



Current and Emerging Technologies and Applications of Endoscopy in Clinical Practice—Second Edition

Guest Editors:

**Prof. Dr. Anastasios
Koulaouzidis**

**Prof. Dr. Georgios
Koulaouzidis**

Prof. Wojciech Marlicz

Prof. Gastone Ciuti

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Message from the Guest Editors

New advancements in gastrointestinal (GI) diagnostics are intriguing, trendy, and particularly useful in the post-pandemic era. With the endoscopy market poised to surpass \$40 billion by 2030, the long-awaited arrival of AI in endoscopy, and the pandemic's added strain on GI diagnostic and screening procedures, novel devices and robotics are primed for a major breakthrough. When it first appeared in clinical practice, capsule endoscopy (CE) was a real breakthrough, allowing for direct visualization of the small bowel without sedation or the need for a dedicated, fully equipped endoscopy room. However, the dream of replacing conventional equipment with a complete and cheap “mouth-to-anus” GI examination has not yet been materialized. Moreover, rural/remote and low-income regions/countries can never be fully covered in terms of specialist care. Therefore, what is next for GI endoscopy? New and cheaper devices, robotic technologies, AI-supported systems, and the embedding of such technology into a telemedical environment would allow it to meet the criteria for future, personalized diagnosis and treatment, reducing inequalities in healthcare provision.





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Editors-in-Chief

Prof. Dr. Emmanuel Andrès

Internal Medicine Department,
University Hospital Strasbourg,
67000 Strasbourg, France

Prof. Dr. Kent Doi

Department of Emergency and
Critical Care Medicine, University
of Tokyo, Tokyo 113-8655, Japan

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Journal of Clinical Medicine Editorial
Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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