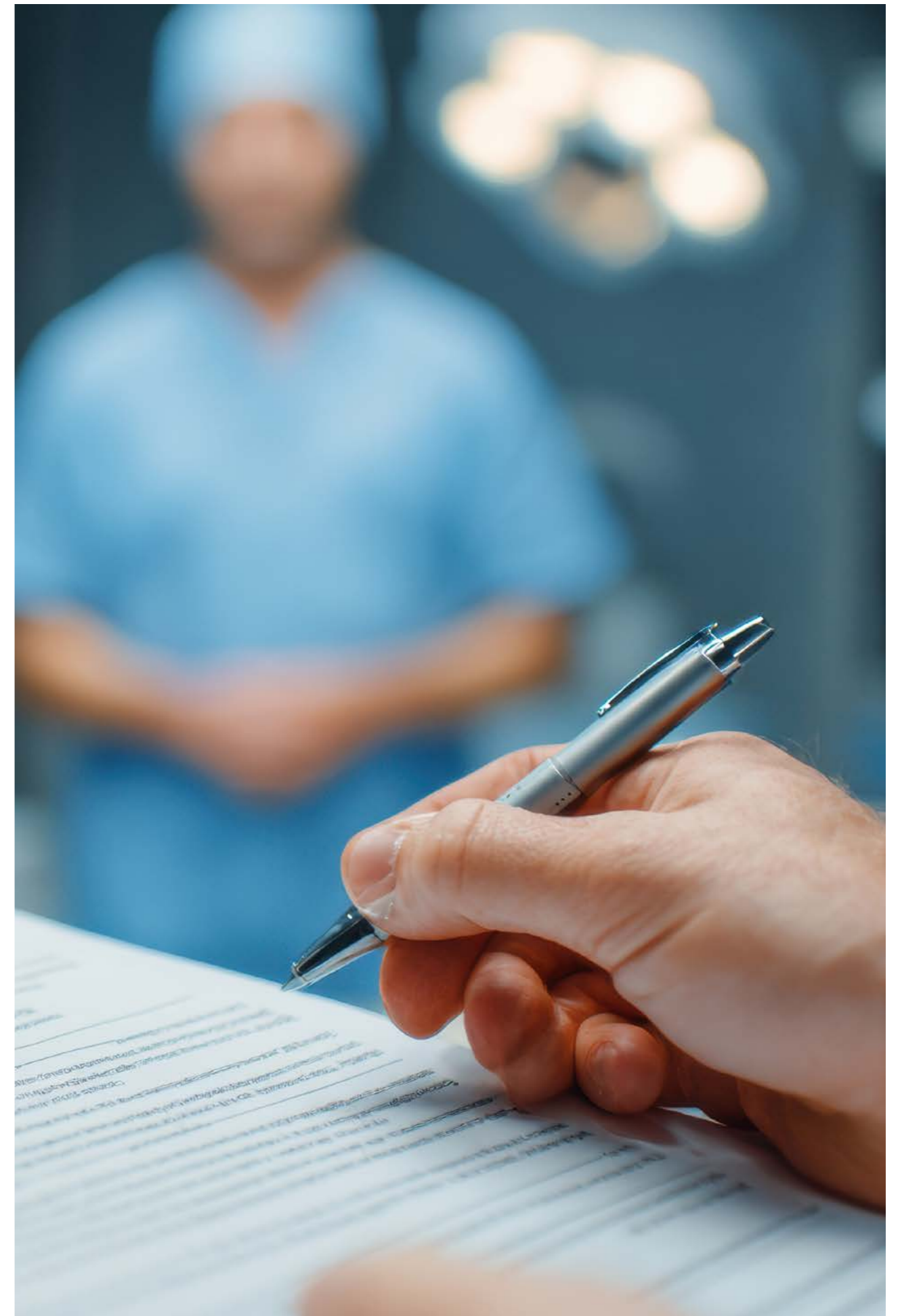
General consent for research purposes

In 2021 the AFRi initiated the implementation of the General Consent for research purposes across EOC Institutes and Departments. This initiative was pivotal as a large part of medical research relies heavily on patients' personal health data documented in their medical records, such as laboratory results, administered treatments and genetic predispositions. Similarly, biological material collected in hospitals during patient care that is no longer clinically required holds immense value for research.

The General Consent empowers patients to directly contribute to advancing medical knowledge. Patients can now actively contribute and provide their explicit consent for their clinical data and/or leftover biological samples to be securely stored, potentially shared with third-party research institutions and subsequently reused for research purposes. Crucially, such re-use remains subject to the approval by the competent Ethics Committee(s). Through the introduction of the General Consent for research purposes across EOC hospitals, patients are now informed of the great value of their personal health data and biological material and how they can contribute to and fuel future research discoveries.

Between 2021 and 2025, the EOC collected 67'409 General Consent forms. Of these, 56'172 patients actively consented the re-use of clinical data and biological samples for research purposes

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USI Faculties and Institutes

Research activities in biomedical sciences at USI are mostly organized within the Institutes of the Faculty of Biomedical Sciences, but also comprise more interdisciplinary activities in domains of computational sciences, health economics, and health communication in cooperation with the Faculties of Informatics, Economics, and Communication, Culture and Society.



USI Faculty of Biomedical Sciences

USI Faculty of Biomedical Sciences was established in 2014 with the aim of addressing an important national problem: the dearth of physicians trained in Switzerland. To reach its goal, the Faculty offers from 2020 a Master of Medicine (three years of clinical training), in cooperation with ETH Zurich, University of Basel and University of Bern regarding academics, and with EOC, clinics, and general practitioners regarding clinical training.

The Master addresses the new challenges of medical practice by combining clinical and scientific training with communication skills. The Faculty is also offering a joint Master's programme in Cognitive Psychology in Health Communication with Vita-Salute San Raffaele University, Milan.

The Faculty is offering a PhD program in Biomedical Sciences with majors corresponding to its main research areas, i.e. immunology and cell biology, cancer biology and oncology, (human) neurosciences, (human) cardiovascular sciences, drug sciences, public health, computational biomedicine and musculoskeletal sciences and regenerative medicine, as well as a Medical Doctor Programme (MD-PhD). Moreover, the Faculty organizes an Executive Programme in Sleep Medicine (with the University of Bern), in Gastrointestinal, Gynecological and Prostate Cancer (with the European School of Oncology) and in Patient's Communication (with Fondazione Sasso Corbaro). Finally, the Center of Advanced Studies on Entrepreneurship in Biomedicine

(CASE BioMed) adds to the medical and scientific education at the Faculty by offering advanced programmes in innovation and entrepreneurship.

The Faculty currently comprises more than 20 full, associate and assistant professors, as well as a large number of adjunct professors, and of private lecturers; these mostly include directors and senior scientific staff of the EOC presented in Chapter I of this report.

Research in the Faculty is developed in immunology and basic cancer research at the two affiliated institutes IRB and IOR and in the transnational research laboratories of EOC, epidemiological and clinical research is performed within the Institute of Public Health at USI and in the institutes and centers at EOC (see Chapter I of this report); finally, research in computational biomedicine is developed at the Euler Institute:

- The Institute for Research in Biomedicine (IRB; www.irb.usi.ch), affiliated and based in the Bellinzona campus Bios+ (Bellinzona Institutes of Science). IRB was founded in 2000 with the goal of advancing the study of human immunology, with particular emphasis on the disease-relevant mechanisms of host defense. Since 2010, it is affiliated to USI as part of its Faculty of Biomedical Sciences. It currently comprises 13 research groups and more than 170 staff members. The Institute of Oncology Research (IOR; www.ior.usi.ch), affiliated and based in the Bellinzona campus

Bios+, hosts researchers from all over the world performing basic and translational research in oncology with special focus on cancer biology, genomics, molecular oncology, and experimental therapeutics. Since 2017, IOR is affiliated to USI as part of its Faculty of Biomedical Sciences. The Institute currently comprises 8 research groups and more than 140 staff members. The Institute for Translational Research (IRT; <https://lrteoc.ch/>), with its headquarters in Bellinzona, was funded on 1 July 2025. The Institute for Translational Research was established as an evolution of the Laboratories for Translational Research (LRT), which the EOC had set up in 2021 and continues to manage today with the narrow financial margins allowed to the Institution by legislative regulations, particularly for research projects. The new structure, 50% managed by the EOC and 50% by USI, is located in the Bellinzona campus Bios+, together with IRB and IOR, making a further contribution to the research sector in Ticino, which is becoming increasingly important in our Canton.

- The Institute of Public Health (IPH), see below
- The Institute of Family Medicine (IMF), see below.
- The Euler Institute (www.euler.usi.ch), common to the Faculties of Informatics and Economics. Euler is USI's central node for interdisciplinary research and the connection between exact sciences and life sciences. Euler applies advanced

computational methods to fields such as Life Sciences, Medicine, Physics, Mathematics, and Quantitative Methods. It currently comprises four professors, as well as several adjunct professors and group leaders and about 45 researchers and PhD students.

Institute of Public Health (IPH)

The [Institute of Public Health \(IPH\)](#) is an inter-faculty Institute and one of the five training and research entities supported by the Faculty of Biomedical Sciences of the Università della Svizzera italiana. Members of the IPH perform research, training and practice, and provide services across a broad range of activities related to public health. The IPH is the 'antenna' in Ticino of the Swiss School of Public Health (SSPH+) and is home to research programs articulated across several research projects. In addition, IPH members are available and open to collaborations, and to provide support and scientific advice on the methodology of epidemiological, biomedical, behavioral, and other areas of research, from the conception, to the conduction, through the implementation of studies with various designs and spanning qualitative and quantitative methodological approaches. IPH is an USI inter-faculty Institute with members from the Faculty of Biomedical sciences and of Economics. The IPH staff currently includes the Director (Prof. Dr Med Emiliano Albanese), 2 tenured professors, 2 adjunct professor, 2 lecturers & researchers, 2 scientific collaborators, 3 post-docs, 6 PhD students, 1 research assistant, and visiting fellows. The members of the IPH vaunt a broad range of backgrounds, interests, competencies, and varied experiences across research domains than span the medical field, epidemiology, health economics, health communication, health promotion and behavior, psychology, among others.

Members of the IPH conduct a variety of studies in the fields of aging, mental health, epidemiology, public health, health services research, cognitive development and decline, social media addiction, digital health and digital public health, scientific dissemination, clinical psychology, vaccine acceptance, and social integration, in the general and in vulnerable populations (including family caregivers). Members of the IPH apply and use several study designs including epidemiological, population-based studies, experimental studies, qualitative studies, media content analyses, systematic reviews, meta-analyses, and implementation research hybrid designs. Target populations include older adults (+65), younger adults (18-35), children and adolescents (>18), caregivers, and healthcare providers. Researchers at the IPH have strong collaborations at the local (e.g. Canton of Ticino, ProSenectute Ticino e Moesano, Alzheimer Ticino, SUPSI, ADiCASI, Consiglio degli Anziani, EOC), national (all Swiss universities, ETHZ, and EPFL) and international level (Virginia Tech, University of Verona, University of Vienna, and University of Milan, as well as with the World Health Organization, UNICEF, SDC, Public Health Schweiz, Swiss School of Public Health, Swiss TPH, Institute of Global Health in Geneva, and many NGOs based in Switzerland and abroad). The IPH has designed and launched the new Master of Science in Health (with the COM and ECO faculties at USI), and coordinates the Major in Digital Public Health, a new, and highly

innovative pre-grad program. Moreover, members of the IPH give courses in various USI Bachelor's degrees, and within the USI Master in Medicine, the Master of Science in Health, and the Master in Cognitive Psychology in Health Communication. Other graduate training courses include the SSPH+ Inter Graduate Campus courses, and the USI Net Megs executive master program, CAS in *comunicazione difficile*, and national and international guest lectures. The IPH is committed to promote the highest ethical and methodological standards in population sciences and embraces a strong participatory action research approach and community engagement of the public and of relevant stakeholders. Both research and training at the IPH ultimately aim to improve public health, to inform policy decisions and practices, and to contribute to positively influence individual behaviors and societal practices that promote and protect health, prevent diseases, and favor optimal and equitable care based on needs.

Institute of Family Medicine (IMF)

The Institute of Family Medicine (IMF), supported by the Faculty of Biomedical Sciences, works to strengthen the role of family doctors. The IMF collaborates with the Ordine dei Medici del Canton Ticino (OMCT), the Ente Ospedaliero Cantonale (EOC), the Department of Health and Social Affairs (DSS), and the Istituti Sociali of Lugano (LIS).

The objectives and tasks of the IMF, in line with its academic mission, include basic and continuing education, research, and community service. These are achieved through the establishment, strengthening, and coordination of network activities and treatment pathways, with a particular focus on vulnerable populations.

The family doctor is responsible for ensuring adequate and continuous care, maintaining consistency across various diagnostic and therapeutic interventions, and collaborating with interprofessional care teams.

The ISFM specialization for the physician performing this role can be in general internal medicine, pediatrics, psychiatry, or other fields, as long as continuous and holistic care is provided in line with the WONCA model. This model includes a holistic approach, person-centered care, community orientation, primary care focus, comprehensive approach, and problem-solving in complex contexts.

In summary, the family doctor is often considered the "personal doctor," meaning both one's own doctor and the doctor for the person as a whole.

The objectives of the IMF are as follows:

- Enhance the image of the family doctor by emphasizing their role as a specialist (currently, there is no in-depth training in general internal medicine specifically dedicated to family medicine). The family doctor ensures the adequacy, quality, and continuity of care. These are essential functions and values that need to be promoted and recognized.
- Increase attractiveness of family medicine
- Reorient training: general internal medicine training has traditionally been focused on hospital medicine, and there is a need to refocus on specific family medicine topics.
- Address the needs of the population: both the population and the health system would benefit from a new family medicine identity and targeted training.
- Innovate: the project is unique and innovative.

The Institute of family medicine (IMF) promotes clinical research in areas specific to family medicine with a focus on:

- Adequacy of care
- Over- and under-medicalisation
- Communication and health
- Culture and health
- Clinical ethics
- Health psychology
- Telemedicine in primary care
- New models of integrated care

The IMF staff currently includes the Director (Prof. Dr med Luca Gabutti), 3 family doctors, 1 senior consultant and some post-docs.

Faculty of Communication, Culture and Society

The Faculty of Communication, Culture, and Society brings extensive expertise across a wide range of health-related domains, including health communication, patient safety, health behavior, and health literacy. Until the academic year 2025/26, the Faculty offers a Master of Science in Health Communication. Starting from the academic year 2026/27, it will offer - jointly with the Faculties of Biomedicine and Economics - a Master of Science in Health. This interdisciplinary programme equips students with the knowledge and skills needed to understand health in its multiple dimensions. By selecting one of three majors - one of which is Health Communication - students develop specialized expertise and are prepared to contribute to innovative and sustainable solutions for the future of health. The Faculty includes three full-time, tenured professors specializing in health and health communication: Prof. Hannawa, Prof. Schulz, and Prof. Suggs.

“BeCHANGE” Research Group

Under the leadership of Prof. Suggs, the BeCHANGE (Social Marketing) research group conducts research within one of the core areas of the Institute of Communication and Public Policy (ICPP). The group investigates determinants of behaviour and behaviour change at the individual, built environment, and political levels, through the lens of science communication and public policy.

A central focus of the group is on health-related behaviours, as well as behaviours

intersecting health, sustainability, and the environment. The team develops and tests strategies aimed at making healthy behaviours easier to adopt, improving the communication of complex health information, and enhancing vaccine acceptance and uptake through evidence-based communication targeting both the public and healthcare professionals. Current research projects include national and international initiatives such as MenuCH-kids (Swiss Federal Office of Food Safety and Veterinary Affairs), Gender concepts and Nutrition In childhood (GeNI) (SNSF NRP 83), Growing Green Communities (EU Erasmus+), and Healthy-Sustainable Diets: Policy Actions and Consumer Practices (Horizon 2020/Marie Skłodowska-Curie/SSPH+ GlobalP3HS). The group maintains active collaborations with higher education institutions and public organisations and contributes to advanced teaching and doctoral training in social marketing, health communication, and science communication.

Web: <https://www.icpp.usi.ch/en/research/social-marketing>

“CAHQS” Center for the Advancement of Healthcare Quality & Safety

Established in 2016, the CAHQS is an international competence center dedicated to advancing healthcare quality and safety through applied communication science and interdisciplinary collaboration. Directed by Prof. Hannawa, CAHQS bridges the gap between social sciences and healthcare

practice, emphasizing communication as a critical determinant of patient safety outcomes.

Communication plays a pivotal role in various healthcare contexts — from sensitive provider-patient interactions and interprofessional teamwork to effective cooperation with caregivers and among healthcare institutions. Recognizing this, CAHQS employs evidence-based research to identify, analyze, and enhance communication practices, transforming critical points of interaction into resilient processes. This approach aims to fortify healthcare systems, minimize risks, and prevent avoidable harm.

The CAHQS team promotes interdisciplinary collaboration among experts from diverse fields, including communication science, medicine, nursing, psychology, and health policy. Its innovative, evidence-based solutions address major healthcare challenges, ensuring that research outcomes are directly applicable and actionable within real-world healthcare environments to continually elevate standards of quality and safety.

The CAHQS focuses on four critical areas, emphasizing communication as not merely supportive but essential to healthcare quality and safety:

1. Quality Care

Every healthcare interaction — be it within teams, between providers and patients, or across care institutions — represents an opportunity for communication to enhance or undermine the quality of care. CAHQS explores evidence-based communication practices that improve care coordination in resource-efficient ways while ensuring safe and patient-centered care.

2. Medication Safety

Medication errors frequently result from communication failures in prescribing or dispensing medications or in giving instructions. CAHQS investigates safety-relevant communication risks at these crossroads, developing evidence-based strategies to minimize medication-related risks and adverse drug events.

3. Error Prevention

Many preventable adverse events arise from critical communication failures during patient handovers, interprofessional

collaboration, and transitions between care institutions. CAHQS identifies how these communication breakdowns occur and designs targeted interventions to reinforce safety protocols, reducing associated risks.

4. Medical Error Disclosure

Communication surrounding medical errors significantly influences patient outcomes and trust in healthcare systems. Poorly managed disclosures can disrupt care, delay corrective actions, and damage patient-provider relationships. CAHQS ensures evidence-based standards for effective error disclosure, approaching it as an ongoing relational process rather than mere information transmission. It also emphasizes support for healthcare providers, recognizing their role as "second victims" who often experience significant distress following adverse events. By promoting provider resilience and reducing burnout, CAHQS strengthens the overall healthcare system's quality, safety, and sustainability.

Commitment to Healthcare Excellence

Through its interdisciplinary applied research and global network, CAHQS sustainably integrates evidence-based communication practices into healthcare standards, advancing safer practices and organizational cultures. This approach aims to transform critical communication risks into proactive opportunities for enhancing patient safety and quality care.

Web: www.patientsafetycenter.org

Institute of Economics

The Institute of Economics (IdEP; <http://www.idep.eco.usi.ch>) supports research and teaching activities in the broad field of economics and public management. The research interests of IdEP members also include health economics and public health, with a focus on issues of significant public interest such as population aging, cognitive decline, mental health, sleep deprivation, and the determinants of rising healthcare costs. In addition to its research mandate, IdEP organizes the **Master of Advanced Studies in Health Economics and Management (NETMEGS)** and from 2027 will coordinate the economic stream of the new **Master of Science in Health**. Since 2012, the Institute has also coordinated the **Center for Economic and Political Research on Aging (CEPRA)**. The Center aims to stimulate empirical research on population ageing, pension systems, and healthcare design and spending, while promoting academic training and disseminating research findings to both specialized and general audiences through workshops, conferences, and public debates. Since 2017, in collaboration with the **National Bureau of Economic Research (NBER)** – one of the world's most prestigious economic organizations – CEPRA has organized a biannual meeting on "Aging and Health" in Lugano. IdEP is a member of the **Swiss School of Public Health (SSPH+)** and the **Swiss Society of Health Economics (SGGÖ)**.

Peer-reviewed publications



Peer-reviewed publications

A comprehensive search of the PubMed/MEDLINE database was carried out independently by two different collaborators of the AFRi. The final search was performed in April 2026. The search query was designed using keywords relevant to the different locations of the EOC sites.

Peer-reviewed articles indexed in PubMed/MEDLINE that featured at least one EOC-affiliated co-author were selected. Only articles definitively published in a scientific journal issue during 2025 were included, thereby excluding “Online ahead of print” articles.

The Journal Quartile¹ of the scientific journals – determined by the Journal Impact Factor² - was also evaluated using data from the Journal Citations Reports (JCR) 2024 (released in 2025).

Applying the aforementioned inclusion and exclusion criteria, the scientific output of EOC researchers culminated in **803 peer-reviewed publications**. As illustrated in Figure 3, research production has remained on high levels in 2025, reinforcing the positive trend observed during the previous years

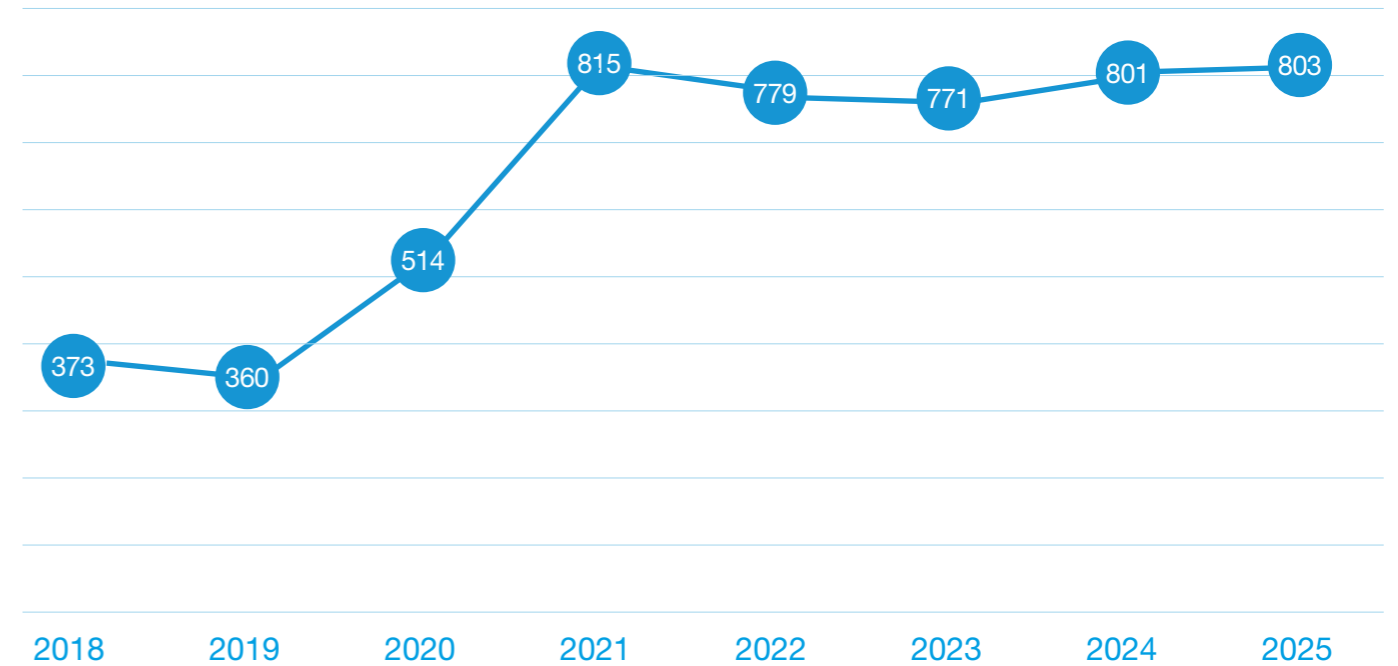


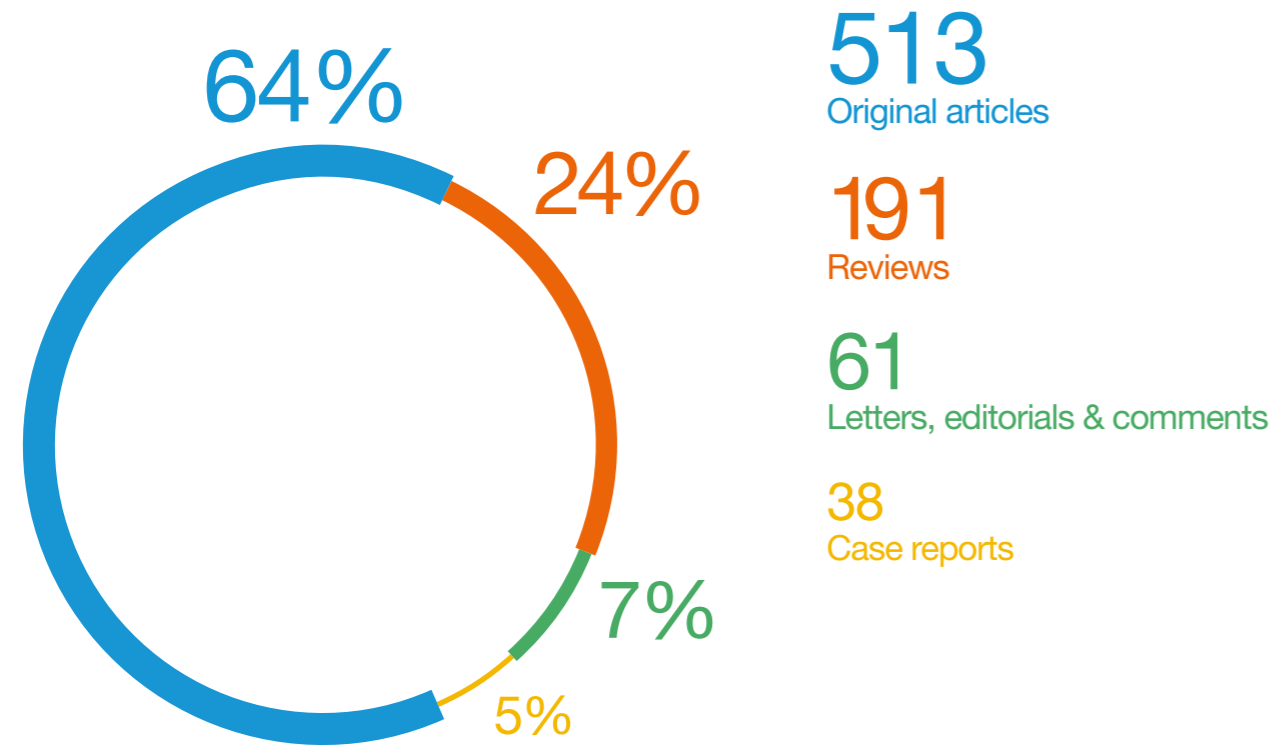
Figure 3.
Number of EOC peer-reviewed articles since 2018
(Source: PubMed)

Most peer-reviewed publications in 2025 were original articles or reviews (**704**, 88%) in line with 2024 (87%). Scientific quality remained consistently high in 2025: two-thirds of the original articles and reviews (**458**) appeared in high-rated Q1 journals, matching our benchmark from last year (434). This sustained high-level scientific quality is reflected in a 15% growth in first or last authored original or reviews articles (**306**, 43%) from EOC, alongside a 22% increase of these articles published in Q1 journals

(**196**). Even in 2025, the important network of international and national collaborations fostered the EOC research and accounted for the majority of the publications (91%). Key data are summarized in figures 4-8.

¹ Scientific journals are assigned to a subject category by JCR and ranked by Journal Impact Factor. The Journal rank is then transformed in a percentile value. The Journal percentile is used to calculate the Journal Quartile. Q1: Journal percentile ≥ 75; Q2: 75 < Journal percentile ≤ 50; Q3: 50 < Journal percentile ≤ 25; Q4: 25 < Journal percentile (Source: Clarivate Analytics).

² Journal Impact Factor is calculated by dividing the number of current year citations to the source items published in that journal during the previous two years. A Journal Impact Factor of 1.0 means that, on average, the articles published one or two years ago have been cited one time (Source: Clarivate Analytics).

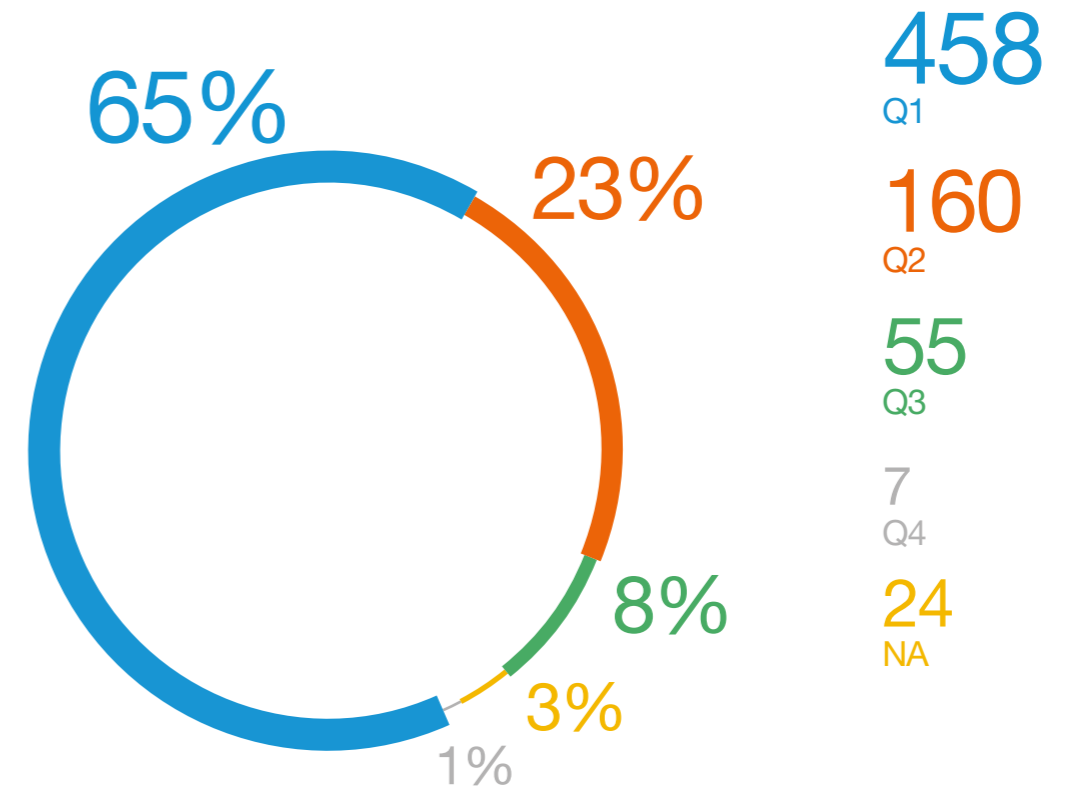


513
Original articles

191
Reviews

61
Letters, editorials & comments

38
Case reports



458
Q1

160
Q2

55
Q3

7
Q4

24
NA

Figure 4.
Number and type
of peer-reviewed
articles published
in 2025 (N = 803)

Meta-analyses, surveys, research letters, consensus and delphi-based consensus papers are classified as original articles. Systematic reviews without meta-analyses and protocols are classified as reviews.

Figure 5.
Journal Quartile
of the scientific
journals in which
peer-reviewed original
and review articles
were published in
2025 (N = 704)

Journals can appear in multiple subject categories; in this case, the highest Journal Quartile was selected. Scientific journals without Journal Impact Factor are classified as NA.

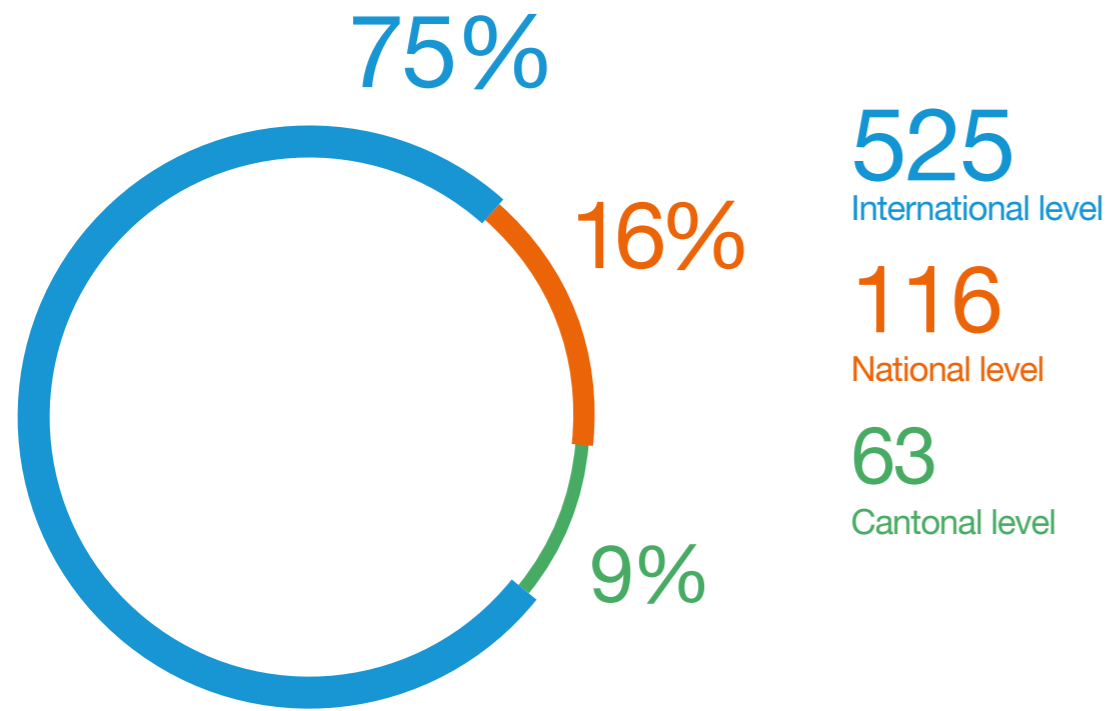


Figure 6.
Type of scientific collaboration (local, national of international) in peer-reviewed original and review articles published in 2025 (N = 704)

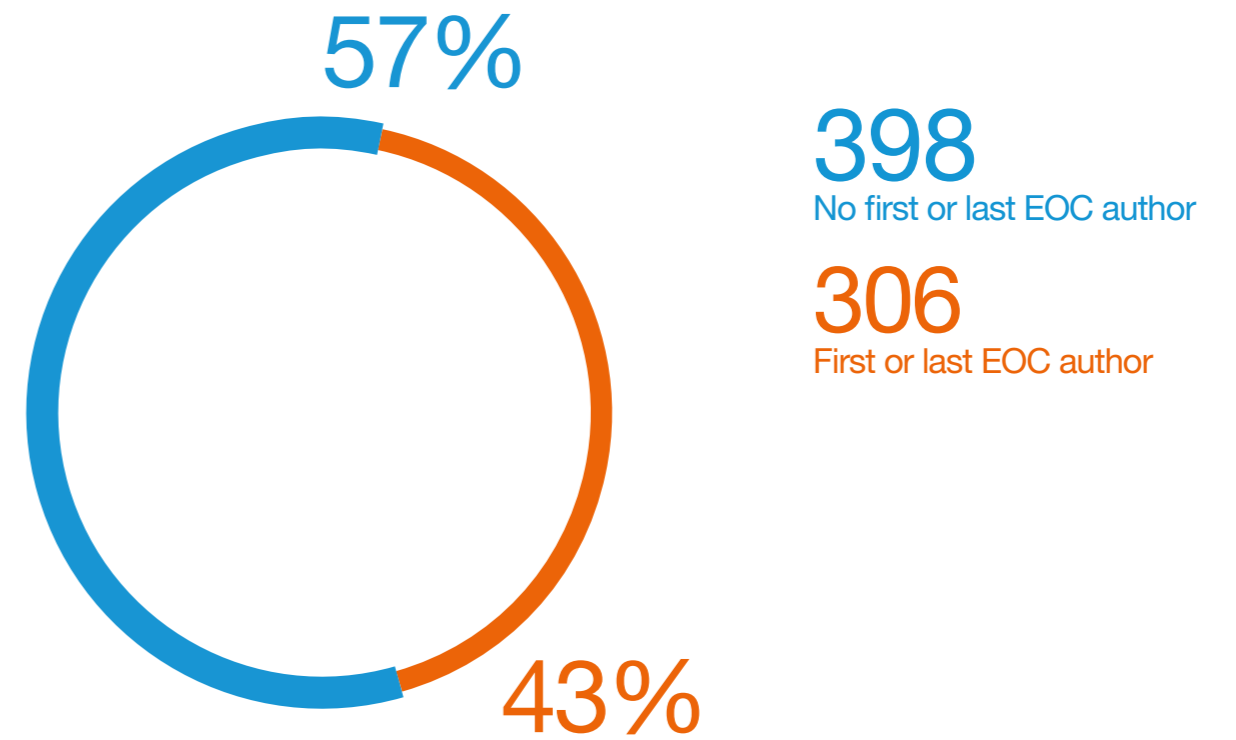


Figure 7.
Number of peer-reviewed original and review articles published by EOC researchers as first or last author in 2025 (N = 704)

Original articles Reviews Other

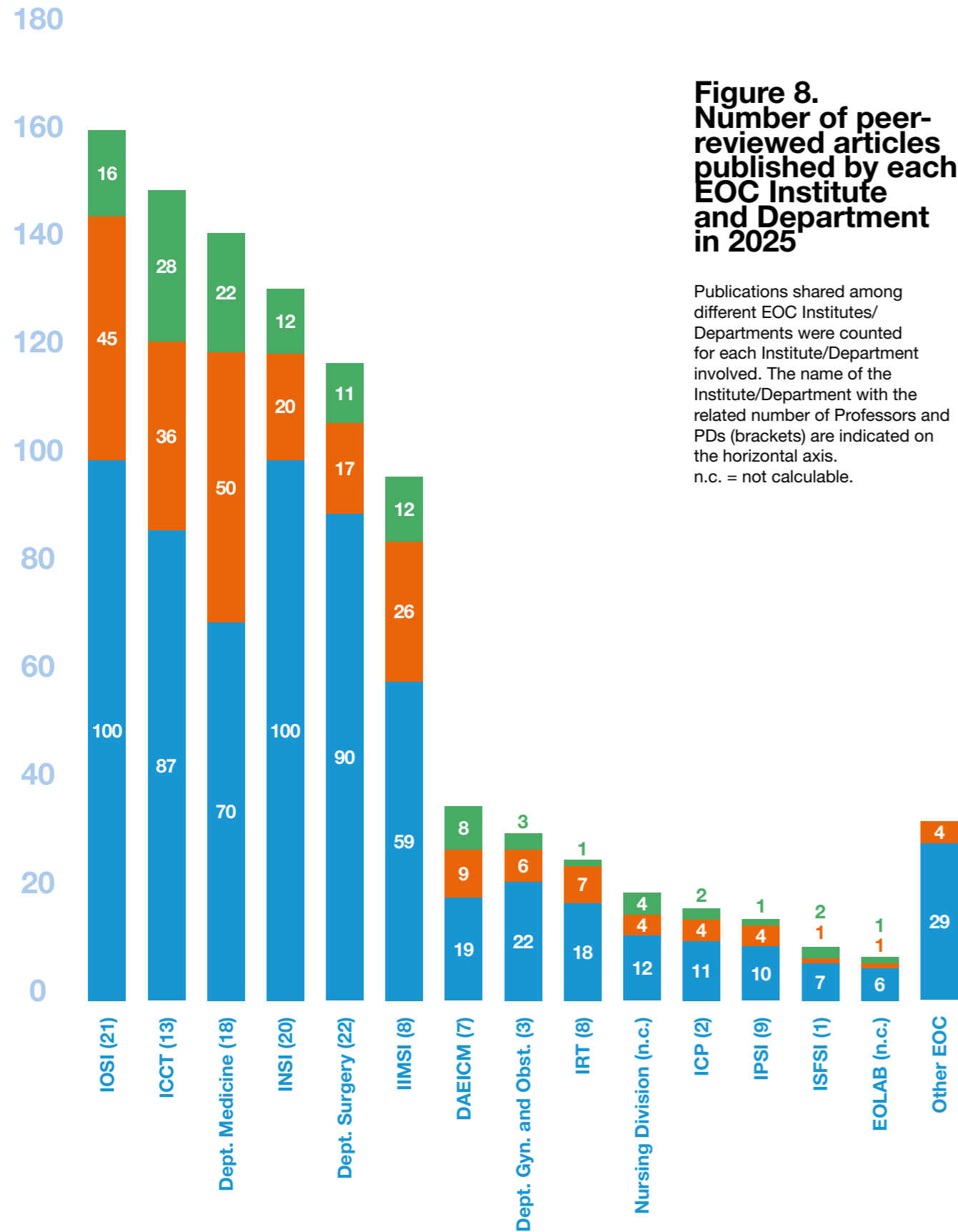


Figure 8. Number of peer-reviewed articles published by each EOC Institute and Department in 2025

Publications shared among different EOC Institutes/ Departments were counted for each Institute/Department involved. The name of the Institute/Department with the related number of Professors and PDs (brackets) are indicated on the horizontal axis. n.c. = not calculable.

Overall, EOC research outputs demonstrated exceptional productivity and quality in 2025, sustaining the robust growth seen since 2021. Strong collaborative ties drive clinical and translational research across EOC hospitals and laboratories. A major highlight is the surge in publications in top-ranked (Q1) journals, particularly with EOC researchers acting as first or last authors. This upward trajectory underscores EOC's commitment to advancing medical knowledge and fostering national and international collaborations to shape future innovations in research and healthcare.

Newly activated research projects



Research projects conducted at the EOC hospitals and laboratories are recorded into a dedicated database. In 2025, a total of **114** research projects involving persons that require authorization by the Ethics Committee and/or Swissmedic were activated, slightly increasing from 2024 (111). As of 31.12.2025, **494** research projects were ongoing at the EOC hospitals and laboratories³.

use of pre-existing health-related data and/or biological material” (38). The remaining were clinical trials⁵ (N=40) of which 47.5% investigating medicinal products, 30% other interventions which are neither medicinal or transplant products (i.e., other clinical trials), 22% medical devices. According to available data, EOC researchers conceived and promoted 58 research projects in 2025, which were mostly non-clinical trials (N=47).

Figure 9 shows the number of EOC research projects by type of research: about two-thirds (65%, 74) were non-clinical trials⁴, almost equally divided between the sub-categories “research involving persons” (36) and “further

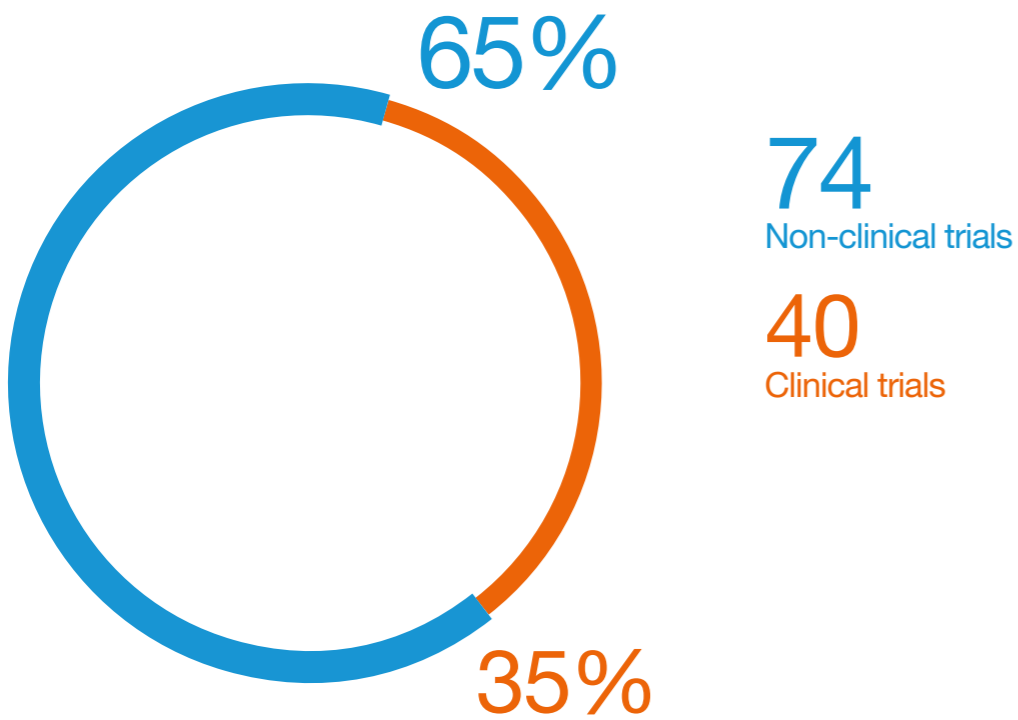


Figure 9.
Number of EOC research projects activated in 2025 (N = 114)

³ Data only available from 2021. Research projects activated prior to 2021 and still ongoing are not included in the metrics.

⁴ Non-clinical trials are research projects in which biological material is sampled or health-related personal data is collected from a person in order to: (a) answer a scientific question; or (b) make further use for research purposes of the biological material or the health-related personal data (Source: Human Research Ordinance, HRO).

⁵ Clinical trials are research projects involving individuals that prospectively assigns them to undergo one or more interventions in order to study the effects thereof on health or on the structure and function of the human body (Clinical Trials Ordinance, ClinO).

As shown in Figure 10, about half of the EOC research projects involved more than one participating site internationally (N=20) or nationally (N=30).

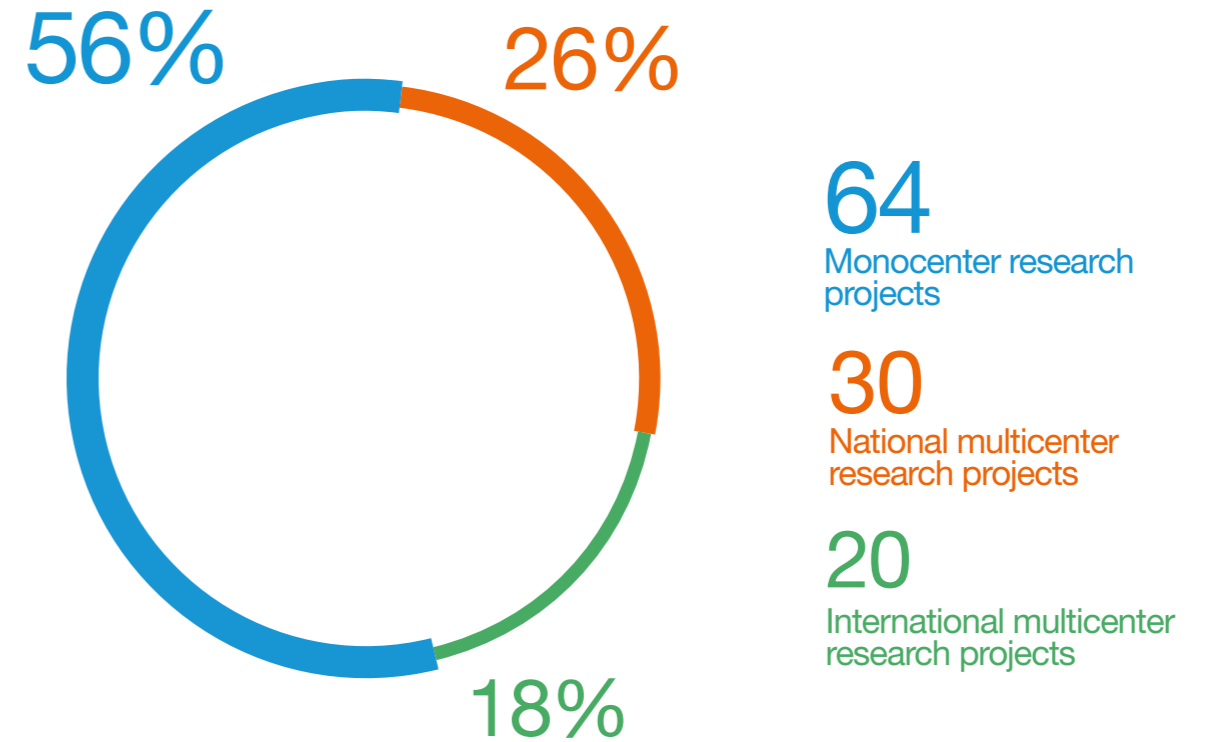


Figure 10.
Number of EOC research projects with single or multiple participating sites activated in 2025 (N = 114)

Despite a slight increase in newly activated research projects across EOC hospitals and laboratories in 2025, the overall statistics are consistent with the data reported in previous years.

External funding for research projects



In 2025, EOC secured approximately CHF 12 million in external funding to support its clinical and translational research activities, remaining stable compared to the previous year. Of this total, around 75% was allocated

to clinical research and 25% to translational research projects. Funding was sourced from industry collaborations, competitive grants, and institutional partnerships.

External Funding Overview for Clinical Research

In 2025, the total external funding for clinical research activity amounted to CHF 9'067'325. This represents a slightly growing

funding base (3%) compared to the previous year. The main sources of external funding are shown in Figure 11.

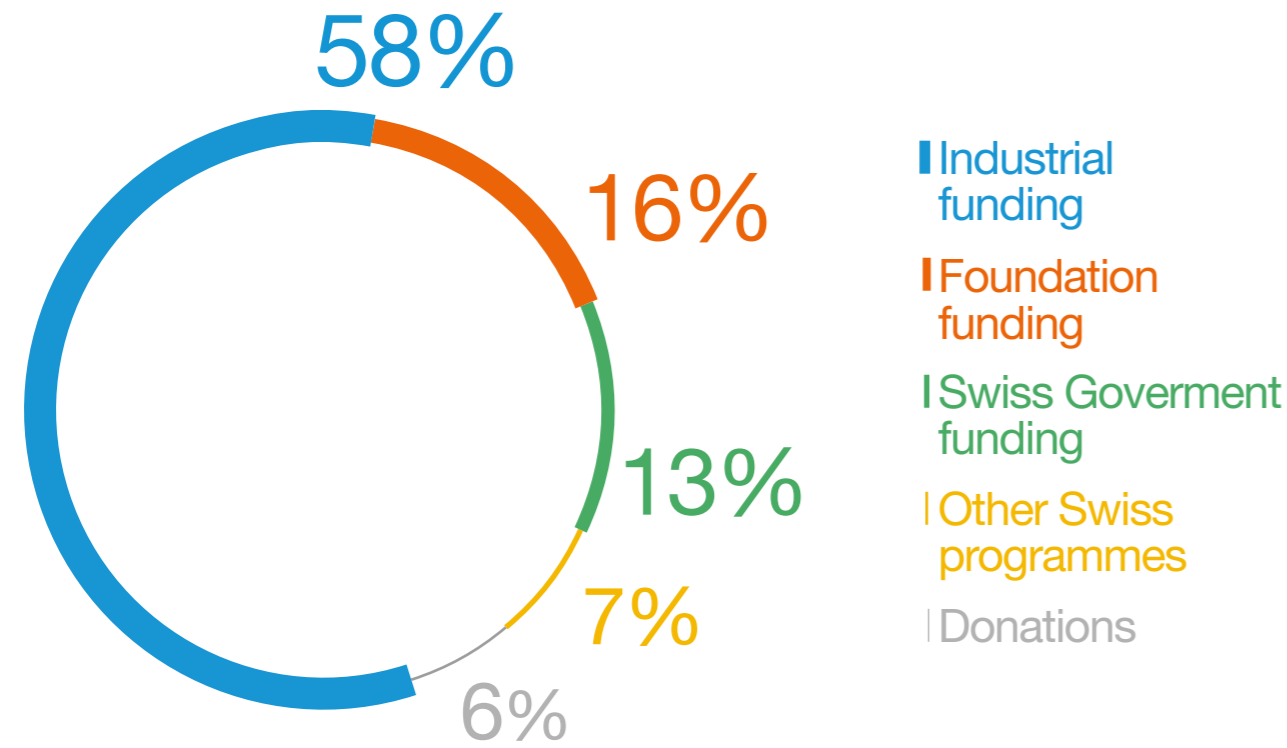


Figure 11.
Funding sources for clinical research in 2025

102

Industrial funding remained the largest source of income, rising significantly from 38% in 2024 to 58% (CHF 5'263'488) in 2025. This reflects strong collaboration with industry partners and an increasing reliance on applied research partnerships. In 2025, Swiss government funding accounted for 13% of total external funding (CHF 1'169'664). The decrease from 27% in the previous year does not reflect a structural decline, but rather timing differences between recorded revenues and newly approved grants. Indeed, during 2025, we secured Swiss government grants from the Swiss National Science Foundation (SNSF), Health agencies and Innosuisse totaling CHF 3'114'975. Overall, grants amounting to CHF 4'101'075 were awarded by various external funders to support independent clinical research. The revenues associated with these newly approved grants will be reflected in subsequent years.

Foundation funding contributed 16% (CHF 1'486'028), maintaining an important but slightly declining role in supporting clinical research activities. Other Swiss programmes remained stable, contributing 7% (CHF 632'885), demonstrating consistent national support outside core government funding. Finally, donations contributed 6% (CHF 515'259), representing an additional complementary funding stream. Individual and private donors continue to support and believe in our research activities, with smaller yet significant contributions that play an important role in advancing clinical research. External funding was primary driven by ICCT, IOSI, INSI and Department of Medicine (Figure 12).

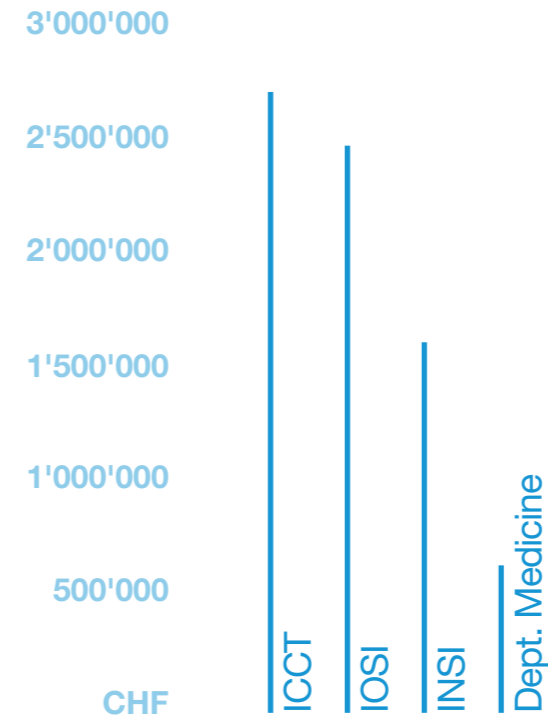


Figure 12.
Main contributors of external funding in 2025 for clinical research

External funding plays a crucial role in supporting clinical research in EOC. It enables the development and testing of innovative therapies and facilitates access to advanced technologies to improve clinical practice. Industry partnerships provide essential resources that complement public and philanthropic funding, ensuring the sustainability and competitiveness of

research activities. EOC actively fosters collaboration among clinicians, researchers, and industry and academic partners; in this context, external funding is indispensable for advancing expertise and shaping clinical research agendas. Ultimately, these efforts support the generation of new knowledge and contribute to improved patient care and outcomes within EOC.

External Funding Overview for Translational Research

Translational research at EOC is conducted by the Institute for Translational Research (IRT), a joint institute of EOC and USI. Alongside the significant operational changes in 2025 following the establishment of the new institute, IRT maintained stable access to competitive grant funding compared to the previous year. The IRT research divisions received a total of CHF 2'956'691 competitive grants. The majority of funding for translational research (Figure 13) came from Swiss government funding (CHF 1'270'479), particularly from SNSF, which highlights the quality and innovation of the research conducted at IRT. The second main source of external funding for IRT came from foundations (CHF 1'000'967), which play a key role in supporting early-stage projects and establishing the basis for future

competitive funding opportunities. European and international programmes contributed with research funding of CHF 396'687, while industrial funding accounted for CHF 288'558, which demonstrate the IRT's ability to develop a network of industrial partnerships, as well as collaborations at the European and international level beyond Switzerland

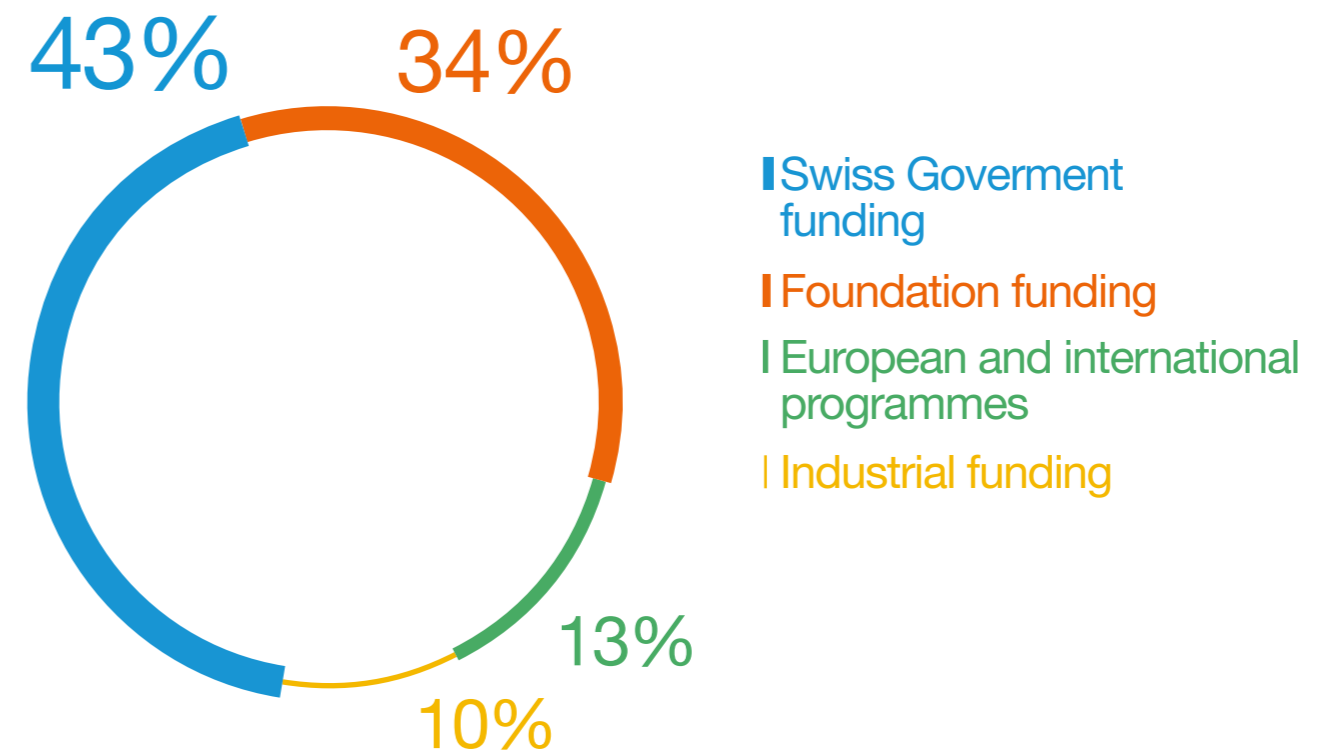


Figure 13.
Funding sources for translational research in 2025

Research highlights in 2025



- Overall, **EOC research activities throughout 2025** sustained the growth in productivity and the quality of the scientific outputs seen during the previous years.
- **803** peer-reviewed scientific articles were published, with **original and review articles accounting for 88% (704) of the total**.
- Original and review articles (458, 65%) published in high-rated scientific journals (**Q1 ranking**) **slightly increase over 2024** (62%), confirming the high quality of the EOC scientific production.
- The EOC research footprint increased significantly, with **first- or last-authored original and review articles (306, 43%) rising by 15% from 2024**. Notably, the number of these articles published in highly-ranked Q1 journals surged by 22% (196), demonstrating that numerous high-impact research projects are being successfully developed and conducted at EOC.
- A robust **network of national and international collaborations** has driven clinical and translational research across EOC hospitals and laboratories, fostering significant scientific production (91% of peer-reviewed articles).
- **114 new research projects** involving persons – 74 non-clinical and 40 clinical trials – were activated and 494 research projects were ongoing at the EOC hospitals and laboratories.
- **CHF 12 Mio of external funding** was obtained for clinical and translational research activities. Approximately 75% (CHF 9 Mio) of this funding was allocated to clinical research, primarily driven by ICCT, IOSI, INSI and Dept. of Medicine, while 25% was dedicated to translational research projects.
- **Most funding for clinical research came from industry** (58%), reflecting strong strategic partnerships that support innovative studies aimed at improving patient diagnosis and treatment. **In translational research, the Swiss National Science Foundation (SNSF) remained the main funding source** (43%), highlighting the scientific rigor and quality of our research activities.

Complete list of publications



Publications are listed in alphabetical order. EOC authors are highlighted in bold.

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List of publications by Institute/ Department



Oncology Institute of Southern Switzerland

Publications are listed in alphabetical order for each section: **original articles** (including meta-analyses, surveys, research letters, consensus and delphi-based consensus paper); **reviews** (including systematic reviews without meta-analyses, protocols); **editorials or letters or comments**; **case reports**. EOC authors affiliated with the Institute/Department are highlighted in bold.

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Additional publications with EOC collaborators

- Catanuto G, Gentile D, Martorana F, Tomatis M, Ponti A, Marotti L, Aristei C, Cardoso MJ, Cheung KL, Curigliano G, De Vries J, Karakatsanis A, Santini D, Sardanelli F, Van Dam P, Rubio IT; EUSOMA Working Group (**Rossi L**). Clinico-pathological features predicting indication to mastectomy in breast cancer patients achieving complete response after neoadjuvant therapy: A retrospective analysis of the EUSOMA database. *Eur J Surg Oncol*. 2025;51:109643. PMID [40009908](#)

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Publications are listed in alphabetical order for each section: **original articles** (including meta-analyses, surveys, research letters, consensus and delphi-based consensus paper); **reviews** (including systematic reviews without meta-analyses, protocols); **editorials or letters or comments**; **case reports**. EOC authors affiliated with the Institute/Department are highlighted in bold.

Original articles

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Cardiocentro Ticino Institute

Publications are listed in alphabetical order for each section: **original articles** (including meta-analyses, surveys, research letters, consensus and delphi-based consensus paper); **reviews** (including systematic reviews without meta-analyses, protocols); **editorials or letters or comments**; **case reports**. EOC authors affiliated with the Institute/Department are highlighted in bold.

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Publications are listed in alphabetical order for each section: **original articles** (including meta-analyses, surveys, research letters, consensus and delphi-based consensus paper); **reviews** (including systematic reviews without meta-analyses, protocols); **editorials or letters or comments**; **case reports**. EOC authors affiliated with the Institute/Department are highlighted in **bbold**.

Original articles

1. Abolhassani N, **Nosedo R**, Dao K, Girardin FR, **Bedussi F**, **Ceschi A**, Panchaud A, Winterfeld U. Janus Kinase Inhibitors During Pregnancy and Adverse Drug Reactions: A Pharmacovigilance Disproportionality Analysis in VigiBase. *Clin Transl Sci*. 2025;18:e70429. PMID [41305879](#)
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Publications are listed in alphabetical order for each section: **original articles** (including meta-analyses, surveys, research letters, consensus and delphi-based consensus paper); **reviews** (including systematic reviews without meta-analyses, protocols); **editorials or letters or comments**; **case reports**. EOC authors affiliated with the Institute/Department are highlighted in bold.

Original articles

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Department of Anesthesiology, Emergency and Intensive Care Medicine EOC

Publications are listed in alphabetical order for each section: **original articles** (including meta-analyses, surveys, research letters, consensus and delphi-based consensus paper); **reviews** (including systematic reviews without meta-analyses, protocols); **editorials or letters or comments**; **case reports**. EOC authors affiliated with the Institute/Department are highlighted in bold.

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Clinical Trial Unit EOC

Publications are listed in alphabetical order for each section: **original articles** (including meta-analyses, surveys, research letters, consensus and delphi-based consensus paper); **reviews** (including systematic reviews without meta-analyses, protocols); **editorials or letters or comments; case reports**. EOC authors affiliated with the Institute/Department are highlighted in bold.

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Other EOC Services

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