

ARCHIVES OF

RHEUMATOLOGY



Volume: 37 Issue: 2 June 2022

ARCHIVES OF RHEUMATOLOGY

Official Journal of the Turkish League Against Rheumatism

Volume 37 • Number 2 • June 2022

Owner President and Responsible Manager

Şebnem ATAMAN, Türkiye

Editor-in-Chief

İlker YAĞCI, Türkiye

Editorial Advisor

Armen Yuri GASPARYAN, United Kingdom

Associate Editors

Özgür AKGÜL, Türkiye
Meltem ALKAN MELİKOĞLU, Türkiye
F. Figen AYHAN, Türkiye
İlke COŞKUN BENLİDAYI, Türkiye

Esra GİRAY, Türkiye
Zafer GÜNENDİ, Türkiye
Özgür KASAPÇOPUR, Türkiye
Mehmet Engin TEZCAN, Türkiye

Özge KENİŞ COŞKUN, Türkiye
Sibel ÜNSAL DELİALİOĞLU, Türkiye
Olena ZIMBA, Ukraine

Past Editors

Tansu ARASIL, Türkiye
Hami KOÇAŞ, Türkiye
Peyman YALÇIN, Türkiye

F. Deniz EVCİK, Türkiye
Levent ÖZÇAKAR, Türkiye

Biostatistical Consultants

Erhan ESER, Türkiye
Beyhan Cengiz ÖZYURT, Türkiye

Editorial Board

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

Hatice BODUR, Türkiye
Hatice UĞURLU, Türkiye
İlknur AKTAŞ, Türkiye
Jens Gert KUIPERS, Germany
Kassim JAVAID, UK
Kemal NAS, Türkiye
Laszlo CZIRJAK, Hungary
Maxime BREBAN, France
Mehmet Engin TEZCAN, Türkiye
Mohamed KAMEL, USA
Murat BİRTANE, Türkiye
Nevsun İNANÇ, Türkiye
Peter KORNAAT, Netherlands
Robert LAHITA, USA

Roy ALTMAN, USA
Sami HİZMETLİ, Türkiye
Stefano BOMBARDIERI, Italy
Steffen GAY, Switzerland
Tamas BENDER, Hungary
Tamer A. GHEITA, Egypt
Tatjana ZEKIĆ, Croatia
Tuncay DURUÖZ, Türkiye
Tuulikki SOKKA, Finland
Ulf MÜLER-LADNER, Germany
Umut KALYONCU, Türkiye
Zeynep Birsin ÖZÇAKAR, 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 ©2021 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:

İlker Yağcı, M.D.
e-mail: drilker@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 / Yerel Süreli
Publishing date / Yayın tarihi:
May 18, 2022 / 18 Mayıs 2022

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

The comparison of effects of balneotherapy, water-based and land-based exercises on disease activity, symptoms, sleep quality, quality of life and serum sclerostin level in patients with ankylosing spondylitis: A prospective, randomized study Ersin Bestaş, Ümit Dündar, Tülay Köken, Buğra Koca, Hilal Yeşil	159
Measuring the impact of an educational intervention in rheumatoid arthritis: An open-label, randomized trial Laëtitia Michou, Anne-Sophie Julien, Holly O. Witteman, Jean Légaré, Lucie Ratelle, Alexandra Godbout, Johanne Tardif, Suzanne Côté, Geneviève Boily, Rebecca Lui, Alena Ikic, Judith Trudeau, Jean-Luc Tremblay, Isabelle Fortin, Louis Bessette, Anne-Laure Chetaille, Paul R Fortin	169
Coronaphobia in patients with fibromyalgia Sevinç Külekçioglu, Merve Akyüz, Özenç İnan, Alp Çetin	180
Serum and synovial fluid levels of interleukin-17a in primary knee osteoarthritis patients: Correlations with functional status, pain, and disease severity Shereen Kamel, Rehab Khalaf, Hend Moness, Shima Ahmed	187
Therapeutic effects of tofacitinib on pristane-induced murine lupus Jiayi Lin, Yaqin Zhang, Meihua Wang, Yang Zhang, Pin Li, Yingping Cao, Xuwei Yang	195
Clinical and laboratory characteristics of chronic spontaneous urticaria with connective tissue diseases: A cross-sectional study Songül Çildağ, Gökhan Sargın, Taşkın Şentürk	205
Antioxidant glutathione inhibits inflammation in synovial fibroblasts via PTEN/PI3K/AKT pathway: An <i>in vitro</i> study Wen Ting Hao, Lu Huang, Wei Pan, Yi Le Ren	212
Evaluation of musculoskeletal adverse effects in patients on systemic isotretinoin treatment: A cross-sectional study Emine Müge Acar, Senem Şaş, Fatmanur Aybala Koçak	223
Is COVID-19 multisystem inflammatory syndrome a new variant of Kawasaki Disease? Khawla Abu Hammour, Rana Abu Farha, Qusai Manaseer, Tasnim Dawoud, Walid Abu Hammour	230
The role of albumin-to-globulin ratio in undifferentiated arthritis: Rheumatoid arthritis versus primary Sjögren syndrome Reyhan Köse Çobanoğlu, Taşkın Şentürk	245
Thrombocytopenia in a cohort of primary and secondary antiphospholipid syndrome patients: Relation to clinical, laboratory manifestations and damage index Sherif Gamal, Samar Mohamed, Abdelkawy Moghazy	252
Serum lysyl oxidase concentration increases in long-standing systemic sclerosis: Can lysyl oxidase change over time? Mohammad Hassan Jokar, Simin Jafaripour, Nafiseh Abdollahi, Maryam Nazemipour, Maliheh Moradzadeh, Mohammad Ali Mansournia	261
Association between clinical characteristics and pain relief in patients with axial spondyloarthritis treated with non-steroidal anti-inflammatory drugs Shiyi Deng, Yi He, Sisi Deng, Erwei Sun, Li Li	271
Disease characteristics in patients with juvenile- and adult-onset systemic lupus erythematosus: A multi-center comparative study Sherif M Gamal, Nermeen Fouad, Nora Yosry, Wael Badr, Nesreen Sobhy	280
Impact of vitamin D level and supplementation on systemic lupus erythematosus patients during COVID-19 pandemic Yasmin Adel, Mohamed Elgamel, Sherehan Adel Abdelsalam	288
Vasculitis induced by biological agents used in rheumatology practice: A systematic review Camila da Silva Cendon Duran, Adriane Souza da Paz, Mittermayer Barreto Santiago	300

LETTER TO THE EDITORS

Fibrillarin antibodies in systemic sclerosis Adrian Lee	311
A case of lupus erythematosus profundus with severe ulceration that responded to tumor necrosis factor-alpha--blocking agents Daiki Nakagomi	313