

EISSN 1305-3612

DIR

Diagnostic and Interventional Radiology

TSR
1924
TURKISH SOCIETY
OF RADIOLOGY

dirjournal.org

VOLUME 26
ISSUE 6
NOVEMBER-DECEMBER 2020


Editor in Chief

Mustafa Seçil, MD 

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

Section Editors and Editorial Board

Abdominal Imaging


Mehmet Ruhi Onur, MD 

Department of Radiology, Hacettepe University School of Medicine Hospital, Ankara, Turkey

Bengi Gürses, MD 

Department of Radiology, Koç University School of Medicine, İstanbul, Turkey

Artificial Intelligence and Informatics

Bariş Türkbeğ, MD 


Molecular Imaging Program, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, USA

Breast Imaging

Mustafa Erkin Arıbal, MD 


Clinic of Radiology, Acıbadem Altunizade Hospital, İstanbul, Turkey

Cardiovascular Imaging

Uğur Bozlar, MD 

Department of Radiology, University of Health Sciences Gülhane Training and Research Hospital, Ankara, Turkey

Interventional Radiology


Cüneyt AYTEKİN, MD 


Department of Radiology, Başkent University School of Medicine Hospital, Ankara, Turkey

Barbaros ÇİL, MD 

Department of Radiology, Koç University School of Medicine, İstanbul, Turkey

Biostatistical Consultants

İlker Ercan, PhD 

Mutlu Hayran, MD, PhD 

Contact Information

Diagnostic and Interventional Radiology Turkish Society of Radiology
Hoşdere Cad., Güzelkent Sok., Çankaya Evleri, F/2, 06540 Ankara, Turkey
E-mail info@dirjournal.org
Phone +90-312-4423653 Fax +90-312-4423654

Ramazan Kutlu, MD 

Department of Radiology, İnönü University School of Medicine, Malatya, Turkey

Musculoskeletal Imaging


Hatice Tuba Sanal, MD

Department of Radiology, University of Health Sciences Gülhane Training and Research Hospital, Ankara, Turkey


Neuroradiology and Head & Neck Imaging

Kubilay Aydın, MD 

Department of Radiology, İstanbul University School of Medicine, İstanbul, Turkey


Nafi Aygün, MD 

Department of Radiology, Johns Hopkins University School of Medicine, Baltimore, MD, USA

Osman Kızılkılıç, MD 


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

Nuclear Medicine

A. Cahid Civelek, MD 

Department of Radiology and Nuclear Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, USA

Pediatric Imaging

Murat Kocaoğlu, MD 

Department of Radiology, Cincinnati Children's Hospital Medical Center, Ohio, USA

Korgün Koral, MD 

Department of Radiology, University of Texas Southwestern Medical Center, Dallas, TX, USA

Copyediting

Beril Tavşanlı Sili, PhD

Publication Services

AVES, İstanbul, TR

Diagnostic and Interventional Radiology (Diagn Interv Radiol) is a bimonthly periodical of the Turkish Society of Radiology and the content of the journal is available at <http://www.dirjournal.org/eng/Anasayfa> It is peer-reviewed and adheres to the highest ethical and editorial standards. The editors of the journal endorse the Editorial Policy Statements Approved by the Council of Science Editors Board of Directors (www.councilscienceeditors.org/services/draft_approved.cfm). The journal is in compliance with the Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly Work in Medical Journals published by the International Committee of Medical Journal Editors (updated December 2014, www.icmje.org).

First ten volumes of Diagnostic and Interventional Radiology have been published in Turkish under the name of Tanışal ve Girişimsel Radyoloji (Index Medicus® abbreviation: Tani Girişim Radyol), the current title's exact Turkish translation.

© All rights of the articles published in Diagnostic and Interventional Radiology and displayed online at www.dirjournal.org are reserved by the Turkish Society of Radiology.

Diagnostic and Interventional Radiology is indexed in SCI Expanded, PubMed/MEDLINE, TUBITAK ULAKBİM TR Index, DOAJ, HINARI, EMBASE, Scopus.

Turkish Society of Radiology is one of the foremost medical specialty organizations in Turkey. It was formed by the merger of the two main radiology societies of Turkey, one of which was founded in 1924. The Society is based in Ankara, Turkey.

Instructions to Authors

Overview

Diagnostic and Interventional Radiology (Diagn Interv Radiol) is a medium for disseminating scientific information based on research, clinical experience, and observations pertaining to diagnostic and interventional radiology. The journal is the double-blind peer-reviewed, international, bimonthly, open-access publication organ of the Turkish Society of Radiology. *Diagnostic and Interventional Radiology* is currently indexed by Science Citation Index Expanded (2016 IF: 1.892) and PubMed MEDLINE.

Editorial and publication processes of the journal are shaped in accordance with the guidelines of the international organizations such as the International Committee of Medical Journal Editors (ICMJE), the World Association of Medical Editors (WAME), the Council of Science Editors (CSE), the Committee on Publication Ethics (COPE), and the European Association of Science Editors (EASE).

Statements or opinions expressed in the manuscripts published in *Diagnostic and Interventional Radiology* reflect the views of the author(s) and not the opinions of the editors, the editorial board, or the publisher; the editors, the editorial board, and the publisher disclaim any responsibility or liability for such materials. The final responsibility in regard to the published content rests with the authors.

Submitting manuscripts

- Authors should submit manuscripts using the online peer review system that can be accessed through the DIR web site (www.dirjournal.org) or using the direct link at <https://mc04.manuscriptcentral.com/dir>.
- Detailed DIR Author Guidelines can be viewed or downloaded from DIR web site (www.dirjournal.org).
- *Diagnostic and Interventional Radiology* requires authors to submit an Authorship Contributions Form during the initial submission which is available for download through the journal's web page.
- Submitted manuscripts should be original contributions; they should not contain any previously

published data or be under consideration by another journal.

- Authors are required to make a full statement at the time of submission about all prior reports and submissions that might be considered duplicate or redundant publication and mention any previously published abstracts for meeting presentations that contain partial or similar material in the cover letter.
- Authors must obtain written permission from the copyright owner to reproduce previously published figures, tables, or any other material in both print and electronic formats and present it during submission.

Copyright transfer

Diagnostic and Interventional Radiology requires each submission to be accompanied by a Copyright Transfer Form which can be downloaded from <http://www.dirjournal.org>. By signing the copyright agreement, the authors hand over the copyright of their work to the Turkish Society of Radiology. In case of a rejection decision, copyright of the manuscript will be returned to the authors.

Conflict of interest disclosure

Diagnostic and Interventional Radiology requires and encourages the authors and the individuals involved in the evaluation process to disclose any existing or potential conflicts of interests including financial, consultant, institutional, and other relationships that might lead to bias or a conflict of interest. Each contributing author is required to electronically fill in the *ICMJE Form for Disclosure of Potential Conflicts of Interest* (available at www.icmje.org) and the forms must be submitted during the initial submission.

Initial evaluation and the peer review process

Manuscripts submitted to *Diagnostic and Interventional Radiology* will first go through a technical evaluation process where the editorial office staff will ensure that the manuscript is prepared and submitted in accordance with the journal's guidelines. Submissions that do not conform to the journal's guidelines will be returned to the submitting author with technical correction requests.

All submissions are screened by a similarity detection software (iThenticate by CrossRef), and those with an overall similarity index of greater than 20%, or duplication rate at or higher than 5% with a single source are returned to the authors without further evaluation along with the similarity report.

Manuscripts meeting the requirements mentioned in journal's guideline will go under the review process. The initial review will be performed by Editor-in-Chief and the Section Editor, which include the evaluation of the manuscript for its originality, importance of the findings, scientific merit, interest to readers and compliance with the policy of the journal in force. Manuscripts with insufficient priority for publication are not sent out for further review and rejected promptly at this level to allow the authors to submit their work elsewhere without delay.

Manuscripts that pass through the initial review are sent to peer review, which is performed in a blinded manner by least two external and independent reviewers. During the review process, all original articles are evaluated by at least one senior consultant of statistics for proper handling and consistency of data, and use of correct statistical method. The Section Editor and / or Editor-in-Chief are the final authority in the decision-making process for all submissions..

Permissions and reprints

Turkish Society of Radiology handles all requests to reproduce material from *Diagnostic and Interventional Radiology*. For your convenience, please fill in the permission request form, available for download at the journal's webpage and e-mail a scanned version to info@dirjournal.org.

Please ensure that you include the full reference of the material you want to use (i.e., year of publication, volume, issue and page numbers, author names, figure numbers where appropriate). Turkish Society of Radiology also requires a detailed overview of how you intend to use the material (i.e., in a book or a journal) and when.

ABDOMINAL IMAGING

- 515 **Original article.** Tubular gastric adenocarcinoma: machine learning-based CT texture analysis for predicting lymphovascular and perineural invasion. A. H. Yardımcı, B. Koçak, C. Turan Bektaş, İ. Sel, E. Yarıkkaya, N. Dursun, H. Bektaş, Ç. Usul Afşar, R. U. Gürsu, Ö. Kılıçkesmez
- 523 **Original article.** Visual PET/CT scoring of mesenteric FDG uptake to differentiate between tuberculous peritonitis and peritoneal carcinomatosis. S.-b. Wang, H. He, D.-d. Xv, B. She, R.-c. Lu, Z.-h. Yang, H. Shi, R. Xie
- 531 **Review.** Hepatocellular carcinoma with macrovascular invasion: multimodality imaging features for the diagnosis. R. Cannella, A. Taibbi, G. Porrello, M. D. Burgio, G. Cabibbo, T. V. Bartolotta
- 541 **Pictorial essay.** Congestive hepatopathy: the role of the radiologist in the diagnosis. A. Morales, M. Hirsch, D. Schneider, D. González
- 546 **Pictorial essay.** CT of the acute colonic diverticulitis: a pictorial essay. L. M. Minordi, L. Larosa, G. Berte, S. Pecere, R. Manfredi

BREAST IMAGING

- 552 **Original article.** Is biopsy necessary? Role of DCE-MRI in BIRADS-3 lesions. G. Türk, M. Özdemir, M. Çoban, A. Koç

CHEST IMAGING

- 557 **Original article.** Visual and software-based quantitative chest CT assessment of COVID-19: correlation with clinical findings. G. Durhan, S. Ardalı Düzgün, F. Başaran Demirkazık, İ. Irmak, İ. İdilman, M. G. Akpınar, E. Akpınar, S. Öcal, G. Telli, A. Topeli, O. M. Arıyürek

INTERVENTIONAL RADIOLOGY

- 565 **Original article.** Side-hole catheters have higher thrombus aspiration efficiency than regular end-hole catheters in an *in vitro* model. J. Moosavi, P. Sadeghipour, O. Shafe, A. Abdi

- 570 **Original article.** Safety of ultrasound-guided distal radial artery access for abdominopelvic transarterial interventions: a prospective study. A. Koury Jr., L. M. Monsignore, L. H. de Castro-Afonso, D. G. Abud

- 575 **Review.** TACE combined with microwave ablation therapy vs. TACE alone for treatment of early- and intermediate-stage hepatocellular carcinomas larger than 5 cm: a meta-analysis. C. Liu, T. Li, J.-t. He, H. Shao

- 584 **Technical note.** Treatment of mycotic superior mesenteric vein pseudoaneurysm via placement of covered endovascular stent. J. Eustache, Z. Rong, L. Bouchard, P. Perrault, E. Girard, R. Lapointe

MODALITY-BASED (US, CT, MRI, PET-CT) IMAGING

- 587 **Review.** Magnetic resonance lymphangiography: with or without contrast? S. Guerrini, F. Gentili, F. G. Mazzei, P. Gennaro, L. Volterrani, M. A. Mazzei

NEURORADIOLOGY

- 596 **Original article.** Nusinersen injections in adults and children with spinal muscular atrophy: a single-center experience. C. Özütemiz, P. Karachunski, D. R. Nascene

LETTER TO THE EDITOR

- 603 The effect of COVID-19 pandemic on breast imaging: a clinical observations. E. Yılmaz, N. Güldoğan, E. Arıbal
- 604 MinIP technique may be helpful in diagnosing COVID-19. R. Savaş
- 606 Safety and role of chest CT in COVID-19 patients. M. Scialpi, I. Piscio, G. B. Scalera, E. Piane
- 607 Radiological approach to COVID-19 pneumonia: attention should be paid to pulmonary embolism and radiation exposure. F. Ufuk
- 608 COVID-19 pneumonia in a Turkish child presenting with abdominal complaints and reversed halo sign on thorax CT. S. B. Görkem, B. Ş. Çetin