

2020 HIGHLIGHTS

- A significant number of peer-reviewed scientific articles was published by EOC researchers in 2020 (N = 514), most of them as original or review articles (N = 423, 82%). Overall, the number of publications increased by 43% compared to 2019. Notably, 10% of scientific publications were related to COVID-19.
- Peer-reviewed original and review articles were published in scientific journals showing very heterogeneous Journal Impact Factors (IFs) with a median value of 3.389.
- Half of peer-reviewed original and review articles were published in scientific journals ranked in the Journal IF quartile Q1, demonstrating the high quality of the EOC scientific production in 2020.
- Nearly 95% of peer-reviewed original and review articles published in 2020 were the result of national or international collaborations.
- The EOC researcher was the first or last author in half of the peer-reviewed original and review articles; this finding demonstrates that many of the research projects have been conceived and conducted at EOC.
- 131 new research projects involving persons were activated in 2020.
- 260 ongoing funded research projects.
- More than 3'000'000 CHF of external funding in 2020, with INSI, IOSI, and the Departments of Surgery and Medicine, respectively, achieving the highest funding for current ongoing research projects.
- Overall, we observe a significant increase in EOC research activities and output in 2020 compared to the previous years.

The complete 2020 scientific report, including the list of publications, is available via QR Code or online:

www.eoc.ch/RS20



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Academic Education, Research and Innovation Area



Scientific Report 2020

Partnership with:



INTRO

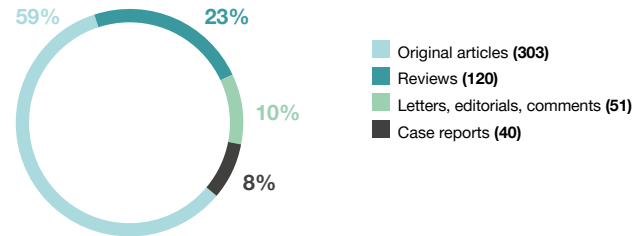
This annual scientific report summarizes the research activities at the Institutes and Departments of the Ente Ospedaliero Cantonale (EOC) and at the Università della Svizzera italiana (USI) in the field of medical research for the year 2020. This format reflects the increasing integration between research conducted at the two institutions following the creation of the USI Faculty of Biomedical Sciences and the signature of a research cooperation agreement in 2020.

Although the COVID-19 pandemic significantly affected the EOC activity, an increase of the scientific production is documented in 2020. Two main hypotheses can explain this finding: first, the positive influence of the USI Faculty of Biomedical Sciences and second, the development of new research areas, including those related to COVID-19. Overall, throughout 2020, the EOC Institutes and Departments, including the research laboratories, produced high-quality research attaining broad recognition at national and international level.

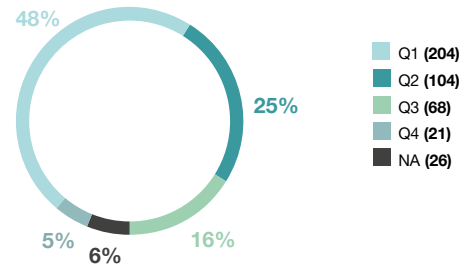
Together with patient care and education, research is an essential part of EOC activities. Bringing research close to practice facilitates the development of clinical studies and the monitoring of the effectiveness of clinical interventions and care processes, guarantees the quality and safety of services provided to patients and ensures that patients benefit from innovative diagnostic methods and therapies. Furthermore, the steady growth in quantity and quality of research activities at EOC is paramount for the USI Faculty of Biomedical Sciences and is in line with the 2018-2021 EOC strategic plan for a Cantonal Hospital of national and academic value.

DATA

Number and type of peer-reviewed articles published by EOC researchers in 2020 (N = 514)

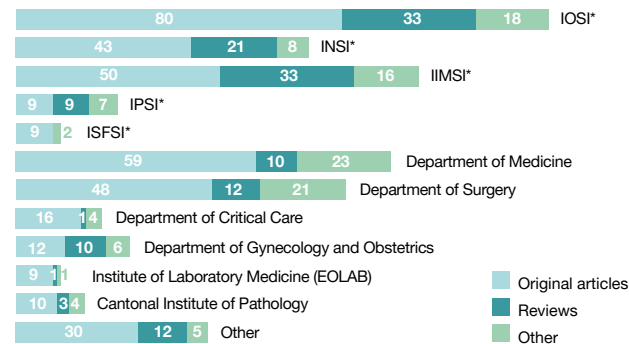


Journal IF Quartile of the scientific journals in which peer-reviewed original and review articles were published by EOC researchers in 2020 (N = 423)



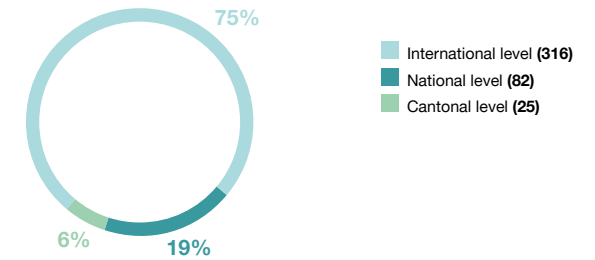
Number of peer-reviewed articles published by EOC Institutes and Departments in 2020 (N = 514)

Shared publications counted for each Institute/Department involved.

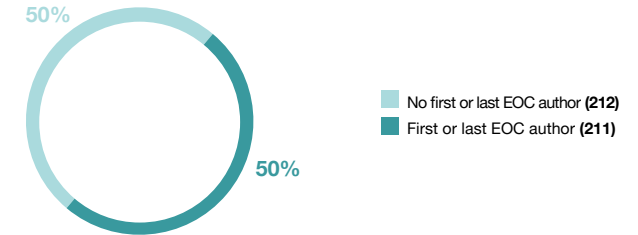


*IOSI = Oncology Institute of Southern Switzerland
 *INSI = Institute of Clinical Neurosciences of Southern Switzerland
 *IIMSI = Imaging Institute of Southern Switzerland
 *IPSI = Institute of Pediatrics of Southern Switzerland
 *ISFSI = Institute of Pharmacological Sciences of Southern Switzerland

Type of scientific collaboration taking into account peer-reviewed original and review articles published by EOC researchers in 2020 (N = 423)



Number of peer-reviewed original and review articles published by EOC researchers as first or last author in 2020 (N = 423)



Number of EOC research projects involving persons activated in 2020 (N = 131)

