

Special Issue

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

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.

Guest Editors

Prof. Dr. Anastasios Koulaouzidis

Prof. Dr. George Koulaouzidis

Dr. Wojciech Marlicz

Prof. Gastone Ciuti

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Journal of Clinical Medicine
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcm@mdpi.com

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