

# Journal of Digestive Endoscopy

Official Publication of Society of Gastrointestinal Endoscopy of India

## Editor-in-Chief

### Dr. Mahesh Kumar Goenka

Department of Gastroenterology,  
Apollo Multispeciality Hospitals,  
Kolkata, India

## Editors Emeritus

### Dr. S. A. Zargar

Department of Gastroenterology  
Bismillah Gastro Centre, Srinagar, India

### Dr. Rakesh Kochhar

Department of Gastroenterology,  
Fortis Hospital, Mohali, India

## Senior Editors (Sectional)

### Dr. Uday Chand Ghoshal (Luminal)

Department of Gastroenterology  
Sanjay Gandhi Post Graduate  
Institute of Medical Sciences,  
Lucknow, India

### Dr. Rajesh Puri (Pancreaticobiliary)

Department of Gastroenterology  
Medanta - The Medicity Hospital,  
Gurugram, India

### Dr. Surinder Singh Rana (EUS)

Department of Gastroenterology,  
Post Graduate Institute of Medical  
Education and Research (PGIMER),  
Chandigarh, India

## Video Section

### Dr. Amol Bapaye

Department of Gastroenterology  
Deenanath Mangeshkar Hospital and  
Research Center,  
Pune, India

### Dr. Gajanan Rodge

Department of Gastroenterology,  
Apollo Multispeciality Hospitals,  
Kolkata, India

## Editors

### National Editors

#### Dr. Govind Makharia

Department of Gastroenterology,  
All India Institute of Medical Sciences  
(AIIMS)  
New Delhi, India

#### Dr. Virendra Singh

Department of Hepatology,  
Post Graduate Institute of Medical  
Education and Research (PGIMER),  
Chandigarh, India

#### Dr. Sandeep Nijhawan

Department of Gastroenterology,  
Sawai Man Singh Medical  
College and Hospitals, Jaipur, India

#### Dr. Mathew Philip

Department of Gastroenterology, Lisie  
Hospital, Kochi, India

#### Dr. Praveer Rai

Department of Gastroenterology  
Sanjay Gandhi Post Graduate  
Institute of Medical Sciences, Lucknow,  
India

#### Dr. Sundeep Lakhtakia

Department of Gastroenterology  
Asian Institute of Gastroenterology,  
Hyderabad, India

#### Dr. Vineet Ahuja

Department of Gastroenterology,  
All India Institute of Medical Sciences  
(AIIMS)  
New Delhi, India

#### Dr. Manu Tandan

Department of Gastroenterology  
Asian Institute of Gastroenterology,  
Hyderabad, India

#### Dr. Saurabh Mukewar

Department of Gastroenterology  
Midas Hospital, Nagpur, India

#### Dr. Sudipta D. Chowdhury

Department of Gastroenterology  
Christian Medical College,  
Vellore, India

### Dr. Vikas Singla

Department of Gastroenterology  
Max Super Speciality Hospital,  
Saket, New Delhi, India

### Dr. Vinay Dhir

Department of Gastroenterology  
Institute of Digestive and Liver Care,  
Mumbai, India

### Dr. Manoj Sahu

Department of Gastroenterology Ims  
& Sum Hospital, Bhubaneswar, India

### Dr. Usha Goenka

Department of Radiology,  
Apollo Multispeciality Hospitals,  
Kolkata, India

### Dr. Yogesh Harwani

Department of Gastroenterology  
Noble Gastro Hospital, Ahmedabad, India

## International Editors

### Dr. Prateek Sharma

Department of Gastroenterology  
Kansas University Medical Center,  
Kansas City, MO, USA

### Dr. Shyam Sundar Varadarajulu

Department of Gastroenterology  
Advent Health Orlando,  
Orlando, FL, USA

### Dr. Nalini Guda

GI Associates, Milwaukee, WI, USA

### Dr. Fabian Emura

Department of Gastroenterology  
Universidad de La Sabana, Bogota

### Dr. Anthony Teoh

Department of Gastroenterology  
The Chinese University of Hong Kong,  
Hong Kong

### Dr. Mostafa Ibrahim

Department of Gastroenterology  
Theodor Bilharz Research Institute, Cairo

### Dr. Manoop Bhutani

Department of Gastroenterology,  
Hepatology & Nutrition,  
The University of Texas MD Anderson  
Cancer Center, Houston, TX, USA

### Advisory Board

---

#### National Advisory Board

---

##### Adarsh Chaudhary

Department of Gastrointestinal  
Surgery  
Medanta The Medicity Hospital,  
Gurugram, India

##### Dr. D. N. Reddy

Department of Gastroenterology  
Asian Institute of Gastroenterology,  
Hyderabad, India

##### Dr. T.S. Chandrasekar

Department of Gastroenterology  
Medindia Hospitals,  
Chennai, India

##### Dr. Ajay Kumar

Department of Gastroenterology  
BLK Super Speciality Hospital,  
New Delhi, India

##### Dr. Ashok Chako

Department of Gastroenterology  
Madras Medical Mission, Chennai,  
India

##### Dr. G.V. Rao

Department of Surgical  
Gastroenterology  
Asian Institute of Gastroenterology,  
Hyderabad, India

##### Dr. Pramod Garg

Department of Gastroenterology,  
All India Institute of Medical Sciences  
(AIIMS) New Delhi, India

##### Dr. Randhir Sud

Department of Gastroenterology  
Medanta The Medicity Hospital,  
Gurugram, India

##### Dr. Amit Maydeo

Department of Gastroenterology  
Global Hospital, Mumbai, India

#### International Advisory Board

---

##### Dr. Nimish Vakil

Department of Gastroenterology  
Aurora Sinai Medical Center,  
Milwaukee, WI, USA

##### Dr. J. H. Moon

Department of Gastroenterology  
Soon Chun Hyang University, Seoul,  
Korea

##### Dr. H Neuhaus

Department of Gastroenterology  
Evangelisches Krankenhaus Düsseldorf,  
Düsseldorf, Germany

##### Dr. Guido Costamagna

Department of Surgery and  
Digestive Endoscopy  
Università Cattolica del Sacro Cuore,  
Italy

##### Dr. Kulwinder Dua

Department of Gastroenterology  
Medical College of Wisconsin,  
Milwaukee, WI, USA

#### Editorial Assistants

---

##### Dr. Shivaraj Afzalpurkar

Department of Gastroenterology,  
Apollo Multispeciality Hospitals,  
Kolkata, India

##### Dr. Madhurima Chakraborty

Department of Gastroenterology,  
Apollo Multispeciality Hospitals,  
Kolkata, India

**Governing Council**  
**Society of Gastrointestinal**  
**Endoscopy of India**

---

**President**

Vinay Dhir

**President Elect**

Sundeep Lakhtakia

**Vice-President**

Sandeep Nijhawan

**Hon. Secretary**

Rajesh Puri

**Jt. Secretary**

Mohan Ramchandani

**Treasurer**

Zubin Dev Sharma

**Members**

**(2020-2022)**

Praveer Rai

Sunil Kumar Dadhich

Sunil Jain

**(2021-2023)**

Manoj Kumar Sahu

Usha Dutta

B. Avinash

**Co-opted (2021-2022)**

Prakash Zacharias

**Past President**

Mathew Philip

Vipulroy Rathod

G.N. Ramesh

**Ex-Officio**

Govind Makharia (ISG)

Kaushal Madan (INASL)

**National Advisor Board**

**(2018-2023)**

D.N. Reddy

Randhir Sud

Mahesh Goenka

Showkat Zargar

Vipulroy Rathod

© 2022. Society of Gastrointestinal Endoscopy of India. All rights, including the rights of publication, distribution, and sales, as well as the right to translation, are reserved. No part of this work covered by the copyrights hereon may be reproduced or copied in any form or by any means – graphic, electronic, or mechanical, including photocopying, recording, taping, or information and retrieval systems – without written permission of the publisher.

*Journal of Digestive Endoscopy* is published 4 times a year in March, June, September, and December by Thieme Medical and Scientific Publishers Pvt. Ltd., A-12, 2nd Floor, Sector 2, Noida-201301 UP, India. Tel: +91-120-4556600, Fax: +91-120-455-6649.

**Subscription:** Open access journals available online for free at <http://open.thieme.com>.

**Advertisers contact:** Marketing, Thieme Medical and Scientific Publishers Pvt. Ltd., A-12, 2nd Floor, Sector 2, Noida-201301 UP, India, [marketing@thieme.in](mailto:marketing@thieme.in).

*Journal of Digestive Endoscopy* is indexed in DOAJ, ESCI, Embase, EBSCO, and ProQuest. Thieme Medical Publishers is a member of the CrossRef initiative.

Editorial comments should be sent to [journals@thieme.com](mailto:journals@thieme.com). The content of this journal is available online at [www.thieme-connect.com/products](http://www.thieme-connect.com/products). Visit our Web site at [www.thieme.com](http://www.thieme.com) and the direct link to this journal at [www.thieme.com/jde](http://www.thieme.com/jde).

**Typesetting:** Thomson Digital, Noida, India

**Printing and Binding:** Sai Printo Pack (P) Ltd.

**Printed in India**