

High-Dose Dual Therapy Versus Bismuth-Containing Quadruple Therapy for the Treatment of Helicobacter pylori Infection: A Systematic Review with Meta-Analysis

See page 454

485 TP53 Codon 72 Polymorphism and the Risk of Colorectal Cancer in an Azerbaijani Population
532 Modeling the Trend Changes of Liver Cancer Mortality in the 6 WHO Regions





Editor in Chief

Murat Törüner 🗅

Department of Gastroenterology, Ankara University School of Medicine, Ankara, Turkey

Senior Associate Editors

Hale Akpınar 🗓

Department of Gastroenterology, Dokuz Eylül University School of Medicine, İzmir, Turkey

Ramazan İdilman 🕩

Department of Gastroenterology, Ankara University School of Medicine, Ankara, Turkey

Orhan Sezgin

Department of Gastroenterology, Mersin University Medical Faculty, Mersin, Turkey

Associate Editors

Hüseyin Savaş Göktürk

Department of Gastroenterology, Başkent University Faculty of Medicine, Konya, Turkey

A. Emre Yıldırım

Department of Gastroenterology, Memorial Bahçelievler Hospital, İstanbul, Turkey

Dinc Dincer

Department of Gastroenterology, Akdeniz University School of Medicine, Antalya, Turkey

Ödül Eğritaş Gürkan 🕩

Department of Pediatric Gastroenterology, Ankara University School of Medicine, Ankara, Turkey

Hale Gökcan 📵

Clinic of Gastroenterology, Ankara City Hospital, Ankara, Turkey

İbrahim Hatemi 🗅

Department of Gastroenterology, İstanbul University-Cerrahpaşa, Cerrahpaşa School of Medicine, İstanbul, Turkey

Gökhan Kabaçam 📵

Department of Gastroenterology, Ankara Güven Hospital, Ankara, Turkey

Volkan Öter 🗅

Clinic of Gastrointestinal Surgery, Ankara City Hospital, Ankara, Turkey

Yeşim Öztürk 📵

Department of Pediatric Gastroenterology, Dokuz Eylül University School of Medicine, İzmir, Turkey

Fatih Tekin 🗅

Department of Gastroenterology, Ege University School of Medicine, İzmir, Turkey

İlker Turan 🗅

Department of Gastroenterology, Ege University School of Medicine, İzmir, Turkey

Enver Üçbilek 🗅

Department of Gastroenterology, Mersin University School of Medicine, Mersin, Turkey

Gülşah Gündoğdu 🕩

Department of Physiology, Pamukkale University School of Medicine, Denizli, Turkey

Nuray Yazıhan

Department of Physiology, Ankara University School of Medicine, Ankara, Turkey

International Associate Editor

AhmetGürakar 匝

Department of Gastroenterology and Hepatology, Johns Hopkins University School of Medicine, Baltimore, USA

Statistical Editor

Gülşah Şeydaoğlu®

Department of Biostatistics, Çukurova University School of Medicine, Adana, Turkey **Junior Associate Editor**

Haluk Tarık Kani

Department of Gastroenterology, Marmara University School of Medicine, İstanbul, Turkey

Founder

İbrahim Kara

General Manager

Ali Şahin

Publishing Directors

İrem Soysal Gökhan Çimen

Editor

Gizem Kayan Tekaüt

Publications Coordinators

Arzu Arı Deniz Kaya Bahar Albayrak Gamze Bilgen Irmak Berberoğlu Alara Ergin Hira Gizem Fidan Defne Doğan

Vuslat Taş

Web Coordinators

Sinem Fehime Koz Doğan Oruç

Finance Coordinators

Elif Yıldız Çelik Osman Yalçın

Address: Büyükdere Cad. No: 105/9 34394 Mecidiyeköy, Şişli, İstanbul-Turkey Phone: +90 212 217 17 00 E-mail: info@avesyayincilik.com



Aims and Scope

Turkish Journal of Gastroenterology (*Turk J Gastroenterol*) is the double-blind peer-reviewed, open access, international publication organ of the Turkish Society of Gastroenterology. The journal is published monthly and its publication language is English.

Turkish Journal of Gastroenterology aims to publish international at the highest clinical and scientific level on original issues of gastroenterology and hepatology. The journal publishes original papers, review articles, and letters to the editor on clinical and experimental gastroenterology and hepatology.

The editorial and publication processes of the journal are shaped in accordance with the guidelines of the International Committee of Medical Journal Editors (ICMJE), World Association of Medical Editors (WAME), Council of Science Editors (CSE), Committee on Publication Ethics (COPE), European Association of Science Editors (EASE), and National Information Standards Organization (NISO). The journal is in conformity with the Principles of Transparency and Best Practice in Scholarly Publishing (doaj.org/bestpractice).

The Turkish Journal of Gastroenterology is indexed in Science Citation Index Expanded, PubMed/MEDLINE, Scopus, and TUBITAK ULAKBIM TR Index.

Processing and publication are free of charge with the journal. No fees are requested from the authors at any point throughout the evaluation and publication process. All manuscripts must be submitted via the online submission system, which is available at turkjgastroenterol.org. The journal guidelines, technical information, and the required forms are available on the journal's web page.

All expenses of the journal are covered by the Turkish Society of Gastroenterology. Potential advertisers should contact the Editorial Office. Advertisement images are published only upon the Editor-in-Chief's approval.

Statements or opinions expressed in the manuscripts published in the journal reflect the views of the author(s) and not the opinions of the Turkish Society of Gastroenterology, editors, editorial board, and/or publisher; the editors, editorial board, and publisher disclaim any responsibility or liability for such materials.

All published content is available online, free of charge at turkjgastroenterol.org.

Turkish Society of Gastroenterology holds the international copyright of all the content published in the journal.

You can find the current version of the Instructions to Authors at: https://www.turkjgastroenterol.org/en/instructions-to-authors-1016.

Editor in Chief: Prof. Murat Törüner

Address: Mustafa Kemal Mahallesi, 2126 Sokak, Kolbay İş

Merkezi, C blok, No.: 6-9, Çankaya, Ankara, TURKEY

Phone: +90 312 284 15 11 Fax: +90 312 284 80 75 E-mail: dernek@tgd.org.tr

Publisher: AVES

Address: Büyükdere Cad., 105/9 34394 Mecidiyeköy, Şişli,

İstanbul, TURKEY

Phone: +90 212 217 17 00 Fax: +90 212 217 22 92 E-mail: info@avesyayincilik.com

Web page: avesyayincilik.com







Table of Contents

Review

Gastrointestinal Tract

454 High-Dose Dual Therapy Versus Bismuth-Containing Quadruple Therapy for the Treatment of Helicobacter pylori Infection: A Systematic Review with Meta-Analysis

Zhikun Yin, Ji Li, Weifeng Huang, Xiaoyi Lei, Dong Xu, Guihua Xu, Hua Li, Jinyan Zhang

Original Articles

Gastrointestinal Tract

463 Cyclosporine Therapy as a Rescue Treatment in Steroid Refractory Acute Severe Ulcerative Colitis: A Real Life Data From a Tertiary Center

Sami Evirgen, Raim İliaz, Filiz Akyüz, Bilger Çavuş, Suut Göktürk, Aslı Örmeci, Özlem Mutluay Soyer, Bülent Baran, Binnur Pınarbaşı, Çetin Karaca, Kadir Demir, Fatih Beşışık, Sabahattin Kaymakoğlu

470 Effects of Lactobacillus casei on Iron Metabolism and Intestinal Microflora in Rats Exposed to Alcohol and Iron

Xuelong Li, Hui Liang

477 Exploration of Tuina Effect and Mechanism in Chronic Atrophic Gastritis Rats

Yujiang Qu, Xinwen Ma, Zhijin Xuan

485 TP53 Codon 72 Polymorphism and the Risk of Colorectal Cancer in an Azerbaijani Population Vugar Yagublu, Bayram Bayramov, Melek Yuce, Hazi Aslanov

491 Understanding the Interaction Between Prostaglandins and Toll-Like Receptors in Nicotine-Induced Rectal Tumor in Animals

Wang Peng, Li Changlu, Seshadri Sriram, Jiangang Liu

497 Will Proton Pump Inhibitors Increase the Risk of Diabetes Mellitus? A Systemic Review and Meta-Analysis

Yue Chen, Lei Hu, Chenyu Sun, Jiantong Bao, Jie Liu, Chandur Bhan, Keun Young Kim, Raveena Manem, Pratikshya Thapa, Shaodi Ma, Mengqing Liu, Xingyu Cheng, Ce Cheng, Qin Zhou

Liver

505 Therapeutic Effect of Crocin on the NASH Model by Targeting the Fas Receptor Signaling Pathway Seyyed Ali Mard, Feryal Savari, Anahita Rezaie, Maryam Khosravi

Gastrointestinal Endoscopy

515 Evaluation of Children Undergoing Endoscopic Procedures During the Normalization of the Coronavirus Disease 2019 Pandemic

Şenay Onbaşı Karabağ, Maşallah Baran, Betül Aksoy, Yeliz Cağan Appak, Sinem Kahveci Celik, Selen Güler, Dilek Yılmaz Ciftdoğan

520 Prolonged Intestinal Transit Time and Its Relation with Capsule Endoscopy Diagnostic Yield
Juan Lasa, Gustavo Cernadas, Pablo A. Olivera, Rafael Moore

Basic & Translational

525 Interaction of CCND2, CDKN1A, and POLD3 Variants in Mexican Patients with Colorectal Cancer

Carlos Rogelio Alvizo-Rodríguez, Beatriz Armida Flores-López, María de la Luz Ayala-Madrigal, Miriam Partida-Pérez, Nelly Margarita Macías-Gómez, Jorge Peregrina-Sandoval, Alexis Sayuri Suárez-Villanueva, José Miguel Moreno-Ortiz, Sergio Cervantes-Ortiz, Víctor Manuel Maciel-Gutiérrez, Melva Gutiérrez-Angulo

532 Modeling the Trend Changes of Liver Cancer Mortality in the 6 WHO Regions

Seyedeh Fatemeh Musavi Ezmareh, Kamran Mehrabani, Hadi Raeisi Shahraki

Letter to the Editor

539 It Is Time for a Routine Measurement of Aortic Stiffness in Inflammatory Bowel Disease
Luca Zanoli, Paolo Lentini, Agostino Gaudio, Pietro Castellino