



TURKISH JOURNAL OF

Gastroenterology

OFFICIAL JOURNAL OF THE TURKISH SOCIETY OF GASTROENTEROLOGY

Salvage Therapy in Acute Severe Ulcerative Colitis: Current Practice and a Look to the Future

See page 576

635 *Fibulin-2 Facilitates Malignant Progression of
Hepatocellular Carcinoma*

652 *The Abdominal Ultrasonography Results of
Cappadocia Cohort Study of Turkey Reveals
High Prevalence of Fatty Liver*



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

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

Yiğit Uyanıkgil ^{ID}


Department of Histology and Embryology, Ege University Faculty of Medicine, İzmir, Turkey



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

Ödül Eğritaş Gürkan 

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

Çiğdem Ömür Ecevit 

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

Nejat Akar 

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

Gülşah Gündoğdu 

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

Fatih Eren 

Department of Medical Biology, Marmara
University, İstanbul, Turkey

Başak Çeltikçi 

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 

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

Deniz Kaya

Irmak Berberoğlu

Arzu Arı

Publication Coordinators

Gökhan Çimen

Alara Ergin

İrem Özmen

Derya Azer

Burcu Demirer

Beyza Himmetoğlu Dal

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

576 Salvage Therapy in Acute Severe Ulcerative Colitis: Current Practice and a Look to the Future
Natalie Tamir-Degabli, Nitsan Maharshak, Nathaniel A. Cohen

Liver

584 Efficacy and Safety of Rifaximin in the Prevention of Recurrent Episodes of Hepatic Encephalopathy: A Systematic Review and Meta-analysis
Ahmed Elmoursi, Ahmed Taha Abdelsattar, Farag Khalil, Hosam Shabana, Hendawy Abdel-Moety Zedan, Ismail Mohamed El Mancy, Ibrahim Ghounim Ramadan, Sadek Mostafa

Original Articles

Gastrointestinal Tract

593 Associations of Gastrointestinal Tract Tumor Necrosis Factor Receptor-Associated Factor 6 Expression with Clinical Features and Prognosis of Eosinophilic Gastroenteritis
Yaya Bai, Yuming Tang, Ying Zhu, Fei Yuan, Haimin Xu, Weiyao Yao

603 Mucosal Healing and Clinical Efficacy of Adalimumab in Small Intestinal Crohn's Disease (SIMCHA Study): Final Results From a Prospective, Open-Label, Single-Arm Study
Panu Wetwittayakhang, Christine Verdon, Michael Starr, Gustavo Drügg Hahn, Petra A. Golovics, Talat Bessissow, Waqqas Afif, Gary Wild, Alain Bitton, Peter L. Lakatos

611 Patients' Knowledge About the Endoscopic Ultrasound-Guided Fine Needle Aspiration of Pancreas Is Not Enough
Linxia Shen, Jianying Lu, Ying Gu, Wenjuan Shen, Junfang Qi

Liver

618 Associations Between Hepatic and Pancreatic Steatosis with Lumbar Spinal Bone Marrow Fat: A Single-Center Magnetic Resonance Imaging Study
Akin Abbasoğlu, Musturay Karçaaltınçaba, Ali Devrim Karaosmanoğlu, Mustafa Nasuh Özmen, Deniz Akata, İlkay S. İdilman

626 Dose-Dependent Effect of Hydrogen Sulfide in Cyclophosphamide-Induced Hepatotoxicity in Rats
Fikriye Yasemin Özatik, Orhan Özatik, Yasemin Tekşen, Havva Koçak, Neziha Senem Arı, Çiğdem Çengelli Ünel

635 Fibulin-2 Facilitates Malignant Progression of Hepatocellular Carcinoma
Xinyan Hu, Tianze Liu, Luting Li, Hairun Gan, Tiancheng Wang, Pengfei Pang, Junjie Mao

645 Radiofrequency Ablation for Colorectal Cancer Liver Metastases: Outcomes and Prognostic Factors Associated with Survival
Okan Akhan, Seray Akçalar, Emre Ünal, Yavuz Metin, Türkmen Çiftçi, Devrim Akıncı

652 The Abdominal Ultrasonography Results of Cappadocia Cohort Study of Turkey Reveals High Prevalence of Fatty Liver
Orhan Sezgin, Hale Akpınar, Birol Özer, Murat Törüner, Kadir Bal, Serhat Bor

Pancreatobiliary

665 Investigation of Serum Human Epididymitis Protein 4 Level in Rats with Experimental Acute Pancreatitis
Ali Acar, Hamit Yaşar Ellidağ, Kadir Balaban, Serkan Öcal, Arif Aslaner, Tuğrul Çakır

Letter to the Editor

672 Is There a More Practical Way for Screening Minimal Hepatic Encephalopathy?
Şerife Değirmencioğlu Tosun, Coşkun Özer Demirtaş

Author's Response

673 RE: Is There a More Practical Way for Screening Minimal Hepatic Encephalopathy?
Deniz Eyice, Ayşe Merve Ok, Abdullah Sonsuz, Mustafa Şükrü Şenocak, Meliha Nur Durak, Sebati Özdemir, Billur Canbakan, Murat Tuncer, Ibrahim Hatemi