

ISSN: 2146-1414

MIRT

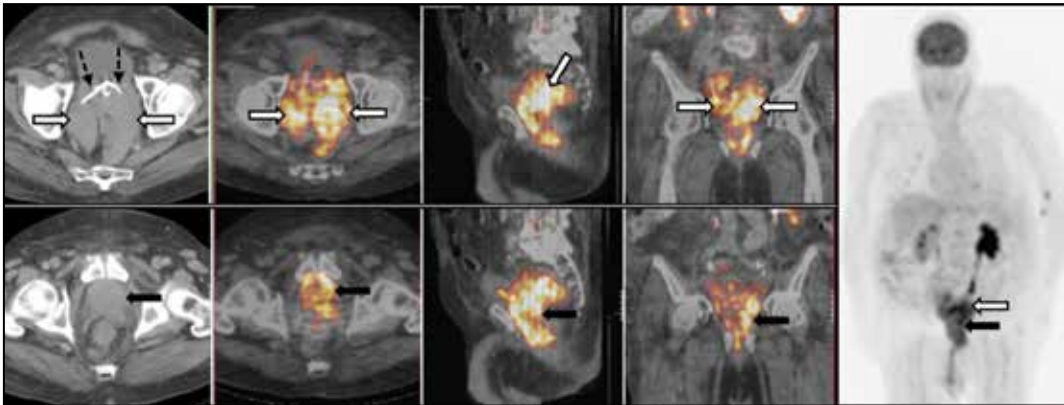
Molecular Imaging and Radionuclide Therapy

February 2016

volume 25

issue 1

www.tsnm.org



galenos
yayinevi

"Official Journal of the Turkish Society of Nuclear Medicine"



The Owner on Behalf of Turkish Society of Nuclear Medicine

Prof. Dr. Zehra Özcan

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

Publishing Manager

Prof. Dr. Hatice Durak

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

Editor in Chief

Prof. Dr. Hatice Durak

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

E-mail: durak.hatice@gmail.com

Associate Editors

Murat Fani Bozkurt

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

E-mail: fanibozkurt@gmail.com

Firat Güngör

Emsey Hospital, Clinic of Nuclear Medicine, İstanbul, Turkey

E-mail: firat.gungor@emseyhospital.com

Özhan Özdoğan

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

E-mail: ozhan.ozdogan@deu.edu.tr

Statistics Editor

Gül Ergör

Dokuz Eylül University Faculty of Medicine, Department of Public Health, İzmir, Turkey

Editorial Board

Emel Ada

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

E-mail: emel.ada@deu.edu.tr

Işık Adalet

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

Claudine Als

Clinique Zitha, Department of Nuclear Medicine, Luxembourg

Vera Artiko

University of Belgrade Faculty of Medicine, Clinical Center of Serbia, Center for Nuclear Medicine, Belgrade, Serbia

Neşe Atabey

Dokuz Eylül University Faculty of Medicine, Department of Medical Biology, İzmir, Turkey

Tamer Atasever

Medipol Hospital, Clinic of Nuclear Medicine, İstanbul, Turkey

Marika Bajc

University Hospital Lund, Clinic of Clinical Sciences, Lund, Sweden

Kemal Baysal

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

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, Bonn, Germany

Elvan Sayit Bilgin

Celal Bayar University Faculty of Medicine, Department of Nuclear Medicine, Manisa, Turkey

Doğan Bor

Ankara University Faculty of Engineering, Department of Physics Engineering, Ankara, Turkey

Patrick Bourguet

Cancer Center Eugène Marquis and University of Rennes, Service de Médecine Nucléaire, Rennes, France

Zeynep Burak

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

Arturo Chiti

Humanitas University, Department of Nuclear Medicine, Milan, Italy

Josep Martin Comin

Bellvitge-Idibell University Hospital, Department of Nuclear Medicine, Barcelona, Spain

Alberto Cuocolo

University Federico II, Department of Advanced Biomedical Sciences, Napoli, Italy

Angelika Bischof Delaloye

University of Lausanne, Department of Radiology, Lausanne, Switzerland

Mustafa Demir

İstanbul University Cerrahpaşa Faculty of Medicine, Department of Nuclear Medicine, İstanbul, Turkey

Peter Joseph Ell

University College Hospital, Institute of Nuclear Medicine, London, United Kingdom

Taner Erselcan

Cumhuriyet University Faculty of Medicine, Department of Nuclear Medicine, Sivas, Turkey

Türkan Ertay

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

Jure Fettich

University Medical Centre Ljubljana, Department for Nuclear Medicine, Ljubljana, Slovenia

Christiane Franzius

Centre of Nuclear Medicine and PET/CT, Bremen, Germany

Lars Friberg

Bispebjerg University Hospital, Clinic of Clinical Physiology and Nuclear Medicine, Copenhagen, Denmark

Maria Lyra 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

Liselotte Højgaard

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

Erkan İbiş

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

Ora Israel

Rambam Health Care Campus, and B&R Rappaport Faculty of Medicine, Department of Nuclear Medicine, Technion-Israel Institute of Technology, Haifa, Israel

Özlem Kapucu

Gazi University Faculty of Medicine, Department of Nuclear Medicine, Ankara, Turkey

Nevzat Karabulut

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

Gamze Çapa Kaya

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

Suna Kırac

Yakın Doğu University Faculty of Medicine, Department of Nuclear Medicine, Nicosia, Cyprus

Irena Dimitrova Kostadinova

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

Georgios S Limouris

Athens University Medical Faculty, Nuclear Medicine Division, Radiology Department I, "Aretaieion" Hospital, Athens, Greece

Ayşe Mudun

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

Vladimir Obradovic

University of Belgrade Faculty of Medicine, Clinical Center of Serbia, Center of Nuclear Medicine, Belgrade, Serbia

Zehra Özcan

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

Serdar Özçelik

İzmir Institute of Technology, Faculty of Science, Department of Physic, İzmir, Turkey

Mehmet Ali Özgüven

Koru Hospital, Clinic of Nuclear Medicine, Ankara, Turkey

Francesca Pons

Hospital Clinic of Barcelona, Department of Nuclear Medicine, Barcelona, Spain

İlknur Ak Sivriköz

Osmangazi University Faculty of Medicine, Department of Nuclear Medicine, Eskişehir, Turkey

Istvan Szilvasi

Semmelweis University of Medicine, Kútvölgyi Clinical Unit, Isotope Laboratory, Budapest, Hungary

Dragana Sobic Saranovic

University of Belgrade Faculty of Medicine, Clinical Center of Serbia, Center of Nuclear Medicine, Belgrade, Serbia

Mathew L Thakur

Thomas Jefferson University, Department of Radiology, Pennsylvania, United States

Perihan Ünak

Ege University, Institute of Nuclear Sciences, İzmir, Turkey

Seher Ünal

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

Akın Yıldız

Medstar Antalya Hospital, Clinic of Nuclear Medicine, Antalya, Turkey

© The paper used to print this journal conforms to ISO 9706: 1994 standard (Requirements for Permanence). The National Library of Medicine suggests that biomedical publications be printed on acid-free paper (alkaline paper). 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.

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"

**Galenos Publisher Contact**

Address: Molla Gürani Mahallesi Kaçamak Sokak No: 21
34093 Fındıkzade-İstanbul-Turkey

Phone: +90 (212) 621 99 25 Fax: +90 (212) 621 99 27

E-mail: info@galenos.com.tr Web Site: www.galenos.com.tr

Printing at: Senk Ajans Reklam Matb. San. ve Tic. Ltd. Şti.
Sanayi Mahallesi Sultan Selim Caddesi Aybike Sokak Cihad İş Merkezi

No:22/-3 Kağıthane-İstanbul-Turkey

Phone: +90 212 264 38 77

Date of printing: February 2016

ISSN: 2146-1414

ONLINE ISSN: 2147-1959



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, 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 (2013, archived at <http://www.icmje.org/>) rules.

Molecular Imaging and Radionuclide Therapy is indexed in Pubmed, Pubmed Central (PMC), TUBITAK-ULAKBIM, Gale/Cengage Learning, EBSCO databases, ProQuest Health & Medical Complete, CINAHL, DOAJ, Türkiye Atrf Dizini (Türkiye Citation Index), Turk Medline.

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>

Instructions for Authors

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

Correspondence Address

Editor in Chief, Hatice Durak, MD, Professor in Nuclear Medicine
Dokuz Eylül University Faculty of Medicine, Department of Nuclear Medicine
35340 Balçova / İZMİR

Phone : +90 212 621 99 25

Fax : +90 212 621 99 27

e-mail : haticedurak@tsnmjournals.org

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

The journal is printed on an acid-free paper.

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

Molecular Imaging and Radionuclide Therapy (Mol Imaging Radionucl Ther, MIRT) publishes original research articles, 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 by the Turkish Society of Nuclear Medicine three times a year (February, June, October). The journal is printed on an acid-free paper.

Molecular Imaging and Radionuclide Therapy is indexed in Pubmed, Pubmed Central (PMC), TUBITAK-ULAKBIM, Gale/Cengage Learning, EBSCO databases, ProQuest Health & Medical Complete, CINAHL, DOAJ, Türkiye Atıf Dizini (Türkiye Citation Index), Turk Medline.

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

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 2001). 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 2008. (<http://www.wma.net/en/30publications/10policies/b3/index.html>) 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 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) and indicating approval by the ethical review board.
- Case reports should be accompanied by INFORMED CONSENT and the identity of the patient 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.
- 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.

MANUSCRIPT CATEGORIES

1. Original Articles

2. Short Communications are short descriptions of focused studies with important, but very straightforward results. These manuscripts should be no longer than 2000 words, and include no more than two figures and tables and 20 references.

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 accompanied by a review of the literature on the related topic. They should include an adequate number of images and figures.

6. 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. These manuscripts should typically be no longer than 4000 words and include no more than six figures and tables and 120 references.

7. 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. Letters should be no longer than 500 words with no more than five complete references, and may not include any figures or tables.

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 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 www.mirt.tsnmjournals.org. 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.

INSTRUCTIONS TO AUTHORS

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. Informed consent (for case reports); Authors must complete the online submission forms. If you are unable to successfully upload the files please contact the editorial office by e-mail.

There is no submission fee for MIRT.

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.

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 key words. (in English and in Turkish) Do not use abbreviations in the key words. Turkish key words 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 keywords to the area provided for the Turkish keywords. English key words should be provided from <http://www.nlm.nih.gov/mesh> (Medical Subject Headings) while Turkish key words 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. These documents may be asked by the reviewers or the editorial board during the submission process.

- **Abstract:** (in English and in Turkish) 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 re enter your English abstract to the area provided for the Turkish abstract.

- Introduction
- Materials and Methods
- Results
- Discussion
- Study Limitations
- Conclusion
- **Acknowledgement:** May be given for contributors who are not listed as authors, or for grant support of the research.
- **References:** 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.

Sample References

Journal Article: Sayit E, Söylev M, Capa 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.

Article with DOI Number: 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. Musculovenous pumps in the human lower limb. *Am Heart J* 2009;00:1-6. (accessed 20 February 2009).

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

Books: Greenspan A. *Orthopaedic Radiology a Pratical 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.

INSTRUCTIONS TO AUTHORS

- 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.

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 re enter your English abstract to the area provided for the Turkish abstract.
- Text
- Conclusion
- Acknowledgements (if any)
- 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

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 re enter your English abstract to the area provided for the Turkish abstract.
- Text
- References

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.

Proofs and Reprints

Proofs and a reprint order are sent to the corresponding author. The author should designate by footnote on the title page of the manuscript the name and 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), while Turkish key words should be provided from <http://www.bilinterimleri.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" 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.

Review

- 1** Nuclear Medicine Imaging in Pediatric Neurology
Pediyatrik Nörolojide Nükleer Tıp Görüntüleme
Ümit Özgür Akdemir, Lütfiye Özlem Atay Kapucu; Ankara, Turkey

Original Articles

- 11** Diagnostic Accuracy of ¹⁸F-Fluorodeoxyglucose Positron Emission Tomography-Computed Tomography in the Evaluation of Carcinoma of Unknown Primary
Primeri Bilinmeyen Karsinomun Değerlendirilmesinde ¹⁸F-Florodeoksiglikoz Pozitron Emisyon Tomografisi/Bilgisayarlı Tomografinin Tanısal Doğruluğu
Saima Riaz, Muhammad Khalid Nawaz, Zia S Faruqi, Syed Ather Saeed Kazmi, Asif Loya, Humayun Bashir; Lahore, Pakistan
- 19** Pre-clinical Positron Emission Tomography Reconstruction Algorithm Effect on Cu-64 ATSM Lesion Hypoxia
Pre-klinik Pozitron Emisyon Tomografisi Rekonstrüksiyon Algoritmasının Cu-64 ATSM Lezyon Hipoksisi Üzerine Etkisi
Bal Sanghera, Katie Wood, Luke I Sonoda, Andrew Gogbashian, Gerry Lowe, Andre Nunes, James Stirling, Chris Shepherd, Gwen Beynon, Wai Lup Wong; Northwood, Guildford, UK
- 26** Comparison of 180° and 360° Arc Data Acquisition to Measure Scintigraphic Parameters from Gated Single Photon Emission Computed Tomography Myocardial Perfusion Imaging: Is There Any Difference?
Geçitli Tek Foton Emisyon Bilgisayarlı Tomografi Miyokard Perfüzyon Görüntülemesi ile Elde Edilen Sintigrafik Parametrelerin Ölçümünde 180° ve 360° Açı ile Veri Toplanması Karşılaştırılması: Herhangi Bir Fark Var mı?
Hamid Javadi, Ali Mahmoud-Pashazadeh, Mehdi Mogharrabi, Darioush Iranpour, Abdolatif Amini, Mohammadreza Pourbehi, Mehdi Akbarzadeh, Iraj Nabipour, Majid Assadi; Gorgan, Bushehr, Iran
- 32** ¹⁸F-FLT Positron Emission Tomography/Computed Tomography Imaging in Pancreatic Cancer: Determination of Tumor Proliferative Activity and Comparison with Glycolytic Activity as Measured by ¹⁸F-FDG Positron Emission Tomography/Computed Tomography Imaging
Pankreas Kanseriinde ¹⁸F-FLT Pozitron Emisyon Tomografisi/Bilgisayarlı Tomografi Görüntülemesi: Tümör Çoğalma Hızının Belirlenmesi ve ¹⁸F-FDG Pozitron Emisyon Tomografisi/Bilgisayarlı Tomografi ile Ölçülen Glikolitik Aktivite ile Karşılaştırılması
Senait Aknaw Debebe, Mohammed Goryawala, Malek Adjouadi, Anthony J. Mcgoron, Seza A. Güleç; Miami, USA

Case Reports

- 39** Detection of Superior Vena Cava Obstruction on Dynamic ^{99m}Tc-DTPA Renal Transplant Scintigraphy
Dinamik ^{99m}Tc-DTPA Renal Transplant Sintigrafisi ile Saptanan Superior Vena Cava Obstrüksiyonu
Elahe Pirayesh, Hamidreza Hashemifard, Majid Assadi; Tehran, Sabzevar, Bushehr, Iran
- 42** Tissue-Muscle Perfusion Scintigraphy of the Lower Limbs in a Patient with Type 2 Diabetes Mellitus and Peripheral Arterial Disease
Tip 2 Diabetes Mellitus ve Periferik Arter Hastalığı Olan Bir Hastada Alt Ekstremitte Doku-Kas Perfüzyon Sintigrafisi
Nevena Manevska, Daniela Pop Gjorceva, Irfan Ahmeti, Lidija Todorovska, Sinisa Stojanoski, Marina Zdraveska Kocovska; Skopje, Macedonia
- 47** Extrapulmonary Small Cell Carcinoma of the Seminal Vesicles and Prostate Demonstrated on ¹⁸F-FDG Positron Emission Tomography/Computed Tomography
¹⁸F-FDG Pozitron Emisyon Tomografisi/Bilgisayarlı Tomografi ile Saptanan Seminal Vezikül ve Prostat Ekstrapulmoner Küçük Hücreli Karsinomu
Amir Iravani Tabrizipour, Lily Shen, Robert Mansberg, Bui Chuong; Penrith, NSW, Australia