

### **A**RCHIVES OF

# RHEUMATOLOGY



Volume: 34 Issue: 2 June 2019



## ARCHIVES OF RHEUMATOLOGY

#### Official Journal of the Turkish League Against Rheumatism

Volume 34 • Number 2 • June 2019

#### Owner President and Responsible Manager

Hatice BODUR, Turkey

#### **Editor-in-Chief** İlker YAĞCI, Turkey

#### **Editorial Advisor**

Armen Yuri GASPARYAN, United Kingdom

#### **Associate Editors**

Figen AYHAN, Turkey Özgür AKGÜL, Turkey Meltem ALKAN MELİKOĞLU, Turkey Esra GİRAY, Turkey Özge KENİŞ COŞKUN, Turkey

Sibel ÜNSAL DELİALİOĞLU, Turkey Olena ZIMBA, Ukraine

#### **Past Editors**

Tansu ARASIL, Turkey Hami KOÇAŞ, Turkey Peyman YALÇIN, Turkey F. Deniz EVCİK, Turkey Levent ÖZÇAKAR, Turkey

#### **Biostatistical Consultants**

Can ATEŞ, Turkey Beyza DOĞANAY, Turkey Erdem KARABULUT, Turkey Umut ÖZBEK, Turkey Pınar ÖZDEMİR, Turkey Derya ÖZTUNA, Turkey Yasemin YAVUZ, Turkey

#### **Editorial Board**

Ali-Reza KHABAZZI, Iran
Armen Yuri GASPARYAN, UK
Atul DEODHAR, USA
Banu KURAN, Turkey
Branimir ANIC, Croatia
Bülent BÜTÜN, Turkey
Durga Prasanna MISRA, India
Eduardo COLLANTES-ESTÉVEZ, Spain
Erhan ÇAPKIN, Turkey
Fatoş YALÇINKAYA, Turkey
Fernando CAVALCANTI, Brasil
Franco FRANCHIGNONI, Italy
Gülseren AKYÜZ, Turkey
Haşim ÇAKIRBAY, Turkey

Hatice UĞURLU, Turkey İlknur AKTAŞ, Turkey Jens Gert KUIPERS, Germany Kassim JAVAID, UK Kemal NAS, Turkey Laszlo CZIRJAK, Hungary Maxime BREBAN, France Mohamed KAMEL, USA Murat BİRTANE, Turkey Nevsun İNANÇ, Turkey Ozgür KASAPÇOPUR, Turkey Peter KORNAAT, Netherlands Robert LAHITA, USA Roy ALTMAN, USA Sami HİZMETLİ, Turkey Stefano BOMBARDIERI, Italy Steffen GAY, Switzerland Şebnem ATAMAN, Turkey Tamas BENDER, Hungary Tamer A. GHEITA, Egypt Tatjana ZEKIĆ, Croatia Tuncay DURUÖZ, Turkey Tuulikki SOKKA, Finland Ulf MÜLER-LADNER, Germany Umut KALYONCU, Turkey Zeynep Birsin ÖZÇAKAR, Turkey

#### ARCHIVES OF RHEUMATOLOGY

Owner President / On behalf of Turkish League Against Rheumatism Türkiye Romatizma Araştırma ve Savaş Derneği adına Sahibi

Hatice BODUR, Ankara, Turkey

Responsible Manager Sorumlu Yazı İşleri Müdürü

Hatice BODUR, Ankara, Turkey

Archives of Rheumatology is indexed in Science Citation Index Expanded, PubMed Central, Embase, Scopus, Cinahl, Index Copernicus, Gale/Cengage Learning, EBSCO, DOAJ, ProQuest, CiteFactor and TÜBİTAK, ULAKBİM (Turkish Medical Abstracts), Türk Medline, Turkish Citation Index databases.

Archives of Rheumatology is a peer-reviewed journal published four times a year (March, June, September, December) by the Turkish League Against Rheumatizm (TLAR). Material published in the Journal is covered by copyright ©2019 Archives of Rheumatology. All rights reserved.

Executive office / Yönetim yeri ve adresi:
Beştepe Mah., Yaşam Cad., No: 13 A,
Neorama Plaza, K: 6, D: 26, 06520 Söğütözü, Ankara, Turkey.
Tel/Fax: +90 312 562 13 22

URL: http://www.archivesofrheumatology.org Editorial Contact Person / *Îletişim*:

İlker Yağcı, M.D.

e-mail: drilkery@gmail.com

Publisher / Yayıncı:
Bayçınar Tibbi Yayıncılık ve Reklam Hiz. Tic. Ltd. Şti.
Örnek Mah., Dr. Suphi Ezgi Sok., Saray Apt., No: 11, D: 6,
34704 Ataşehir, İstanbul, Turkey
Tel: +90 216 317 41 14
Fax (Faks): +90 216 317 63 68
e-mail / e-posta: info@baycinartibbiyayincilik.com
Web: www.baycinartibbiyayincilik.com
Yayıncı Sertifika No: 17557

Type of publication / Yayın türü:
Periodical / Yerel Süreli
Press / Baskı:
Ege Reklam Basım Sanatları San.Tic. Ltd. Şti.
Esatpaşa Mah. Ziyapaşa Cad. No: 4, 34704 Ataşehir, İstanbul
Tel: 0216 470 44 70 Fax: 0216 472 84 05
www.egebasim.com.tr Matbaa Sertifika No: 12468
Press date / Basım tarihi:
May 14, 2019 / 14 Mayıs 2019
Circulation / Raskı adeli; 400



This publication is printed on paper that meets the international standard ISO 9706: 1994

National Library of Medicine encourages the use of permanent, acid-free paper in the production of biomedical literature.

The control of conformity with the journal standards and the typesetting of the articles in this journal, the control of the abstracts and references and the preparation of the journal for publishing were performed by Bayçınar Medical Publishing.

Arch Rheumatol iii

#### **CONTENTS**

tructions for Authors	iv
RIGINAL ARTICLES	
Pro-inflammatory Cytokines and Oxidized Low-Density-Lipoprotein in Patients With Fibromyalgia Funda Canpolat Kutu, Şenay Özdolap, Selda Sarıkaya	123
Bone Mineral Loss and Fracture in Sarcoidosis: A Systematic Review and Meta-Analysis Wai Chung Yong, Sikarin Upala, Anawin Sanguankeo	
The Prevalence of Systemic Rheumatic Diseases Among Breast Cancer Patients and Its Relationship With Survival  Veli Sunar, Öztürk Ateş, Alma Korcalı Aslan, Yusuf Karakaş, Mustafa Kadri Altundağ	141
Association of Interleukin-17F 7488A/G and 7383A/G Polymorphisms With Rheumatoid Arthritis: A Meta-Analysis Ping Chen, Guangqiao He, Yi Yang, Yanlong Yang, Liangliang Li	148
The Predictive Value of Autoantibody Spectrum on Organ Damage in Patients With Systemic Lupus Erythematosus Fang Yuan, Fenghua Wei, Haiting Huang, Yi Xue, Pengwei Guo, Yanwu You	157
Association Between Human Leukocyte Antigen-B*27 and Pathogenesis in Seronegative Spondyloarthropathies in Federation of Bosnia and Herzegovina	
Elma Fejzić, Izet Eminović, Jasenko Karamehić, Amela Šahović, Sanela Šišić, Damir Suljević	166
Obesity, Echocardiographic Changes and Framingham Risk Score in the Spectrum of Gout: A Cross-Sectional Study Rada Gancheva, Atanas Koundurdjiev, Mariana Ivanova, Todor Kundurzhiev, Zlatimir Kolarov	176
The Impact of Perceived Social Support on Anxiety, Depression and Severity of Pain and Burnout Among Turkish Females With Fibromyalgia Nermin Gündüz, Ahmet Üşen, Emel Aydın Atar	186
Is Fibromyalgia Syndrome a Neuropathic Pain Syndrome?  Meryem Kösehasanoğulları, Nihan Erdinç Gündüz, Elif Akalın.	
Effects of Familial Mediterranean Fever on Cardiac Functions in Adults: A Cross-Sectional Study Based on Speckle Tracking Echocardiography Hilal Erken Pamukcu, Mehmet Doğan, Cem Özişler, Hamza Sunman, Melih Pamukcu, Lale Dinç Asarcıklı	204
Associations of Mitochondrial Deoxyribonucleic Acid Polymorphisms With Behçet's Disease in the Korean Population Mihye Kwon, Su-Jin Yoo, In Seol Yoo, Jinhyun Kim, Seong Wook Kang, In Ah Choi, Mi-Kyoung Lim, Chung-Il Joung	211
Serum/Synovial Fluid Urate Ratio as an Indicator for Distinguishing Gouty Arthritis From Other Arthritides Shunfei Lu, Qiankun Zhang, Yan Zhou	220
ASE REPORTS	
Accelerated Nodulosis in a Patient With Rheumatoid Arthritis Ayşe Ünal Enginar, Hakan Nur, Erdal Gilgil, Cahit Kaçar	225
Leptospirosis With Acute Renal Failure and Vasculitis: A Case Report Sibel Yücel Koçak, Ayşegül Kudu, Arzu Kayalar, Mürvet Yılmaz, Süheyla Apaydın	229
Immunoglobulin G4-Related Disease Presented as Recurrent Otitis Media and Mixed Hearing Loss Treated With Cyclophosphamide and Rituximab: A Case Report Shao San, Chia-der Lin, Sheng-ta Tsai, Chao-chun Lin, Po-chang Wu.	233
ETTERS TO THE EDITOR	
Neurologic Manifestations of Rheumatoid Arthritis: A Case of Cerebral Vasculitis Treated With Rituximab  Mohamad Ali Rida, Maysam El Najjar, Mira Merashli.	238
Treating Granulomatosis With Polyangiitis Presenting as Mastitis With Rituximab  Yaser Ali, Mohammad Khudadah, Maryam Alali, Smiley George, Ahmad Abdulsalam	241
Systemic Lupus Erythematosus With Lupus Nephritis Presented With Recurrent Massive Ascites: A Case of Pseudo-Pseudo Meigs Syndrome Abeer Awad, Mervet Essam, Asmaa Ezzat, Manal El Menyawi	243

#### INSTRUCTIONS FOR AUTHORS

#### AIMS AND SCOPE

The Archives of Rheumatology is an official journal of the Turkish League Against Rheumatism (TLAR) and is published quarterly in March, June, September, and December. It publishes original work on all aspects of rheumatology and disorders of the musculoskeletal system. The priority of the Archives of Rheumatology is to publish high-quality original articles, especially in inflammatory rheumatic disorders. It is an independent peer-reviewed international journal printed in English. Manuscripts are refereed by a "double-blind peer-reviewed" process for both referees and authors.

Editorial Board of the Archives of Rheumatology works under the principles of The World Association of Medical Editors (WAME), the International Council of Medical Journal Editors (ICMJE), and Committee on Publication Ethics (COPE).

The Archives of Rheumatology is indexed in the following databases:

- Science Citation Index Expanded SCIE
- Scopus
- The Cumulative Index to Nursing and Allied Health Literature (CINAHL Plus)
- Index Copernicus
- Academic Onefile (Gale/Cengage Learning)
- EBSCO Academic Search Premier
- EBSCO Academic Search Complete
- Directory of Open Access Journals (DOAJ)
- ProQuest Periodicals Index Online (PIA)
- CiteFactor
- Tubitak/Ulakbim Turk Tip Dizini
- Turk Medline and Turkiye Atif Dizini
- · Google Scholar
- PubMed Central

#### INSTRUCTIONS FOR AUTHORS

#### 1. Overview

All manuscripts should be understandable to the general reader and lead to improved decision making in clinical practice, medical education, research, and policy. Types of articles include Original Research Articles, Systematic Reviews, and Meta-Analyses, Narrative Reviews, Letters to the Editor and Images.

Manuscripts must be original and not under consideration by another publication at the time of submission. Ensure that you have read and understood the details noted in our editorial policy. Failure to comply can lead to delays in the processing of the manuscript, or even rejection.

#### 2. Manuscript Submission

Submission to The Archives of Rheumatology is only online. We do not accept submissions via email, nor hardcopies by hand or post. If you have trouble uploading and submitting the manuscript, please email to cigdemeratak@yazilimparki.com tr or ozgekenis@gmail.com for guidance.

The office contact details of the publisher are given below:

Bayçınar Tıbbi Yayıncılık ve Reklam Hizmetleri Tic. Ltd. Şti.

Address: Örnek Mah., Dr. Suphi Ezgi Sok.,

Saray Apt. No: 11, D: 6, 34704 Ataşehir, İstanbul, Turkey.

Phone: +90 216 317 41 14 Fax: +90 216 317 63 68

E-mail: info@baycinartibbiyayincilik.com

Please note that articles will not be processed without a cover letter and ethical approval of research.

#### 3. General Formatting

- All text must be written using MS Word.
- Font Type: Calibri, Times New Roman
- Font Size: 18 for the article title, 12 for article text
- Line Spacing should be set as 1.5.
- Alignment justified throughout with at least 3 cm of space on both sides.
- The page number should be added at the right bottom corner.
- The main text should not contain any information about the authors' names and affiliations, and it must be blinded completely.
- Abbreviations: The full term for which an abbreviation stands should precede the abbreviation's first use in the text in brackets and the use of standard abbreviations listed in the "Scientific Style and Format" is advocated.

#### 4. Article Types

The Archives of Rheumatology is using international standards for way of reporting research to the scholarly journals. The EQUATOR (Enhancing the QUAlity and Transparency Of health Research) Network is "an international initiative that seeks to improve the reliability and value of published health research literature by promoting transparent and accurate reporting and wider use of robust reporting guidelines." The Archives of Rheumatology advises authors to visit the EQUATOR Network website (http://www.equator-network.org/) to find guidelines for all study types. The Archives of Rheumatology encourages the use of CONSORT checklist for randomized trials, STROBE checklist for observational studies and STARD checklists for diagnostic/prognostic studies.

Arch Rheumatol v

Only the following types of articles are accepted. Case reports are no longer accepted for publication. The Archives of Rheumatology may publish case reports in letters to the editor format which should provide novel insight.

#### **Original Research Articles**

Scientific research articles should include the following sections: title page, abstract, keywords, main text (introduction, materials, and methods, results, discussion), acknowledgments and references. Articles should not exceed 5000 words and 50 references.

#### Systematic Reviews and Meta-Analyses

Review articles should include a title, abstract, keywords, main topics, and references. It should not exceed 5000 words and more than 150 references. The use of PRISMA checklist for all systematic reviews and meta-analyses is advised.

#### Narrative Reviews

The Archives of Rheumatology only accepts narrative reviews with invitation.

#### Letters to the Editor

The Archives of Rheumatology can publish a letter to the editor in the following items:

- Comment on a published article in the journal
- · Research reports
- · Case reports
- · Case series
- Adverse reaction to a drug

A letter must not exceed 500 words in length. The letters should not have abstracts. Letters that do not meet these specifications will be unpublished. Letters will be published on a space-available basis. The editor might also choose to invite a response from the authors of the original paper.

When an author wants to write a comment letter on a published article

- Do not use an impolite, and judgmental attitude
- · Make specific rather than general comments
- The comments should be based on scientific evidence
- Do not repeat topics which were studied in the original article
- Approach the subject matter from a different perspective
- · Present additional data

#### **Images**

Images are a brief clinical report describing a unique image. All images must have patient consent, and the author declaration form must be sent with your submission.

An abstract is not required in images. Maximum 3 figures can be submitted. Each figure should have a brief legend

and the written material can be a commentary on the image, not all the details of the clinical observation and should not exceed 250 words. There may be a maximum of 5 references.

#### 5. Title Page

The title page and cover letter are generated automatically during the online submission process. There is no need to prepare and upload them separately. In addition to the title, a running title of the manuscript (not more than 40 characters including spaces) should be entered.

#### 6. Abstract

Original articles should have a structured abstract including the following subheads: Objective, Materials and Methods, Results and Conclusions. For letter to the editor and visual vignettes, the structured abstract is not used. Limit the abstract to 300 words. The abstract must be added to the beginning of the manuscript file. Abbreviations should be avoided. References, tables, and citations should not be used in an abstract.

#### 7. Keywords

Authors must include relevant keywords (2-5) on the line after the end of the abstract. Use appropriate subject headings as listed in www.nlm.nih.gov/mesh/MBrowser.html.

#### 8. Conflict of Interest

In the section for the cover letter, authors should state that there is no conflict of interest associated with the manuscript. This statement must also be added at the end of the manuscript body, before funding information and the contribution statement. In a case of a conflict of interest for any of the authors, please provide disclosure of interest by giving a detailed explanation.

#### 9. Funding Disclosure

Any sources of funding must be declared after conflicts of interests. The authors who have not received any funding must state 'No funding received.'

#### 10. Contributions

Author contributions must be added to the end of the manuscript, after funding information. The authors' role must be stated clearly.

#### 11. Acknowledgments

Contributors who do not meet all the four criteria for authorship, but helped in the study, may be listed in the acknowledgment section. These may be named, and their function or contribution should be described - for example, "scientific advisor critical review of study proposal", "data collection," or "participation clinical trial." Such persons must have given their permission to be named. Authors are responsible for obtaining written permission from the person acknowledged by name, because readers may infer their endorsement of the data and conclusions. Technical help should be recognized in a paragraph separate from those acknowledging other contributions.

vi Arch Rheumatol

#### 12. References

Unpublished observations and submitted manuscripts should not be given in the references section. They must be cited in the text as "name(s), unpublished data, 19..."

Number references in the order in which they are mentioned in the text; do not alphabetize. In the text, the author's citations must be followed by a reference number in parenthesis. At the end of the book, identify references with Arabic numerals in the text and abbreviate the names of journals by the Index Medicus (www.nlm.nih.gov/tsd/serials/lji.html). In reference, the names of all authors should be stated if less than six. Otherwise, after six names, it should be followed by "et al." Examples related to correct use of references are given below.

#### Standard Journal Article

Russell IJ, Orr MD, Littman B, Vipraio GA, Alboukrek D, Michalek JE, et al. Elevated cerebrospinal fluid levels of substance P in patients with the fibromyalgia syndrome. Arthritis Rheum 1994;37:1593-601.

#### Book

Guttman L. Spinal cord injuries: comprehensive management and research. 2nd ed. London: Blackwell Scientific Publications; 1976. p. 353-4.

#### **Chapter in Book**

Zvaifler NJ. Antimalarials. In: McCarty DJ, editor. Arthritis and allied conditions. 10th ed. Philadelphia: Lea and Febiger; 1985. p. 497-501.

#### **Proceedings**

Bengtsson S, Solheim BG. Enforcement of data protection, privacy, and security in medical informatics. In: Lun KC, Degoulet P, Piemme TE, Reinhoff O, editors. MEDINFO 92. Proceedings of the 7th World Congress on Medical Informatics; September 6-10, 1992; Geneva, Switzerland. North-Holland; 1992. p. 1561-5.

#### **Electronic Journal**

Morse SS. Factors in the emergence of infectious disease. Emerg Infect Dis [serial online] 1995 1(1):[24 screens]. Available from: http://www/cdc/gov/ncidoc/EID/eid.htm.

#### 13. Tables, Figures, and Illustrations

Tables, graphs, figures, and illustrations should not be placed in the main text. Separate files should be prepared for tables (each table on a separate page), graphs, figures, and illustrations. Please supply the electronic files for all figures and illustrations including photographs as gif or jpg images with a minimum resolution of 300 dpi.

Each table and figure should have a clear title and be numbered in order of their citation in the text. Arabic numbers should be preferred for tables, graphs, figures, and photographs. Also, each legend should describe clearly what the illustration shows and what each abbreviation means. Tables should not repeat the data of the text. In the case of the use of a previously published table, figure or illustration, written permission from the publisher should be submitted

with the manuscript. Identifying information including names, initials, hospital numbers and pedigrees should not be written. Information or illustrations must not permit the identification of patients, and written informed consent for publication must be sought for any photograph.

#### 14. Copyright

Turkish League Against Rheumatism. All rights reserved. The Archives of Rheumatology is published using the open access model. All content is available free of charge without restrictions from the journal's website at www.archivesofrheumatology.org.

#### 15. Plagiarism Detection

The Archives of Rheumatology employs a plagiarism detection program. By submitting your manuscript to the Archives of Rheumatology, you accept that your manuscript may be screened for plagiarism against previously published works.

#### 16. Material Disclaimer

Scientific and legal responsibilities pertaining to the papers belong to the authors. The Contents of the manuscripts and accuracy of references along with the copyright authority of the figures and tables are also the author's responsibility. Neither The Turkish League Against Rheumatism, the Editor, the Editorial Board nor the publisher accepts any responsibility for the articles.

#### 17. Subscription

The Archives of Rheumatology is freely delivered to all physicians in the Rheumatology and Physical Medicine and Rehabilitation fields. For subscription, please contact the Turkish League Against Rheumatism. It is online at www. archivesofrheumatology.org. Tables of contents, abstracts and full texts of all articles published since 2000 are free to all readers.

**Address:** Beştepe Mah., Yaşam Cad., No: 13 A, Neorama Plaza, K: 6, D: 26, Söğütözü, Ankara, Turkey.

Phone: +90 312 204 43 51 Fax: +90 312 562 13 22

Web address: http://www.archivesofrheumatology.org

#### **Permission Requests**

Permission requests to reproduce copies of articles for non-commercial use may be obtained from the Editorial Office.

#### **Editorial contact:**

Özge Keniş-Coşkun, MD E-mail: ozgekenis@gmail.com İlker Yağcı, MD, Professor E-mail: drilkery@gmail.com

#### **Technical contact:**

Çiğdem Eratak

Yazılım Parkı Bilişim Teknolojileri D.O.R.P. Ltd. Şti.

E-mail: ceratak@yazilimparki.com.tr Web Address: www.yazilimparki.com.tr