



TURKISH JOURNAL OF

Gastroenterology

OFFICIAL JOURNAL OF THE TURKISH SOCIETY OF GASTROENTEROLOGY

Dyssynergic Defecation: A Comprehensive Review on Diagnosis and Management

See page 182

227 *Prolonged Gastric Transit Time in Small-Bowel Capsule Endoscopy: Which Patients Are at Risk and What Are the Implications?*

262 *Hepatocellular Carcinoma in Cirrhotic Versus Noncirrhotic Livers: Clinicomorphologic Findings and Prognostic Factors*



TURKISH JOURNAL OF
Gastroenterology
OFFICIAL JOURNAL OF THE TURKISH SOCIETY OF GASTROENTEROLOGY

Editor in Chief

Aydın Şeref Köksal ^{ID}

Department of Gastroenterology, Ankara Etlik City Hospital, Ankara, Turkey

Section Editors

Orhan Sezgin ^{ID}

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

Sedef Özdal Kuran ^{ID}

Department of Gastroenterology, Çukurova University Faculty of Medicine, Adana, Turkey

Murat Akyıldız ^{ID}

Department of Gastroenterology, Koç University Faculty of Medicine, İstanbul, Turkey

Gökhan Kabaçam ^{ID}

Department of Gastroenterology, Ankara Güven Hospital, Ankara, Turkey
Department of Internal Medicine, Yüksek İhtisas University Faculty of Medicine, Ankara, Turkey

Ülkü Dağlı ^{ID}

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

İsmail Hakkı Kalkan ^{ID}

Department of Gastroenterology, TOBB University of Economics and Technology Faculty of Medicine, Ankara, Turkey

Engin Altıntaş ^{ID}

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

Fatih Tekin ^{ID}

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

Associate Editors

Dinç Dinçer ^{ID}

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

Yasemin Balaban ^{ID}

Department of Gastroenterology, Hacettepe University Faculty of Medicine, Ankara, Turkey

Hale Gökcan ^{ID}

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

İlker Turan ^{ID}

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

Cumali Efe

Department of Gastroenterology, Gazi Yaşargil Education and Research Hospital, Diyarbakır, Turkey

Hüseyin Savaş Göktürk ^{ID}

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

Göksel Bengi ^{ID}

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

Abdullah Emre Yıldırım ^{ID}

Department of Gastroenterology, Memorial Bahçelievler Hospital, İstanbul, Turkey

Tarkan Karakan ^{ID}

Department of Gastroenterology, Gazi University Faculty of Medicine, Beşevler, Ankara, Turkey

Haluk Tarık Kani ^{ID}

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

Salih Tokmak ^{ID}

Department of Gastroenterology, Düzce University Faculty of Medicine, Düzce, Turkey

Öykü Tayfur Yürekli ^{ID}

Department of Gastroenterology, Ankara Yıldırım Beyazıt University Faculty of Medicine, Ankara, Turkey

Aslı Çiftçibaş Örmeci ^{ID}

Department of Gastroenterology, İstanbul University İstanbul Faculty of Medicine, İstanbul, Turkey

Suna Yapalı

Department of Gastroenterology, Acıbadem University, Altunizade Acıbadem Hospital, İstanbul, Turkey

Hüseyin Alkım ^{ID}

Department of Gastroenterology, Şişli Etfal Education and Research Hospital, İstanbul, Turkey

Erkin Öztaş ^{ID}

Department of Gastroenterology, Acıbadem Maslak Hospital, İstanbul, Turkey

Mehmet Asıl ^{ID}

Department of Gastroenterology, Necmettin Erbakan University Meram Faculty of Medicine, Konya, Turkey

Özlem Gül

Department of Gastroenterology, Kırıkkale University Faculty of Medicine, Kırıkkale, Turkey

Cem Şimşek ^{ID}

Department of Gastroenterology, Health Sciences University, Mehmet Akif İnan Education and Research Hospital, İstanbul, Turkey

Serkan Öcal ^{ID}

Department of Gastroenterology, Antalya Training and Research Hospital, University of Health Sciences, Antalya, Turkey

Volkan Öter ^{ID}

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



TURKISH JOURNAL OF
Gastroenterology
OFFICIAL JOURNAL OF THE TURKISH SOCIETY OF GASTROENTEROLOGY

Ödül Eğritaş Gürkan ^{ID}

Department of Pediatric Gastroenterology,
Gazi University Faculty of Medicine, Ankara,
Turkey

Çiğdem Ömür Ecevit ^{ID}

Department of Pediatric Gastroenterology,
Health Sciences University, Dr. Behçet Uz
Children Hospital, İzmir, Turkey

Nejat Akar ^{ID}

Department of Pediatrics and Molecular
Genetics, TOBB University of Economics &
Technology Faculty of Medicine, Ankara,
Turkey

Gülşah Gündoğdu ^{ID}

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

Fatih Eren ^{ID}

Department of Medical Biology, Marmara
University, İstanbul, Turkey

Başak Çeltikçi ^{ID}

Department of Medical Biochemistry,
Hacettepe University Faculty of Medicine,
Ankara, Turkey

Statistical Editor

Gülşah Şeydaoğlu

Department of Biostatistics, Çukurova
University Faculty of Medicine, Adana,
Turkey

International Associate Editor

Ahmet Gürakar ^{ID}

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



Founder

İbrahim Kara

General Manager

Ali Şahin

Finance Coordinator

Elif Yıldız Çelik

Journal Managers

İrem Soysal

Bahar Albayrak

Deniz Kaya

Irmak Berberoğlu

Publications Coordinators

Gökhan Çimen

Arzu Arı

Alara Ergin

Hira Gizem Fidan

İrem Özmen

Project Coordinators

Doğan Oruç

Sinem Fehime Koz

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

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

The 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, EMBASE, Scopus, DOAJ, China National Knowledge Infrastructure (CNKI), TUBITAK ULAKBIM TR Index, EBSCO and Gale.

All manuscripts must be submitted via the online submission system, which is available at www.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.

Open Access Statement

The Turkish Journal of Gastroenterology is an open access publication, and the journal's publication model is based on Budapest Open Access Initiative (BOAI) declaration. All published content is available online, free of charge at www.turkjgastroenterol.org. Authors retain the copyright of their published work in The Turkish Journal of Gastroenterology. The journal's content is licensed under a Creative Commons Attribution (CC BY) 4.0 International License which permits third parties to share and adapt the content for any purpose by giving the appropriate credit to the original work.

From August 2022 onwards, content is licensed under a Creative Commons CC BY 4.0 license. The journal's back content was published under a traditional copyright license however the archive is available for free access.

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

Editor in Chief: Aydın Şeref Köksal
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

182 Dyssynergic Defecation: A Comprehensive Review on Diagnosis and Management

Anahita Sadeghi, Elham Akbarpour, Fatemeh Majidirad, Serhat Bor, Mojgan Forootan, Mohammad-Reza Hadian, Peyman Adibi

Original Articles

Gastrointestinal Tract

196 A Chemically Induced Experimental Colitis Model with a Simple Combination of Acetic Acid and Trinitrobenzene Sulphonic Acid

Havva Yasemin Cinpolat, Güler Buğdaycı, Neriman Şengül, Hesna Müzeyyen Astaracı

203 Are Gastrointestinal Symptoms Important in Patients with COVID-19?

Emine Büküm, Ayşe Oğuz Ayaracı, Kadir Güler

211 Raw Lacquer Extract from Toxicodendron vernicifluum in Combination with ONC201 Enhances the Inhibitory Effects on Colorectal Cancer Cell Activity

Zhezhu Jin, Yongjun Jin

221 Vonoprazan on the Eradication of Helicobacter pylori Infection

Jiaming Huang, Ye Lin

Gastrointestinal Endoscopy

227 Prolonged Gastric Transit Time in Small-Bowel Capsule Endoscopy: Which Patients Are at Risk and What Are the Implications?

Marta Freitas, Vitor Macedo Silva, Sofia Xavier, Pedro Boal Carvalho, Bruno Rosa, Maria João Moreira, José Cotter

234 Surveillance Colonoscopies of Synchronous Colorectal Cancer: What Should We Do?

Chunmei Guo, Jing Wu, Yadan Wang, Hui Su, Canghai Wang, Hong Liu

Liver

242 Determining Subclinical Cardiovascular and Cardiac Diseases in Patients with Non-Alcoholic Fatty Liver Disease

Beliz Bahar Karaoğlan, Cansin Tulunay, Çağlar Uzun, Elif Peker, Nil Özyüncü, Zeynep Elik, Diğdem Kuru, Sibel Turhan, Berna Savaş, Ayşe Erden, Ramazan Idilman

254 Effects of Arum dioscoridis Extract on Hepatic Toxicity Caused by Thioacetamide in Rats

Murat Fatih Sökmen, Murat İspiroğlu, Kadir Gişi, Abdulkadir Yasir Bahar, Ergül Belge Kurutaş, Bülent Kantarçeken

262 Hepatocellular Carcinoma in Cirrhotic Versus Noncirrhotic Livers: Clinicomorphologic Findings and Prognostic Factors

Ümit Karaoğullarından, Oğuz Üsküdar, Emre Odabaş, Numan Ak, Sedef Kuran

Pancreatobiliary

270 Increased Incidence of Pancreatic Steatosis Detected Using Computed Tomography at Initial Diagnosis of Coronavirus Disease 2019

Ayşegül Öz, Seray Akçalar

278 The Prognostic Significance of Circulating Tumor Cells in Patients with Pancreatobiliary Cancer

İlkay Tuğba Ünek, İlhan Öztöp, Yasemin Başbınar, Tarkan Ünek, Asım Leblebici, Caner Karaca, Ece Çakıroğlu, Tuğba Uysal, Anıl Aysal, Hülya Ellidokuz, Özgül Sağol, İbrahim Astaracıoğlu

Pediatric Gastroenterology

287 Internet Addiction in Constipated Adolescents

Sevim Çakar, Gülin Eren

293 The Screening of Celiac Serology in Pediatric Patients Diagnosed with Type 1 Diabetes Mellitus

Didem Gülcü Taşkın, Aysun Ata

Basic & Translational

298 CHRM3-Associated miRNAs May Play a Role in Bile Acid-Induced Proliferation of H508 Colon Cancer Cells

Çağdaş Aktan, Fatih Tekin, Nevin Oruç, Ömer Özütemiz

Letter to the Editor

308 Risk of Reactivation of Hepatitis B in Hepatitis B Surface Antigen-Negative and Hepatitis B Core Antigen Antibody Positive Patients Receiving Biologic Therapy

Zeynep Gök Sargın

Author's Reply

310 RE: Risk of HBV Reactivation in HBsAg Negative and Anti-HBc IgG Positive Patients Receiving Biologic Therapy

İlkay Ergenç, Haluk Tanık Kani, Murat Karabacak, Elif Cömert Özer, Şahin Mehdiev, Fuad Jafarov, Kerem Yiğit Abacar, Seda Kutluğ Ağaçıran, Gizem Sevik, Rahmi Aslan, Fatma Alibaz Öner, Nevsun İnanç, Mehmet Pamir Atagündüz, Dilek Seçkin, Yeşim Özen Alahdab, Tülin Ergun, Haner Direskeneli, Özlen Atuş