

ARCHIVES OF

RHEUMATOLOGY



Volume: 40 Issue: 1 March 2025



ARCHIVES OF RHEUMATOLOGY

Official Journal of the Turkish League Against Rheumatism

Volume 40 • Number 1 • March 2020

Owner President and Responsible Manager

Şebnem Ataman, *Türkiye*

Editor-in-Chief

Meltem Alkan Melikoğlu, *Türkiye*

Editorial Advisor

İlker Yağcı, *Türkiye*

Associate Editors

Abdulvahap Kahveci, *Türkiye*
Amra Adrovic Yıldız, *Türkiye*
Eduardo Collantes-Esteves, *Spain*
Esra Giray, *Türkiye*
Fatma Gül Yurdakul, *Türkiye*
Hilal Ecesoy, *Türkiye*

İsmihan Sunar, *Türkiye*
Kıvanç Cengiz, *Türkiye*
Özgür Akgül, *Türkiye*
Özgür Kasapçopur, *Türkiye*
Tatjana Zekic, *Croatia*
Zafer Günendi, *Türkiye*

Past Editors

Tansu Arasil, *Türkiye*
Hami Koçaş, *Türkiye*
Peyman Yalçın, *Türkiye*

F. Deniz Evcik, *Türkiye*
Levent Özçakar, *Türkiye*
İlker Yağcı, *Türkiye*

Biostatistical Consultants

Beyhan Cengiz Özyurt, *Türkiye*
Erhan Eser, *Türkiye*

Editorial Board

Atul DEODHAR, *USA*
Durga Prasanna MISRA, *India*
Carlos Enrique Toro GUTIERREZ, *Colombia*
Erhan CAPKIN, *Türkiye*
Johannes NOSSENT, *Australia*
Mitsuhiro TAKENO, *Japan*
Hatice BODUR, *Türkiye*
Kemal NAS, *Türkiye*
Murat BİRTANE, *Türkiye*
Tsvetelina VELIKOVA, *Bulgaria*
Fikriye Figen AYHAN, *Türkiye*
Sami HIZMETLI, *Türkiye*
Doruk ERKAN, *USA*
Tuncay DURUÖZ, *Türkiye*

Sekib SOKOLOVIC, *Bosnia and Herzegovina*
Marko BAREŠIC, *Croatia*
Fatos ONEN, *Türkiye*
Seong-Kyu KIM, *South Korea*
Banu KURAN, *Türkiye*
Zeynep Birsin OZCAKAR, *Türkiye*
Sakir AHMED, *India*
Gülseren AKYUZ, *Türkiye*
Maxime BREBAN, *France*
Ulf MULDER-LADNER, *Germany*
Branimir ANIC, *Croatia*
Ali-Reza KHABAZZI, *Iran*
Fernando CAVALCANTI, *Brazil*
Franco FRANCHIGNONI, *Italy*

Jens Gert KUIPERS, *Germany*
Marco Matucci CERINIC, *Italy*
Kassim JAVAID, *UK*
Laszlo CZIRJAK, *Hungary*
Mohamed KAMEL, *USA*
Peter KORNAAT, *Netherlands*
Robert LAHITA, *USA*
Stefano BOMBARDIERI, *Italy*
Steffen GAY, *Switzerland*
Tamas BENDER, *Hungary*
Tamer A. GHEITA, *Egypt*
Tuulikki SOKKA, *Finland*
Emine Berrin YÜKSEL, *Türkiye*

ARCHIVES OF RHEUMATOLOGY

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

Şebnem Ataman, Ankara, Türkiye

Responsible Manager

Sorumlu Yazı İşleri Müdürü

Şebnem Ataman, Ankara, Türkiye

Archives of Rheumatology is indexed in Science Citation Index Expanded, PubMed Central, Embase, Scopus, Cinahl, Index Copernicus, Gale/Cengage Learning, EBSCO, 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 Rheumatism (TLAR). Material published in the Journal is covered by copyright ©2025 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, Türkiye.
Tel/Fax: +90 312 562 13 22
URL: <http://www.archivesofrheumatology.org>

Editorial Contact Person / İletişim:

Meltem Alkan Melikoğlu, MD.
E-mail: mamelikoglu@gmail.com

Publisher / Yayıncı:

Bayınar Tıbbi Yayıncılık ve Reklam Hiz. Tic. Ltd. Şti.
Örnek Mah., Dr. Suphi Ezgi Sok., Saray Apt., No: 11, D: 6,
34704 Ataşehir, İstanbul, Türkiye
Tel: +90 216 317 41 14

e-mail / e-posta: info@baycinartibbiyayincilik.com
Web: www.baycinartibbiyayincilik.com
Yayıncı Sertifika No: 52284

Type of publication / Yayın türü:

Periodical / Yırel Süreli
March 19, 2025 / 19 Mart 2025

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 Bayınar Medical Publishing.

CONTENTS

ORIGINAL ARTICLES

Predicting extra-musculoskeletal and peripheral manifestations and their role on biologic treatment in patients with axial spondyloarthritis: Treasure experience Elif Durak Ediboglu, Umut Kalyoncu, Dilek Solmaz, Sule Yasar Bilge, Sedat Yılmaz, Cemal Bes, Abdulsamet Erden, Burcu Yagız, Zehra Özsoy, Belkis Nihan Coskun, Rıdvan Mercan, Sedat Kiraz, Emel Gönüllü, Veli Yazısız, Nilufer Alpay Kanitez, Askin Ateş, Recep Yılmaz, Hakan Emmungil, Gezmiş Kimyon, Emine Duygu Ersözlü, Süleyman Serdar Koca, İhsan Ertenli, Servet Akar	1
Association between frailty and oral function in rheumatoid arthritis patients: A multi-center, observational study Yasumori Sobue, Mochihito Suzuki, Yoshifumi Ohashi, Ryo Sato, Yusuke Ohno, Junya Hasegawa, Takaya Sugiura, Kenya Terabe, Shuji Asai, Shiro Imagama	15
Mini-enthesitis can differentiate rheumatoid arthritis from psoriatic arthritis: A comprehensive comparative ultrasound study of the joints and mini-entheses of the hands Tanya Sapundzhieva, Lyubomir Sapundzhiev, Anastas Batalov	28
Temporomandibular joint disorder in rheumatoid arthritis: A cross-sectional ultrasonographic study Elif Becenen Durmuş, Fatma Gül Yurdakul, Tuba Güler, Hatice Bodur	42
Disease activity and changes in the fibrosis-4 index in patients with rheumatoid arthritis treated with methotrexate for a short period Noriyuki Namura, Kazuya Kamada, Takahumi Hagiwara, Kanae Takahashi, Kiyoshi Matsui	53
Artificial intelligence-generated responses to frequently asked questions on coccydynia: Evaluating the accuracy and consistency of GPT-4o's performance Aslinur Keles, Ozge Gulsum Illeez, Berkay Erbagci, Esra Giray	63
Lung involvement is a risk factor for treatment resistance in patients with polymyositis and dermatomyositis Elif Altunel Kılınç, Bengisu Ece Duman, Süleyman Özbek	72
Investigation of methylation status of interleukin-16 and autoimmune regulator gene promoter regions in Behçet's disease Melih Akpunar, Demet Yalcin Kehribar, Serkan Günaydin, Hilal Koyuncu, Zülfinaz Betül Celik, Metin Özgen	80
Prevalence of central sensitization and neuropathic pain in patients with psoriatic arthritis: A cross-sectional study Gülşay Alp, İdil Kurut Aysin, Haluk Cinakli, Dilek Solmaz, Servet Akar	87
Is there an anti-inflammatory effect of aerobic exercises on axial spondyloarthropathy patients? A prospective, randomized-controlled trial Yeşim Özge Gündüz Gül, Ajda Bal, Ümmü Gül Erdem	98
Evaluation of adipokines, oxidative stress, and inflammatory markers in gout patients Fatma Ozer, Fatih Baygatalp, Muhammet Celik, Nurcan Kılıç Baygatalp	112

LETTER TO THE EDITORS

Isotretinoin use should be examined in young individuals with inflammatory spinal pain, sacroiliitis or hyperostosis Salih Özgöçmen	123
A case of eosinophilic granulomatosis with polyangiitis with human immunodeficiency virus as the underlying etiology Bulent Kaya, Nesrin Şen	125

REVIEWS

Hyperuricemia and the risk of stroke incidence and mortality: A systematic review and meta-analysis Haiyan Jiang, Yunyi Su, Ruixue Liu, Xinyi Xu, Qi Xu, Jie Yang, Yapeng Lin	128
Immune response and cytokine pathways in psoriatic arthritis: A systematic review Gamze Dilek, Mehtap Kalcık Unan, Kemal Nas	144