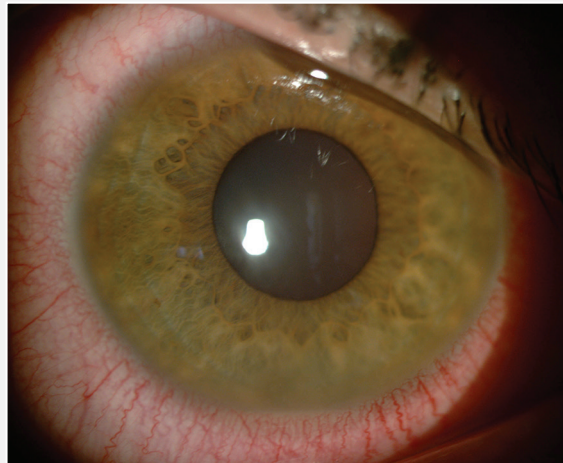


ARCHIVES OF

# RHEUMATOLOGY



Volume: 35 Issue: 1 March 2020

# ARCHIVES OF RHEUMATOLOGY

Official Journal of the Turkish League Against Rheumatism

Volume 35 • Number 1 • March 2020

**Owner President and Responsible Manager**

Şebnem ATAMAN, 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 BODUR, 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  
Özgür KASAPÇOPUR, Turkey  
Peter KORNAAT, Netherlands  
Robert LAHITA, USA

Roy ALTMAN, USA  
Sami HİZMETLİ, Turkey  
Stefano BOMBARDIERI, Italy  
Steffen GAY, Switzerland  
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**

Şebnem ATAMAN, Ankara, Turkey

**Responsible Manager**  
**Sorumlu Yazı İşleri Müdürü**

Şebnem ATAMAN, 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 Rheumatism (TLAR). Material published in the Journal is covered by copyright ©2020 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 / İletişim:**

İlker Yağcı, M.D.  
e-mail: [drilkery@gmail.com](mailto:drilkery@gmail.com)

**Publisher / Yayıncı:**

**Baycınar Tıbbi 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](mailto:info@baycinartibbiyayincilik.com)  
Web: [www.baycinartibbiyayincilik.com](http://www.baycinartibbiyayincilik.com)  
Yayıncı Sertifika No: 17557

**Type of publication / Yayın türü:**

Periodical / Yıllık 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](http://www.egebasim.com.tr) Matbaa Sertifika No: 45604  
Press date / Basım tarihi:  
March 10, 2020 / 10 Mart 2020  
Circulation / Baskı adedi: 200



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 Baycınar Medical Publishing.

## CONTENTS

<i>Instructions for Authors</i> . . . . .	iv
---	----

## ORIGINAL ARTICLES

<b>Radiographic Progression in Patients With Ankylosing Spondylitis According to Uveitis Based on the Observation Study of Korean Spondyloarthropathy Registry</b> Hyunyi Kook, So-Hee Jin, Seunghun Lee, Seung-Jin Lee, Tae-Hwan Kim, Tae-Jong Kim . . . . .	1
<b>Screening for Fabry Disease in Patients With Juvenile Systemic Lupus Erythematosus</b> Ertugrul Kiykim, Sezgin Şahin, Tanyel Zubarıoğlu, Kenan Barut, Amra Adrovic, Mehmet Şerif Cansever, Ayşe Çiğdem Aktuğlu Zeybek, Özgür Kasapçopur . . . . .	7
<b>Type D Personality is Associated With Disease Severity and Poor Quality of Life in Turkish Patients With Fibromyalgia Syndrome: A Cross-Sectional Study</b> Yeşim Garip, Tuba Güler, Özgül Bozkurt Tuncer, Sinay Önen . . . . .	13
<b>Screening for Latent Tuberculosis in Children With Immune-Mediated Inflammatory Diseases Treated With Anti-Tumor Necrosis Factor Therapy: Comparison of Tuberculin Skin and T-SPOT Tuberculosis Tests</b> Saniye Girit, Ayşe Ayzıt Atabek, Ebru Şenol, Tuba Koçkar Kızılırmak, Sevgi Pekcan, Şafak Gökteş, Sedat Öktem, Özgür Kasapçopur, Haluk Çokuğraş . . . . .	20
<b>Diagnostic Sensitivity of Different Applications of Pathergy Test for Behçet's Disease</b> İncilay Kalay Yıldızhan, Ayşe Boyvat . . . . .	29
<b>Effects of Single-Task Versus Dual-Task Training on Balance Performance in Elderly Patients With Knee Osteoarthritis</b> Aslıhan Uzunkulaoglu, Duygu Kerim, Saime Ay, Süreyya Ergin . . . . .	35
<b>A Retrospective, Cross-Sectional Study on the Prevalence of Hyperuricemia Using a Japanese Healthcare Database</b> Shingo Higa, Mizuki Yoshida, Daisuke Shima, Yoichi II, Shigeru Kitazaki, Yuji Yamamoto, Yoko Fujimoto . . . . .	41
<b>Assessment of Circulating Microribonucleic Acids in Patients With Familial Mediterranean Fever</b> Ferhat Demir, Alper Han Çebi, Mukaddes Kalyoncu . . . . .	52
<b>Short-term Efficacy Comparison of High-Intensity and Low-Intensity Laser Therapy in the Treatment of Lateral Epicondylitis: A Randomized Double-Blind Clinical Study</b> Ercan Kaydok, Banu Ordahan, Sezin Solum, Ali Yavuz Karahan . . . . .	60
<b>Prevalence of Juvenile Fibromyalgia Syndrome Among Children and Adolescents and its Relationship With Academic Success, Depression and Quality of Life, Çorum Province, Turkey</b> Ayla Çağlıyan Türk, Füsün Şahin . . . . .	68
<b>High-Energy Flux Density Extracorporeal Shock Wave Therapy Versus Traditional Physical Therapy Modalities in Myofascial Pain Syndrome: A Randomized-Controlled, Single-Blind Trial</b> Ömer Gezginaslan, Sevgi Gümüş Atalay . . . . .	78
<b>The Validity and Sensitivity of Rheumatoid Arthritis Pain Scale on a Different Ethnic Group From Indian Rheumatoid Arthritis Patients</b> Harpreet Singh, Sameer Arora, Vikram Tanwar, Ankit Kalra, Gagandeep Sukhija, Nikhil Govil . . . . .	90
<b>Assessment of the Clinical Effects of Aquatic-Based Exercises in the Treatment of Children With Juvenile Dermatomyositis: A 2x2 Controlled-Crossover Trial</b> Ahmed Samhan, Nermeen Mohamed, Ragab Elnaggar, Waleed Mahmoud . . . . .	97
<b>Comparison of the Therapeutic Effects of Rivaroxaban Versus Warfarin in Antiphospholipid Syndrome: A Systematic Review</b> Mandana Khodashahi, Zahra Rezaieyazdi, Maryam Sahebari . . . . .	107
<b>Blau Syndrome and Early-Onset Sarcoidosis: A Six Case Series and Review of the Literature</b> Ayşenur Paç Kisaarslan, Betül Sözeri, Nihal Şahin, Sümeysa Özdemir Çiçek, Zübeyde Gündüz, Erkan Demirkaya, Afif Berdeli, Serdal Sadet Özcan, Hakan Porazoglu, Ruhan Düşünsel . . . . .	117

## CASE REPORTS

<b>Neurovascular Behçet's Disease Presenting With Cavernous Sinus Thrombosis: A Rare Case of Assumed Tolosa-Hunt-Like Syndrome</b> Chong Hyuk Chung, Myeung Su Lee, Changhoon Lee . . . . .	128
<b>Coexistence of Juvenile Systemic Lupus Erythematosus and Juvenile Spondyloarthropathy: A Case Report and Review of the Literature</b> Ayşe Tanatar, Ummihan Topal, Şerife Gül Karadağ, Hafize Emine Sönmez, Nuray Aktay Ayaz . . . . .	132
<b>Mixed Connective Tissue Disease With Retroperitoneal Fibrosis: A Rare Occurrence</b> Aditya Dhanawat, Partisha Gupta, Prasanta Padhan . . . . .	137
<b>A Rare Cause of Hypopyon Anterior Uveitis: Relapsing Polychondritis</b> Nilüfer Zorlutuna Kaymak, Murat Oklar, Burak Tanyıldız, Mehmet Engin Tezcan, Şaban Şimşek . . . . .	142
<b>Mononeuritis Multiplex Associated With Antiphospholipid Antibodies</b> Luis Francisco Valdés Corona, Alejandro Díaz Borjón . . . . .	146

## LETTER TO THE EDITOR

<b>Additional Benefit of Canakinumab on Proteinuria in a Case With Muckle-Wells Syndrome in Remission Under Anakinra</b> Ufuk İlgen, Orhan Küçükşahin . . . . .	149
<b>Varicella Zoster and Cutaneous Candida Infection in a Patient With Ankylosing Spondylitis Under Treatment With Secukinumab</b> Ali Nail Demir, İsmail Uçar, Cahit Kaçar . . . . .	151

---

# 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](mailto:cigdemeratak@yazilimparki.com.tr) or [ozgekenis@gmail.com](mailto: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](mailto: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.

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](http://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.

## 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](http://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](http://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](http://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](mailto:ozgekenis@gmail.com)

İlker Yağcı, MD, Professor

E-mail: [drilkery@gmail.com](mailto:drilkery@gmail.com)

## Technical contact:

Çiğdem Eratak

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

E-mail: [ceratak@yazilimparki.com.tr](mailto:ceratak@yazilimparki.com.tr)

Web Address: [www.yazilimparki.com.tr](http://www.yazilimparki.com.tr)