

# MIRT

## Molecular Imaging and Radionuclide Therapy

February 2021

Volume 30

Issue 1

www.tsnm.org



### ■ The Owner on Behalf of Turkish Society of Nuclear Medicine

**Prof. Gamze Çapa Kaya, MD.**  
Dokuz Eylül University, Medical School, Department of Nuclear Medicine, İzmir, Turkey

### ■ Publishing Manager

**Prof. Zehra Özcan, MD.**  
Ege University, Medical School, Department of Nuclear Medicine, İzmir, Turkey  
E-mail: zehra.ozcan@yahoo.com

### ■ Editor in Chief

**Prof. Zehra Özcan, MD.**  
Ege University, Medical School, Department of Nuclear Medicine, İzmir, Turkey  
E-mail: zehra.ozcan@yahoo.com  
ORCID ID: 0000-0002-6942-4704

### ■ Associate Editor

**Prof. Murat Fani Bozkurt, MD.** Hacettepe University, Medical School, Department of Nuclear Medicine, Ankara, Turkey  
E-mail: fanibozkurt@gmail.com  
ORCID ID: 0000-0003-2016-2624

**Prof. Tanju Yusuf Erdil, MD.** Marmara University Medical School, Department of Nuclear Medicine, İstanbul, Turkey  
E-mail: yerdil@marmara.edu.tr  
ORCID ID: 0000-0002-5811-4321

**Associate Prof. Nalan Selçuk, MD.** Yeditepe University, Medical School, Department of Nuclear Medicine, İstanbul, Turkey  
E-mail: nalanselcuk@yeditepe.edu.tr  
ORCID ID: 0000-0002-3738-6491

### ■ Statistics Editors

**Prof. Gül Ergör, MD.**  
Dokuz Eylül University, Medical School, Department of Public Health, İzmir, Turkey  
E-mail: gulergor@deu.edu.tr

**Prof. Sadettin Kılıçkap, MD.**  
Hacettepe University, Medical School, Department of Preventive Oncology, Ankara, Turkey  
E-mail: skilickap@yahoo.com

### ■ English Language Editor

**Murat Mert Atmaca, MD.**  
Şanlıurfa, Turkey

## Scientific Advisory Board

**Ayşegül Akgün,**  
Ege University, Medical School, Department of Nuclear Medicine, İzmir, Turkey

**Esma Akin,**  
The George Washington University, Medical School, Department of Diagnostic Radiology, Washington DC, USA

**Claudine Als,**  
Hopitaux Robert Schuman Zitha Klinik, Médecine Nucléaire, Luxembourg

**Vera Artiko,**  
Clinical Center of Serbia, Center for Nuclear Medicine, Belgrade, Serbia

**Nuri Arslan,**  
Helat Sciences University, Gülhane Medical School, Gülhane Training and Research Hospital, Clinic of Nuclear Medicine, Ankara, Turkey

**Marika Bajc,**  
Lund University Hospital, Clinic of Clinical Physiology, Lund, Sweden

**Lorenzo Biassoni,**  
Great Ormond Street Hospital for Children NHS Foundation Trust, Department of Radiology, London, United Kingdom

**Hans Jürgen Biersack,**  
University of Bonn, Department of Nuclear Medicine, Clinic of Radiology, Bonn, Germany

**M. Donald Blafox,**  
Albert Einstein College of Medicine, Department of Radiology, Division of Nuclear Medicine, New York, USA.

**Patrick Bourguet,**  
Centre Eugène Marquis, Department of Nuclear Medicine, Clinic of Radiology, Rennes, France

**A. Cahid Civelek,**  
NIH Clinical Center, Division of Nuclear Medicine, Bethesda, USA

**Arturo Chiti,**  
Humanitas University, Department of Biomedical Sciences; Humanitas Clinical and Research Center, Clinic of Nuclear Medicine, Milan, Italy

**Josep Martin Comin,**  
Hospital Universitari de Bellvitge, Department of Nuclear Medicine, Barcelona, Spain

**Alberto Cuocolo,**  
University of Naples Federico II, Department of Advanced Biomedical Sciences, Napoli, Italy

**Tevfik Fikret Çermik,**  
Health Sciences University, İstanbul Training and Research Hospital, Clinic of Nuclear Medicine, İstanbul, Turkey

**Angelika Bischof Delaloye,**  
University Hospital of Lausanne, Department of Radiology, Lausanne, Switzerland

**Mustafa Demir,**  
İstanbul University, Cerrahpaşa Medical School, Department of Nuclear Medicine, İstanbul, Turkey

**Hakan Demir,**  
Kocaeli University Medical School, Department of Nuclear Medicine, Kocaeli, Turkey

**Peter Josef Ell,**  
University College Hospital, Institute of Nuclear Medicine, London, United Kingdom

**Tanju Yusuf Erdil,**  
Marmara University,  
Pendik Training and Research Hospital, Clinic of Nuclear Medicine, İstanbul, Turkey

**Türkan Ertay,**  
Dokuz Eylül University, Medical School, Department of Nuclear Medicine, İzmir, Turkey

**Jure Fettich,**  
University Medical Centre Ljubljana, Department for Nuclear Medicine, Ljubljana, Slovenia

**Christiane Franzius,**  
Klinikum Bremen Mitte Center, Center for Modern Diagnostics, Bremen, Germany

**Lars Friberg,**  
University of Copenhagen Bispebjerg Hospital, Department of Nuclear Medicine, Copenhagen, Denmark

**Jørgen Frøkiær,**  
Aarhus University Hospital, Clinic of Nuclear Medicine and PET, Aarhus, Denmark

**Maria Lyrá Georgosopoulou,**

University of Athens, 1st Department of Radiology, Aretaieion Hospital, Radiation Physics Unit, Athens, Greece

**Gevorg Gevorgyan,**

The National Academy of Sciences of Armenia, H. Buniatian Institute of Biochemistry, Yerevan, Armenia

**Seza Güleç,**

Florida International University Herbert Wertheim College of Medicine, Departments of Surgery and Nuclear Medicine, Miami, USA

**Liselotte Højgaard,**

University of Copenhagen, Department of Clinical Physiology, Nuclear Medicine and PET, Rigshospitalet, Copenhagen, Denmark

**Ora Israel,**

Tel Aviv University Sackler Medical School, Assaf Harofeh Medical Center, Clinic of Otolaryngology-Head and Neck Surgery, Haifa, Israel

**Csaba Juhász,**

Wayne State University Medical School, Children's Hospital of Michigan, PET Center and Translational Imaging Laboratory, Detroit, USA

**Gamze Çapa Kaya,**

Dokuz Eylül University, Medical School, Department of Nuclear Medicine, İzmir, Turkey

**Metin Kır,**

Ankara University, Medical School, Department of Nuclear Medicine, Ankara, Turkey

**Irena Dimitrova Kostadinova,**

Alexandrovska University Hospital, Clinic of Nuclear Medicine, Sofia, Bulgaria

**Lale Kostakoğlu,**

The Mount Sinai Hospital, Clinic of Nuclear Medicine, New York, USA

**Rakesh Kumar,**

All India Institute of Medical Sciences, Department of Nuclear Medicine, New Delhi, India

**Georgios S. Limouris,**

Athens University, Medical School, Department of Nuclear Medicine, Athens, Greece

**Luigi Mansi,**

Second University of Naples, Medical School, Department of Nuclear Medicine, Naples, Italy

**Yusuf Menda,**

University of Iowa Health Care, Carver College of Medicine, Department of Radiology, Iowa City, USA

**Vladimir Obradović,**

University of Belgrade, Faculty of Organizational Sciences, Department of Human Development Theory, Business Administration, Organizational Studies, Belgrade, Serbia

**Yekta Özer,**

Hacettepe University, Faculty of Pharmacy, Department of Radiopharmaceutical, Ankara, Turkey

**Francesca Pons,**

Hospital Clinic, Clinic of Nuclear Medicine, Barcelona, Spain

**Monica Rossleigh,**

Sydney Children's Hospital, Clinic of Nuclear Medicine, Sydney, Australia

**Dragana Sobic Saranovic,**

University of Belgrade, Medical School, Departments of Radiology, Oncology and Cardiology, Belgrade, Serbia

**Mike Sathekge,**

University of Pretoria, Steve Biko Academic Hospital, Department of Nuclear Medicine, Pretoria, South Africa

**Kerim Sönmezöglü,**

İstanbul University, Cerrahpaşa Medical School, Department of Nuclear Medicine, İstanbul, Turkey

**Zsolt Szabo,**

The Johns Hopkins Hospital, Divisions of Radiology and Radiological Science, Baltimore, USA

**Istvan Szilvasi,**

Semmelweis University, Medical School, Department of Nuclear Medicine, Budapest, Hungary

**Berna Okudan Tekin,**

Ankara Numune Training and Research Hospital, Clinic of Nuclear Medicine, Ankara, Turkey

**Mathew L. Thakur,**

Thomas Jefferson University, Department of Radiology, Pennsylvania, USA

**Bülent Turgut,**

Cumhuriyet University, Medical School, Department of Nuclear Medicine, Sivas, Turkey

**Turgut Turoğlu,**

Marmara University, Medical School, Department of Nuclear Medicine, İstanbul, Turkey

**Gülin Uçmak,**

Health Sciences University, Ankara Oncology Training and Research Hospital, Clinic of Nuclear Medicine, Ankara, Turkey

**Doğangün Yüksel,**

Pamukkale University, Medical School, Department of Nuclear Medicine, Denizli, Turkey

**Turkish Society of Nuclear Medicine**

Cinnah Caddesi Pilot Sokak No: 10/12 Çankaya 06650 Ankara, Turkey Phone: +90 312 441 00 45 Fax: +90 312 441 12 95 Web: www.tsnm.org E-mail: dernekmerkezi@tsnm.org  
"Formerly Turkish Journal of Nuclear Medicine"

Reviewing the articles' conformity to the publishing standards of the Journal, typesetting, reviewing and editing the manuscripts and abstracts in English, creating links to source data, and publishing process are realized by Galenos.

**Galenos Publishing House  
Owner and Publisher**

Derya Mor  
Erkan Mor

**Publication Coordinator**

Burak Sever

**Web Coordinators**

Fuat Hocalar  
Turgay Akpınar

**Graphics Department**

Ayda Alaca  
Çiğdem Birinci  
Gülşah Özgül

**Finance Coordinator**

Seviç Çakmak

**Project Coordinators**

Aysel Balta  
Duygu Yıldırım  
Gamze Aksoy  
Gülşah Akın  
Hatice Sever  
Melike Eren  
Meltem Acar  
Özlem Çelik  
Pınar Akpınar  
Rabia Palazoğlu

**Research&Development**

Mert Can Köse  
Özlem Akgüney Küçüçük

**Digital Marketing Specialist**

Seher Altundemir

**Publisher Contact**

Address: Molla Gürani Mah. Kaçamak Sk. No: 21/1  
34093 İstanbul, Turkey  
Phone: +90 (212) 621 99 25 Fax: +90 (212) 621 99 27  
E-mail: info@galenos.com.tr/yayin@galenos.com.tr  
Web: www.galenos.com.tr  
Publisher Certificate Number: 14521

Online Publication Date: February 2021

ISSN: 2146-1414 E-ISSN: 2147-1959

International scientific journal published quarterly.



Molecular Imaging and Radionuclide Therapy (formerly Turkish Journal of Nuclear Medicine) is the official publication of Turkish Society of Nuclear Medicine.

#### Focus and Scope

Molecular Imaging and Radionuclide Therapy (Mol Imaging Radionucl Ther, MIRT) is a double-blind peer-review journal published in English language. It publishes original research articles, invited reviews, editorials, short communications, letters, consensus statements, guidelines and case reports with a literature review on the topic, in the field of molecular imaging, multimodality imaging, nuclear medicine, radionuclide therapy, radiopharmacy, medical physics, dosimetry and radiobiology. MIRT is published three times a year (February, June, October). Audience: Nuclear medicine physicians, medical physicists, radiopharmaceutical scientists, radiobiologists.

The editorial policies are based on the "Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Work in Medical Journals (ICMJE Recommendations)" by the International Committee of Medical Journal Editors (2016, archived at <http://www.icmje.org/>) rules.

Molecular Imaging and Radionuclide Therapy is indexed in Pubmed, Pubmed Central (PMC), Emerging Sources Citation Index (ESCI), TUBITAK-ULAKBIM, Scopus, Gale/Cengage Learning, EBSCO databases, ProQuest Health & Medical Complete, CINAHL, DOAJ, Index Copernicus, J-Gate, IdealOnline, ROOT INDEXING, Türkiye Atıf Dizini-Türkiye Citation Index, Turk Medline, EuroPub, Hinari, GOALI, ARDI, OARE and AGORA.

#### Open Access Policy

This journal provides immediate open access to its content on the principle that making research freely available to the public supports a greater global exchange of knowledge.

Open Access Policy is based on rules of Budapest Open Access Initiative (BOAI) (<http://www.budapestopenaccessinitiative.org/>). By "open access" to [peer-reviewed research literature], we mean its free availability on the public internet, permitting any users to read, download, copy, distribute, print, search, or link to the full texts of these articles, crawl them for indexing, pass them as data to software, or use them for any other lawful purpose, without financial, legal, or technical barriers other than those inseparable from gaining access to the internet itself. The only constraint on reproduction and distribution, and the only role for copyright in this domain, should be to give authors control over the integrity of their work and the right to be properly acknowledged and cited.

#### Subscription Information

Manuscripts can only be submitted electronically through the Journal Agent website (<http://www.journalagent.com/mirt/?plng=eng>) after creating an account. This system allows online submission and review.

All published volumes in full text can be reached free of charge through the website <http://mirt.tsnmjournals.org>

#### Copyright Statement

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

Republication and reproduction of images or tables in any published material should be done with proper citation of source providing authors names; article title; journal title; year (volume) and page of publication; copyright year of the article.

The author(s) hereby affirms that the manuscript submitted is original, that all statement asserted as facts are based on author(s) careful investigation and research for accuracy, that the manuscript does not, in whole or part, infringe any copyright, that it has not been published in total or in part and is not being submitted or considered for publication in total or in part elsewhere.

Completed Copyright Statement form should be submitted to the online article system.

By signing this form,

1. Each author acknowledge that he/she participated in the work in a substantive way and is prepared to take public responsibility for the work.
2. Each author further affirms that he or she has read and understands the "Ethical Guidelines for Publication of Research".
3. The author(s), in consideration of the acceptance of the manuscript for publication, does hereby assign and transfer to the Molecular Imaging and Radionuclide Therapy all of the rights and interest in and the copyright of the work in its current form and in any form subsequently revised for publication and/or electronic dissemination.

This work is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License.

#### Instructions for Authors

Instructions for authors are published in the journal and on the website <http://mirt.tsnmjournals.org>

#### Material Disclaimer

Scientific and legal responsibilities pertaining to the papers belong to the authors. Contents of the manuscripts and accuracy of references are also the author's responsibility. The Turkish Society of Nuclear Medicine, the Editor, the Editorial Board or the publisher do not accept any responsibility for opinions expressed in articles.

Financial expenses of the journal are covered by Turkish Society of Nuclear Medicine.

#### Correspondence Address

Editor in Chief Prof. Dr. Zehra Özcan, Ege University, Medical School, Department of Nuclear Medicine, İzmir, Turkey

E-mail: [zehra.ozcan@yahoo.com](mailto:zehra.ozcan@yahoo.com)

Web page: <http://mirt.tsnmjournals.org/>

#### Publisher Corresponding Address

Galenos Yayınevi Tic. Ltd. Şti.

Address: Molla Gürani Mah. Kaçamak Sk. No: 21/1 34093 Fındıkzade, İstanbul, Turkey

Phone: +90 212 621 99 25

Fax: +90 212 621 99 27

E-mail: [info@galenos.com.tr](mailto:info@galenos.com.tr)



### INSTRUCTIONS TO AUTHORS

Molecular Imaging and Radionuclide Therapy (Mol Imaging Radionucl Ther, MIRT) publishes original research articles, short communications, invited reviews, editorials, case reports with a literature review on the topic, interesting images, consensus statements, guidelines, letters in the field of molecular imaging, multimodality imaging, nuclear medicine, radionuclide therapy, radiopharmacy, medical physics, dosimetry and radiobiology. MIRT is published by the Turkish Society of Nuclear Medicine three times a year (February, June, October).

Molecular Imaging and Radionuclide Therapy does not charge any article submission or processing fees.

#### GENERAL INFORMATION

MIRT commits to rigorous peer review, and stipulates freedom from commercial influence, and promotion of the highest ethical and scientific standards in published articles. Neither the Editor(s) nor the publisher guarantees, warrants or endorses any product or service advertised in this publication. All articles are subject to review by the editors and peer reviewers. If the article is accepted for publication, it may be subjected to editorial revisions to aid clarity and understanding without changing the data presented.

Manuscripts must be written in English and must meet the requirements of the journal. The journal is in compliance with the uniform requirements for manuscripts submitted to biomedical journals published by the International Committee of Medical Journal Editors (NEJM 1997; 336:309-315, updated 2016). Manuscripts that do not meet these requirements will be returned to the author for necessary revision before the review. Authors of manuscripts requiring modifications have a maximum of two months to resubmit the revised text. Manuscripts returned after this deadline will be treated as new submissions.

It is the authors' responsibility to prepare a manuscript that meets ethical criteria. The Journal adheres to the principles set forth in the Helsinki Declaration October 2013 (<https://www.wma.net/policies-post/wma-declaration-of-helsinki-ethical-principles-for-medical-research-involving-human-subjects/>) and holds that all reported research involving "Human beings" conducted in accordance with such principles.

Reports describing data obtained from research conducted in human participants must contain a statement in the MATERIALS AND METHODS section indicating approval by the ethical review board (including the approval number) and affirmation that INFORMED CONSENT was obtained from each participant.

All manuscripts reporting experiments using animals must include a statement in the MATERIALS AND METHODS section giving assurance that all animals have received humane care in compliance with the Guide for the Care and Use of Laboratory Animals ([www.nap.edu](http://www.nap.edu)) and indicating approval by the ethical review board.

If the study should have ethical approval, authors asked to provide ethical approval in order to proceed the review process. If they provide approval, review of the manuscript will continue.

In case report(s) and interesting image(s) a statement regarding the informed consent of the patients should be included in the manuscript and the identity of the patient(s) should be hidden.

Subjects must be identified only by number or letter, not by initials or names. Photographs of patients' faces should be included only if scientifically relevant. Authors must obtain written consent from the patient for use of such photographs. In cases of image media usage that potentially expose patients' identity requires

obtaining permission for publication from the patients or their parents/guardians. If the proposed publication concerns any commercial product, the author must include in the cover letter a statement indicating that the author(s) has (have) no financial or other interest with the product or explaining the nature of any relations (including consultancies) between the author(s) and editor the manufacturer or distributor of the product.

All submissions will be screened by Crossref Similarity Check powered by "iThenticate". Manuscripts with an overall similarity index of greater than 25%, or duplication rate at or higher than 5% with a single source will be returned back to authors.

#### MANUSCRIPT CATEGORIES

1. Original Articles
2. Short Communications are short descriptions of focused studies with important, but very straightforward results.
3. Reviews address important topics in the field. Authors considering the submission of uninvited reviews should contact the editor in advance to determine if the topic that they propose is of current potential interest to the Journal. Reviews will be considered for publication only if they are written by authors who have at least three published manuscripts in the international peer reviewed journals and these studies should be cited in the review. Otherwise only invited reviews will be considered for peer review from qualified experts in the area.
4. Editorials are usually written by invitation of the editor by the editors on current topics or by the reviewers involved in the evaluation of a submitted manuscript and published concurrently with that manuscript.
5. Case Report and Literature Reviews are descriptions of a case or small number of cases revealing a previously undocumented disease process, a unique unreported manifestation or treatment of a known disease process, unique unreported complications of treatment regimens or novel and important insights into a condition's pathogenesis, presentation, and/or management. The journal's policy is to accept case reports only if it is accompanied by a review of the literature on the related topic. They should include an adequate number of images and figures.
6. Interesting Image  
One of the regular parts of Molecular Imaging and Radionuclide Therapy is a section devoted to interesting images. Interesting image(s) should describe case(s) which are unique and include interesting findings adding insights into the interpretation of patient images, a condition's pathogenesis, presentation, and/or management.
7. Consensus Statements or Guidelines may be submitted by professional societies. All such submissions will be subjected to peer review, must be modifiable in response to criticisms, and will be published only if they meet the Journal's usual editorial standards.
8. Letters to the Editor may be submitted in response to work that has been published in the Journal. Letters should be short commentaries related to specific points of agreement or disagreement with the published work.

#### Note on Prior Publication

Articles are accepted for publication on the condition that they are original, are not under consideration by another journal, or have not been previously published. Direct quotations, tables, or illustrations that have appeared in



### INSTRUCTIONS TO AUTHORS

copyrighted material must be accompanied by written permission for their use from the copyright owner and authors. Materials previously published in whole or in part shall not be considered for publication. At the time of submission, authors must report that the manuscript has not been published elsewhere. Abstracts or posters displayed at scientific meetings need not be reported.

#### MANUSCRIPT SUBMISSION PROCEDURES

MIRT only accepts electronic manuscript submission at the web site <http://www.journalagent.com/mirt/>. After logging on to the website Click the 'online manuscript submission' icon. All corresponding authors should be provided with a password and a username after entering the information required. If you already have an account from a previous submission, enter your username and password to submit a new or revised manuscript. If you have forgotten your username and/or password, please send an e-mail to the editorial office for assistance. After logging on to the article submission system please read carefully the directions of the system to give all needed information and attach the manuscript, tables and figures and additional documents.

#### All Submissions Must Include:

1. Completed Copyright Assignment & Disclosure of Potential Conflict of Interest Form; This form should be downloaded from the website (provided in the author section), filled in thoroughly and uploaded to the website during the submission.
2. All manuscripts describing data obtained from research conducted in human participants must be accompanied with an approval document by the ethical review board.
3. All manuscripts reporting experiments using animals must include approval document by the animal ethical review board.
4. All submissions must include the authorship contribution form which is signed by all authors.

Authors must complete all online submission forms. If you are unable to successfully upload the files please contact the editorial office by e-mail.

#### MANUSCRIPT PREPARATION

##### General Format

The Journal requires that all submissions be submitted according to these guidelines:

- Text should be double spaced with 2.5 cm margins on both sides using 12-point type in Times Roman font.
- All tables and figures must be placed after the text and must be labeled.
- Each section (abstract, text, references, tables, figures) should start on a separate page.
- Manuscripts should be prepared as a word document (\*.doc) or rich text format (\*.rtf).
- Please make the tables using the table function in Word.
- Abbreviations should be defined in parenthesis where the word is first mentioned and used consistently thereafter.
- Results should be expressed in metric units. Statistical analysis should be done accurately and with precision. Please consult a statistician if necessary.
- Authors' names and institutions should not be included in the manuscript text and should be written only in the title page.

#### Title Page

The title page should be a separate form from the main text and should include the following:

- Full title (in English and in Turkish). Turkish title will be provided by the editorial office for the authors who are not Turkish speakers.
- Authors' names and institutions.
- Short title of not more than 40 characters for page headings.
- At least three and maximum eight keywords. (in English and in Turkish). Do not use abbreviations in the keywords. Turkish keywords will be provided by the editorial office for the authors who are not Turkish speakers. If you are not a native Turkish speaker, please reenter your English keywords to the area provided for the Turkish keywords. English keywords should be provided from <http://www.nlm.nih.gov/mesh> (Medical Subject Headings) while Turkish keywords should be provided from <http://www.bilimterimleri.com>.
- Word count (excluding abstract, figure legends and references).
- Corresponding author's e-mail and address, telephone and fax numbers.
- Name and address of person to whom reprint requests should be addressed.

#### Original Articles

Authors are required to state in their manuscripts that ethical approval from an appropriate committee and informed consents of the patients were obtained.

Original Articles should be submitted with a structured abstract of no more than 250 words. All information reported in the abstract must appear in the manuscript. The abstract should not include references. Please use complete sentences for all sections of the abstract. Structured abstract should include background, objective, methods, results and conclusions. Turkish abstract will be provided by the editorial office for the authors who are not Turkish speakers. If you are not a native Turkish speaker, please reenter your English abstract to the area provided for the Turkish abstract.

- Introduction
- Materials and Methods
- Results
- Discussion
- Study Limitations
- Conclusion

May be given for contributors who are not listed as authors, or for grant support of the research.

References should be cited in numerical order (in parentheses) in the text and listed in the same numerical order at the end of the manuscript on a separate page or pages. The author is responsible for the accuracy of references. Examples of the reference style are given below. Further examples will be found in the articles describing the Uniform Requirements for Manuscripts Submitted to Biomedical Journals (Ann Intern Med.1988; 208:258-265, Br Med J. 1988; 296:401-405). The titles of journals should be abbreviated according to the style used in the Index Medicus. Journal Articles and Abstracts: Surnames and initials of author's name, title of the article, journal name, date, volume number, and pages. All authors should be listed regardless of number. The citation of unpublished papers, observations or personal communications is not permitted. Citing an abstract is not recommended. Books: Surnames and initials of author's names, chapter title, editor's name, book title, edition, city, publisher, date and pages.

### INSTRUCTIONS TO AUTHORS

#### Sample References

Journal Article: Sayit E, Söylev M, Çapa G, Durak I, Ada E, Yılmaz M. The role of technetium-99m-HMPAO-labeled WBC scintigraphy in the diagnosis of orbital cellulitis. *Ann Nucl Med* 2001;15:41-44.

Erselcan T, Hasbek Z, Tandogan I, Gumus C, Akkurt I. Modification of Diet in Renal Disease equation in the risk stratification of contrast induced acute kidney injury in hospital inpatients. *Nefrologia* 2009 doi: 10.3265/Nefrologia.2009.29.5.5449.en.full.

Article in a journal published ahead of print: Ludbrook J. Musculo-venous pumps in the human lower limb. *Am Heart J* 2009;00:1-6. (accessed 20 February 2009).

Lang TF, Duryea J. Peripheral Bone Mineral Assessment of the Axial Skeleton: Technical Aspects. In: Orwoll ES, Bliziotes M (eds). *Osteoporosis: Pathophysiology and Clinical Management*. New Jersey, Humana Press Inc, 2003;83-104.

**Books:** Greenspan A. *Orthopaedic Radiology a Practical Approach*. 3th ed. Philadelphia, Lippincott Williams Wilkins 2000, 295-330.

Website: Smith JR. 'Choosing Your Reference Style', *Online Referencing* 2(3), <http://orj.sagepub.com> (2003, accessed October 2008).

#### - Tables

Tables must be constructed as simply as possible. Each table must have a concise heading and should be submitted on a separate page. Tables must not simply duplicate the text or figures. Number all tables in the order of their citation in the text. Include a title for each table (a brief phrase, preferably no longer than 10 to 15 words). Include all tables in a single file following the manuscript.

#### - Figure Legends

Figure legends should be submitted on a separate page and should be clear and informative.

#### - Figures

Number all figures (graphs, charts, photographs, and illustrations) in the order of their citation in the text. At submission, the following file formats are acceptable: AI, EMF, EPS, JPG, PDF, PPT, PSD, TIF. Figures may be embedded at the end of the manuscript text file or loaded as separate files for submission. All images MUST be at or above intended display size, with the following image resolutions: Line Art 800 dpi, Combination (Line Art + Halftone) 600 dpi, Halftone 300 dpi. Image files also must be cropped as close to the actual image as possible.

#### Short Communications:

Short communications should be submitted with a structured abstract of no more than 200 words. These manuscripts should be no longer than 2000 words, and include no more than two figures and tables and 20 references. Other rules which the authors are required to prepare and submit their manuscripts are the same as described above for the original articles.

#### Invited Review Articles:

- Title page (see above)

- Abstract: Maximum 250 words; without structural divisions; in English and in Turkish. Turkish abstract will be provided by the editorial office for the authors who are not Turkish speakers. If you are not a native Turkish speaker, please reenter your English abstract to the area provided for the Turkish abstract.

- Text

- Conclusion

- Acknowledgements (if any)

- References

#### Editorial:

- Title page (see above)

- Abstract: Maximum 250 words; without structural divisions; in English and in Turkish. Turkish abstract will be provided by the editorial office for the authors who are not Turkish speakers. If you are not a native Turkish speaker, please reenter your English abstract to the area provided for the Turkish abstract.

- Text

- References

#### Case Report and Literature Review

- Title page (see above)

- Abstract: Approximately 100-150 words; without structural divisions; in English and in Turkish. Turkish abstract will be provided by the editorial office for the authors who are not Turkish speakers. If you are not a native Turkish speaker, please re-enter your English abstract to the area provided for the Turkish abstract.

- Introduction

- Case report

- Literature Review and Discussion

- References

#### Interesting Image:

No manuscript text is required. Interesting Image submissions must include the following:

**Title Page:** (see Original article section)

Abstract: Approximately 100-150 words; without structural divisions; in English and in Turkish. Turkish abstract will be provided by the editorial office for the authors who are not Turkish speakers. If you are not a native Turkish speaker, please re-enter your English abstract to the area provided for the Turkish abstract. Image(s): The number of images is left to the discretion of the author. (See Original article section)

Figure Legend: Reference citations should appear in the legends, not in the abstract. Since there is no manuscript text, the legends for illustrations should be prepared in considerable detail but should be no more than 500 words total. The case should be presented and discussed in the Figure legend section.

References: Maximum eight references (see original article section).

#### Letters to the Editor:

- Title page (see above)

- Short comment to a published work, no longer than 500 words, no figures or tables.

- References no more than five.

Consensus Statements or Guidelines: These manuscripts should typically be no longer than 4000 words and include no more than six figures and tables and 120 references.

#### Proofs and Reprints

Proofs and a reprint orders are sent to the corresponding author. The author should designate by footnote on the title page of the manuscript the name and

### INSTRUCTIONS TO AUTHORS

address of the person to whom reprint requests should be directed. The manuscript when published will become the property of the journal.

#### Archiving

The editorial office will retain all manuscripts and related documentation (correspondence, reviews, etc.) for 12 months following the date of publication or rejection.

#### Submission Preparation Checklist

As part of the submission process, authors are required to check off their submission's compliance with all of the following items, and submissions may be returned to authors that do not adhere to these guidelines.

1. The submission has not been previously published, nor is it before another journal for consideration (or an explanation has been provided in Comments to the Editor).
2. The submission file is in Microsoft Word, RTF, or WordPerfect document file format. The text is double-spaced; uses a 12-point font; employs italics, rather than underlining (except with URL addresses); and the location for all illustrations, figures, and tables should be marked within the text at the appropriate points.
3. Where available, URLs for the references will be provided.
4. All authors should be listed in the references, regardless of the number.
5. The text adheres to the stylistic and bibliographic requirements outlined in the Author Guidelines, which is found in About the Journal.
6. English keywords should be provided from [http://www.nlm.nih.gov/mesh\(Medical Subject Headings\)](http://www.nlm.nih.gov/mesh(Medical Subject Headings)), while Turkish keywords should be provided from <http://www.bilimterimleri.com>
7. The title page should be a separate document from the main text and should be uploaded separately.
8. The "Affirmation of Originality and Assignment of Copyright/The Disclosure Form for Potential Conflicts of Interest Form" and Authorship Contribution Form should be downloaded from the website, filled thoroughly and uploaded during the submission of the manuscript.

#### TO AUTHORS

##### Copyright Notice

The author(s) hereby affirms that the manuscript submitted is original, that all statement asserted as facts are based on author(s) careful investigation and research for accuracy, that the manuscript does not, in whole or part, infringe any copyright, that it has not been published in total or in part and is not being submitted or considered for publication in total or in part elsewhere. Completed

Copyright Assignment & Affirmation of Originality Form will be uploaded during submission. By signing this form;

1. Each author acknowledges that he/she participated in the work in a substantive way and is prepared to take public responsibility for the work.
2. Each author further affirms that he or she has read and understands the "Ethical Guidelines for Publication of Research".
3. The author(s), in consideration of the acceptance of the manuscript for publication, does hereby assign and transfer to the Molecular Imaging and Radionuclide Therapy all of the rights and interest in and the copyright of the work in its current form and in any form subsequently revised for publication and/or electronic dissemination.

##### Privacy Statement

The names and email addresses entered in this journal site will be used exclusively for the stated purposes of this journal and will not be made available for any other purpose or to any other party.

##### Peer Review Process

1. The manuscript is assigned to an editor, who reviews the manuscript and makes an initial decision based on manuscript quality and editorial priorities.
2. For those manuscripts sent for external peer review, the editor assigns at least two reviewers to the manuscript.
3. The reviewers review the manuscript.
4. The editor makes a final decision based on editorial priorities, manuscript quality, and reviewer recommendations.
5. The decision letter is sent to the author.

##### Contact Address

All correspondence should be directed to the Editorial Office:

Cinnah Caddesi Pilot Sokak No:10/12 06650 Çankaya / Ankara, Turkey

Phone: +90 312 441 00 45

Fax: +90 312 441 12 97

E-mail: [info@tsnmjournals.org](mailto:info@tsnmjournals.org)



#### Original Articles

- 1** The Role of  $^{18}\text{F}$ -FDG PET/CT in Evaluating the Efficacy of Radiofrequency Ablation in Metastatic and Primary Liver Tumors: Preliminary Results  
*Metastatik ve Primer Karaciğer Tümörlerinde Radyofrekans Ablasyonun Etkinliğinin Değerlendirilmesinde  $^{18}\text{F}$ -FDG PET/CT'nin Rolü: Ön Sonuçlar*  
Gabriela Mateva, Stoyan Handzhiev, Irena Kostadinova; Sofia, Bulgaria
- 8** The Diagnostic Contribution of SPECT/CT Imaging in the Assessment of Gastrointestinal Bleeding: Especially for Previously Operated Patients  
*Gastrointestinal Kanama Yeri Değerlendirilmesinde SPECT/CT'nin Tanısal Yeteneği ve Katkısı: Özellikle Ameliyat Öyküsü Bulunan Hastalarda*  
Selin Soyluoğlu, Ülkü Korkmaz, Büşra Özdemir, Gülay Durmuş Altun; Edirne, Turkey
- 18**  $^{18}\text{F}$ Fluorine-fluorodeoxyglucose PET/CT Imaging in Childhood Malignancies  
*Çocukluk Çağı Malignitelerinde  $^{18}\text{F}$ Flor-florodeoksiglukoz PET/CT Görüntüleme*  
Nilüfer Bıçakçı, Murat Elli; Samsun, İstanbul, Turkey
- 28** Correlation Between Perfusion Abnormalities Extent in Ventilation/Perfusion SPECT/CT with Hemodynamic Parameters in Patients with Chronic Thromboembolic Pulmonary Hypertension  
*Kronik Tromboembolik Pulmoner Hipertansiyonlu Hastalarda Ventilasyon/Perfüzyon SPECT/CT'de Saptanan Perfüzyon Defekti Yaygınlığı ile Hemodinamik Parametreler Arasındaki İlişki*  
Salih Özgüven, Selin Kesim, Kevser Öksüzoğlu, Mehmed Yanartaş, Serpil Taş, Feyza Şen, Tunç Öneş, Sabahat İnanır, Halil Turgut Turoğlu, Bülent Mutlu, Tanju Yusuf Erdil, Bedrettin Yıldızeli; İstanbul, Turkey
- 34** Comparison of Radiochemical and Chemical Impurities in Liquid Wastes of Two Different  $^{68}\text{Ge}/^{68}\text{Ga}$  Generators used in Nuclear Medicine PET Chemistry  
*Nükleer Tıp PET Kimyasında Kullanılan İki Farklı  $^{68}\text{Ge}/^{68}\text{Ga}$  Jeneratörünün Sıvı Atıklarındaki Radyokimyasal ve Kimyasal Kirliliklerinin Karşılaştırılması*  
Ayşe Uğur, Olga Yaylalı, Doğançün Yüksel; Denizli, Turkey
- 39** Physiological Biodistribution of  $^{68}\text{Ga}$ -DOTA-TATE in Normal Subjects  
*Normal Olgularda  $^{68}\text{Ga}$ -DOTA-TATE'nin Fizyolojik Biyolojik Dağılımı*  
Salih Özgüven, Nuh Filizoğlu, Selin Kesim, Kevser Öksüzoğlu, Feyza Şen, Tunç Öneş, Sabahat İnanır, Halil Turgut Turoğlu, Tanju Yusuf Erdil; İstanbul, Turkey
- 47**  $^{18}\text{F}$ -FDG PET/CT Imaging of Metastatic Testicular Choriocarcinoma Mimicking Gastric Cancer which Initial Symptom is Melena  
*Başlangıç Semptomu Melena Olan Mide Kanserini Taklit Eden Metastatik Testis Koryokarsinomunun  $^{18}\text{F}$ -FDG PET/CT Görüntülemesi*  
Sibel Göksel, Serkan Akın, Remzi Adnan Akdoğan, Sema Rakıcı, Göksu Yavuz Abdioğlu, Muhammet Ali Ayvaz; Rize, Turkey

- 50** Somatostatin Receptor Scintigraphy in a Patient with Myocarditis  
*Miyokarditli Bir Hastada Somatostatin Reseptör Sintigrafisi*  
Abdullatif Amini, Firoozeh Dehdar, Esmail Jafari, Ali Gholamrezanezhad, Majid Assadi; Bushehr, Iran, Los Angeles, USA
- 54** Small-angle Compton Scatter Artifact in Tc-99m-IDA Hepatobiliary Scintigraphy Resulting in the Breast Overlying the Liver in Planar Dynamic Imaging  
*Tc-99m-IDA Hepatobiliyer Sintigrafi Planar Dinamik Görüntülemeye Karaciğer ile Üst Üste Gelen Meme Nedeniyle Oluşan Küçük Açılı Compton Saçılım Artefaktı*  
Mohsen Qutbi; Tehran, Iran
- 57** Active Giant Cell Vasculitis Diagnosis with <sup>68</sup>Ga PSMA PET/CT Imaging  
*<sup>68</sup>Ga PSMA PET/BT Görüntüleme ile Aktif Dev Hücreli Vaskülit Teşhisi*  
Muhammet Sait Sağır, Seçkin Bilgiç, Lebriz Uslu, Sertaç Asa, Güneş Sağır, Kerim Sönmezoğlu; İstanbul, Turkey
- 60** Unexpected Detection of Abscessualized Lung Carcinoma on Tc-99m-HMPAO-labeled Leukocytes Scintigraphy Misdiagnosed on Chest Computed Tomography  
*Toraks Bilgisayarlı Tomografisinde Yanlış Teşhis Edilen Apseseleşmiş Akciğer Karsinomunun Tc-99m-HMPAO İşaretli Lökosit Sintigrafisi ile Beklenmedik Tespiti*  
Laura Cosma, Viviana Frantellizzi, Mariano Pontico, Giuseppe De Vincentis; Rome, Italy
- 63** <sup>68</sup>Ga PSMA Uptake at Roux-en-Y Eso-jejunostomy Junction Mimicking the Recurrence of Gastric Carcinoma in PET/CT  
*<sup>68</sup>Ga PSMA PET/BT Görüntülemeye Roux-en-Y Oeso-jejunostomi Anastomoz Hattında Gastrik Karsinomun Nüksünü Taklit Eden PSMA Tutulumu*  
Esra Arslan, Tamer Aksoy, Merve Cin, Coşkun Çakır, Fadime Didem Can Trabulus, Tevfik Fikret Çermik; İstanbul, Turkey
- Letter to the Editor**
- 67** Reply to Comment on: Lung Perfusion Imaging with Technetium-99m-macroaggregated Albumin should be Combined with Contrast-enhanced Echocardiography for the Diagnosis of Hepatopulmonary Syndrome  
*"Hepatopulmoner Sendrom Tanısı için Teknesyum-99m-makroagregre Albümin ile Akciğer Perfüzyon Görüntüleme, Kontrastlı Ekokardiyografi ile Kombine Edilmelidir" Yorumuna Yanıt*  
Majid Assadi; Bushehr, Iran