

## Special Issue

# Craniomaxillofacial Surgery 4.0: Personalized Digital Planning, Augmented Reality, Point-of-Care Manufacturing and Molecular Data Integration

### Message from the Guest Editors

This Special Issue aims to explore and disseminate the most recent and impactful advancements in Craniomaxillofacial Surgery 4.0. It will focus on how digital planning, point-of-care manufacturing, advanced visualization technologies, and molecular data integration are revolutionizing the field. The scope covers both clinical and translational research, including technological development, case series, workflow innovation, and patient-centered approaches. We are particularly interested in contributions that address the following topics:

- Point-of-care manufacturing of patient-specific implants and surgical guides;
- Integration of 3D printing into preoperative planning and intraoperative navigation;
- Applications of augmented, virtual, and mixed reality in reconstructive and orthognathic surgery;
- Implant-guided rehabilitation strategies in oncologic maxillofacial patients;
- Smart surgical instruments (SSIs) and real-time intraoperative feedback systems;
- Omics-based approaches for surgical planning and tumor stratification;
- AI-based surgical planning, decision support systems, and data analytics.

---

### Guest Editors

Dr. Maria J. Troulis

Department of Oral and Maxillofacial Surgery, Massachusetts General Hospital, Harvard School of Dental Medicine, and Harvard Medical School, Boston, MA 02114, USA

Dr. Manuel Tousidonis

Department of Oral and Maxillofacial Surgery, Gregorio Marañón University Hospital, 28007 Madrid, Spain

---

### Deadline for manuscript submissions

closed (20 January 2026)



## Medicina

---

an Open Access Journal  
Published by MDPI

---

Impact Factor 2.4  
CiteScore 4.1  
Indexed in PubMed



[mdpi.com/si/239200](https://mdpi.com/si/239200)

*Medicina*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[medicina@mdpi.com](mailto:medicina@mdpi.com)

[mdpi.com/journal/  
medicina](https://mdpi.com/journal/medicina)





# Medicina

---

an Open Access Journal  
Published by MDPI

---

Impact Factor 2.4  
CiteScore 4.1  
Indexed in PubMed



[mdpi.com/journal/  
medicina](https://mdpi.com/journal/medicina)



## About the Journal

### Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Medicina* (ISSN: 1648-9144). *Medicina* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on medicine. The scientific community and the general public can access the content free of charge as soon as it is published.

---

### Editor-in-Chief

Prof. Dr. Edgaras Stankevičius  
Medical Academy, Lithuanian University of Health Sciences, Kaunas,  
Lithuania

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, and other databases.

#### Journal Rank:

JCR - Q1 (Medicine, General and Internal) / CiteScore - Q1 (General Medicine)