

Atlas of GI. Endoscopy :

The Series of Interest

Atlas of GI. Endoscopy : The Series of Interest

Edited by

Sombat Treeprasertsuk, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine
Chulalongkorn University, Bangkok, Thailand. **and**

Rungsun Rerknimitr, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine
Chulalongkorn University, Bangkok, Thailand.

First edition

Thai Association for Gastrointestinal Endoscopy (TAGE)

First published 2008

ISBN : 978-974-04-5195-2

All rights reserved. No part of this publication may be reproduced or transmitted, modified in any forms or by any means; electronics, mechanical, photocopying, recording, except getting prior written permission from the Thai Association for Gastrointestinal Endoscopy (TAGE) committee.

Graphic Design @ Sangsue Co. Ltd, 17/118 Soi pradiphat 1, Pradiphat Road,
Samsen Nai, Phayathai, Bangkok, Thailand Tel. 0-2271-4339, 0-2279-9636

450 Baht

Preface

One of the main objectives of TAGE is to provide knowledge in GI Endoscopy. Apart from standard lectures and workshops, this book is one of our tools. Our books have been published and distributed in our society annual meeting for many years.

This year, we have just started the first edition of Atlas for GI Endoscopy. We think this book can help the doctors who do GI Endoscopy to get familiar in terminology, finding, classification, and some therapeutic options. Hopefully, our practices will be standardized in the near future as others, then the data from our country can be stored and analyzed in similar format for future planning in this field.

On behalf of the TAGE, I would like to express my deeply thank to Assistant Professor Sombat Treeprasertsuk and Associate Professor Rungsun Rerknimitr who contributed a lot of time and effort to produce this difficult work. Again hopefully, this book will be one your good friend that can stand beside you and support your GI practice.



Sukij Panpimanmas, MD.
President,
Thai Association for Gastrointestinal Endoscopy (TAGE)



สมาคมแพทย์ส่องกล้องทางเดินอาหารไทย Thai Association for Gastrointestinal Endoscopy

An Order of Thai Association for Gastrointestinal Endoscopy

(No. 1/2008)

Subject : Appointment of Thai Association for Gastrointestinal Endoscopy Committee

I, Dr.Sukij Panpimanmas, President of Thai Association for Gastrointestinal Endoscopy would like to appoint the Association for Gastrointestinal Endoscopy Committee of 2008-2009 as follows:

- | | |
|---------------------------------|------------------------------------|
| 1. Dr.Sommai Wilairatana | Advisor |
| 2. Dr.Pinit Kullavanijaya | Advisor |
| 3. Dr.Suraphol Churnratanakul | Advisor |
| 4. Dr.Sukij Panpimanmas | President |
| 5. Dr.Bancha Ovartharnporn | President Elect |
| 6. Dr.Varocha Mahachai | Vice President |
| 7. Dr.Thawee Ratanachu-ek | Secretary General & committee |
| 8. Dr.Thawatchai Akaraviputh | Vice Secretary General & committee |
| 9. Dr.Yudhtana Sattawatthamrong | Public relation & committee |
| 10. Dr.Rungsun Rerknimitr | Treasurer & committee |
| 11. Dr.Apichat Sangchan | Education & committee |
| 12. Dr.Asada Methasate | Social Program & committee |
| 13. Dr.Jirasak Wannaprasert | Media advertising & committee |
| 14. Dr.Taveesin Tanprayoon | Committee |
| 15. Dr.Pisal Pongchairerks | Committee |
| 16. Dr.Sombat Treeprasertsuk | Committee |
| 17. Dr.Jirawat Pattana-Arun | Committee |
| 18. Dr.Patpong Navicharern | Committee |
| 19. Dr.Ong-ard Praisontarangkul | Committee |
| 20. Dr.Satawat Thongsawat | Committee |
| 21. Dr.Siriboon Attasaranya | Committee |
| 22. Dr.Nopporn Anukulkarnkulsol | Committee |
| 23. Dr.Sopark Manasnayakorn | Committee |
| 24. Dr.Thanom Jewsuedpong | Committee |
| 25. Dr.Bubpha Pornthisarn | Committee |
| 26. Dr.Pradermchai Kongkam | Committee |

Effective on January 1, 2008 onwards

Dr.Sukij Panpimanmas
President

Thai Association for Gastrointestinal Endoscopy

Contributors

Bancha Ovartharnporn, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Prince Songklanakarin, Prince of Songklanakarin University, Songkla, Thailand.

Boonlert Imraporn, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine Chulalongkorn University, Bangkok, Thailand.

Chatporn Kittitrakul, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine Chulalongkorn University, Bangkok, Thailand.

Danai Limmathurotsakul, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine Chulalongkorn University, Bangkok, Thailand.

Nathavut Sirimontaporn, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine Chulalongkorn University, Bangkok, Thailand.

Nathaya Tangmankongworakoon, MD.

Mahachai Hospital, Samut-Sakhon, Thailand.

Nopavut Geratikornsupuk, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine Chulalongkorn University, Bangkok, Thailand.

Phonthep Angsuwatcharakon, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine Chulalongkorn University, Bangkok, Thailand.

Roongruedee Chaiteerakij, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine
Chulalongkorn University, Bangkok, Thailand.

Rungsun Rerknimitr, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine
Chulalongkorn University, Bangkok, Thailand.

Saeksit Osatakul, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine
Prince of Songklanakarin, Prince of Songklanakarin University, Songkla, Thailand.

Sombat Treeprasertsuk, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine
Chulalongkorn University, Bangkok, Thailand.

Sukprasert Jutaghokiat, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine
Chulalongkorn University, Bangkok, Thailand.

Supaporn Opasanon, MD.

Division of Trauma Surgery, Department of Surgery, Faculty of Medicine
Siriraj Hospital, Mahidol University, Bangkok, Thailand.

Suthep Gonlachanvit, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine
Chulalongkorn University, Bangkok, Thailand.

Thawatchai Akaraviputh, MD.

Division of General Surgery, Department of Surgery, Faculty of Medicine
Siriraj Hospital, Mahidol University, Bangkok, Thailand.

Varocha Mahachai, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine
Chulalongkorn University, Bangkok, Thailand.

Wiriyaporn Ridditid, MD.

Division of Gastroenterology, Department of Medicine, Faculty of Medicine
Chulalongkorn University, Bangkok, Thailand.

Pathological contributor

Naruemon Klaikaew, MD.

Department of Pathology, Faculty of Medicine
Chulalongkorn University, Bangkok, Thailand.

Contents

Preface

Lists of TAGE committee

Lists of contributors

Part 1 - Esophagus 1

Part 2 - Stomach 25

Part 3 - Small and Large Intestine 69

Part 4 - Hepatobiliary and Pancreas 117

website 186

Index 187