

EISSN 2979-9139



Official Journal of
TURKISH
THORACIC SOCIETY

Thoracic

Research & Practice

Formerly Turkish Thoracic Journal



Volume 25 · Issue 4 · July 2024
thoracrespract.org



Thoracic Research & Practice

Official Journal of the Turkish Thoracic Society

EDITORS in CHIEF

Oğuz KILINÇ ^{ID}

Department of Chest Diseases, Dokuz Eylül University School of Medicine, İzmir, Türkiye

İpek Kıvılcım OĞUZÜLGEN ^{ID}

Department of Pulmonary Diseases, Gazi University School of Medicine, Ankara, Türkiye

EDITORS

Aylin ÖZGEN ALPAYDIN ^{ID}

Department of Chest Diseases, Dokuz Eylül University School of Medicine, İzmir, Türkiye

Ege GÜLEÇ BALBAY ^{ID}

Department of Chest Disease, Düzce University School of Medicine, Düzce, Türkiye

İpek ÇAYLI CANDEMİR

Ataturk Chest Diseases and Surgery Education and Research Hospital, Ankara, Türkiye

Ufuk ÇAĞIRICI ^{ID}

Department of Chest Surgery, Ege University School of Medicine, İzmir, Türkiye

Necati ÇITAK ^{ID}

Department of Thoracic Surgery, İstanbul Bakırköy Dr. Sadi Konuk Training and Research Hospital, İstanbul, Türkiye

Aslı GÖREK DİLEKTAŞLI ^{ID}

Department of Chest Diseases, Uludağ University School of Medicine, Bursa, Türkiye

Zuhal KARAKURT ^{ID}

Respiratory Intensive Care Unit, Süreyyapaşa Chest Diseases and Surgery Training and Research Hospital, İstanbul, Türkiye

Leyla PUR ÖZYİĞİT ^{ID}

Department of Allergy and Immunology, University Hospitals of Leicester, Leicester, United Kingdom

Özge YILMAZ ^{ID}

Department of Pediatrics, Celal Bayar University School of Medicine, Manisa, Türkiye

BIOSTATISTICAL CONSULTANT

Ahmet Uğur DEMİR

Department of Chest Diseases, Hacettepe University School of Medicine, Ankara, Türkiye

Seval KUL ^{ID}

Department of Biostatistics and Medical Informatics, Gaziantep University School of Medicine, Gaziantep, Türkiye

PUBLICATION COORDINATOR

Begüm ERGAN

Department of Chest Diseases, Dokuz Eylül University School of Medicine, İzmir, Türkiye



General Manager
Ali ŞAHİN

Journal Managers
Deniz KAYA
İrmak BERBEROĞLU

Publications Coordinators
Alara ERGİN
Derya AZER
Nisanur ATICI
Şeref Mert GÜCÜN
Yiğit PEKZEREN

Project Assistant
Batuhan KARA

Publishing Service: AVES
Address: Büyükdere Cad.
199/6, 34394, Şişli, İstanbul,
Türkiye
Phone: +90 212 217 17 00
Fax: +90 212 217 22 92
E-mail: info@avesyayincilik.com

Editors in Chief:
Oğuz KILINÇ
İpek Kıvılcım OĞUZÜLGEN
Address: Turan Güneş Bulvarı, Koyunlu
Sitesi No: 175/19 Oran, Ankara, Türkiye
Phone: +90 (312) 490 40 50
Fax: +90 (312) 490 41 42
E-mail: editorial.office@turkthoracj.org



Thoracic Research & Practice

Official Journal of the Turkish Thoracic Society

EDITORIAL BOARD

Ian M. Adcock

Cell and Molecular Biology Airways Disease Section, National Heart and Lung Institute, Imperial College London, United Kingdom

Piergiuseppe Agostoni

Department of Clinical Sciences and Community Health, Cardiovascular Section, Università di Milano, Milano, Italy

M. Selim Arcasoy

Pulmonary, Allergy, and Critical Care Division, Department of Medicine, Columbia University New York, USA

Philippe Astoul

Thoracic Oncology - Pleural Diseases - Interventional Pulmonology, Hôpital Nord - Chemin des Bourrely, Marseille, France

Ülkü Bayındır

Retired Faculty Member, Ege University School of Medicine, İzmir, Türkiye

Dominique MA Bullens

Department of Immunology and Microbiology, KU Leuven Laboratory of Pediatric Immunology Division of Pediatrics, Leuven, Belgium

Richard Casaburi

Rehabilitation Clinical Trials Center, Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center, Torrance, California, USA

Turgay Çelikel

Department of Chest Diseases, Marmara University School of Medicine, İstanbul, Türkiye

Tansu Ulukavak Çiftçi

Department of Chest Diseases, Gazi University School of Medicine, Ankara, Türkiye

Lütfi Çöplü

Department of Chest Diseases, Hacettepe University School of Medicine, Ankara, Türkiye

Çağlar Çuhadaroglu

Acibadem Maslak Hospital, İstanbul, Türkiye

Antonio M. Esquinas

International Fellow AARC, Fellow NIV, Intensive Care Unit, Hospital Morales Meseguer, Murcia, Spain

Andrew J. Ghio

US Environmental Protection Agency Chapel Hill, North Carolina, USA

James E. Hansen

St. John's Cardiovascular Research Center, Los Angeles Biomedical Research Institute at Harbor- University of California at Los Angeles, Torrance, CA, USA

İlhan İnci

University Hospital Zurich, Department of Thoracic Surgery, Zurich, Switzerland

Oya İtil

Department of Chest Diseases, Dokuz Eylül University School of Medicine, İzmir, Türkiye

A. Fuat Kalyoncu

Department of Chest Diseases, Hacettepe University School of Medicine, Ankara, Türkiye

Fazilet Karakoç

Department of Child Chest Diseases, Marmara University Pendik Training and Research Hospital, İstanbul, Türkiye

Ali Kocabaş

Department of Chest Diseases, Çukurova University School of Medicine, Adana, Türkiye

Emel Kurt

Department of Chest Diseases, Osmangazi University School of Medicine, Eskişehir, Türkiye

Atul Malhotra

Pulmonary and Critical Care, University of California San Diego, La Jolla, California, USA

Muzaffer Metintaş

Department of Chest Diseases, Osmangazi University School of Medicine, Eskişehir, Türkiye



Thoracic Research & Practice

Official Journal of the Turkish Thoracic Society

Zeynep Mısırlıgil

Department of Chest Diseases, Ankara
University School of Medicine, Ankara,
Türkiye

Nesrin Moğulkoç

Department of Chest Diseases, Ege University
School of Medicine, İzmir, Türkiye

Dilşad Mungan

Department of Chest Diseases, Ankara
University School of Medicine, Ankara,
Türkiye

Gökhan M. Mutlu

Division of Pediatric Critical Care Medicine,
Northwestern University, Chicago, USA

Gül Öngen

Department of Chest Surgery, İstanbul University
Cerrahpaşa School of Medicine, İstanbul,
Türkiye

Kent E. Pinkerton

University of California, Davis, Center for
Health and the Environment, Davis, USA

Kannan Ramar

Division of Pulmonary and Critical Care
Medicine, Center for Sleep Medicine,
Mayo Clinic, Rochester, MN, USA

Joseph Roca

Instituto de Biología Molecular de Barcelona,
CSIC, Baldri Reixac, Barcelona, Spain

Israel Rubinstein

Section of Pulmonary, Critical Care, Sleep and
Allergy Medicine, Department of Medicine,
College of Medicine, University of Illinois at
Chicago, Chicago, Illinois, USA

Abdullah Sayiner

Department of Chest Diseases, Ege University
School of Medicine, İzmir, Türkiye

Z. Toros Selçuk

Department of Chest Diseases, Hacettepe
University School of Medicine, Ankara, Türkiye

Nadja Triller

Department of Pulmonary Medicine, University
Pulmonary Clinic Golnik, Golnik, Slovenia

Haluk Türktaş

Department of Chest Diseases, Gazi University
School of Medicine, Ankara, Türkiye

E. Sabri Uçan

Department of Chest Diseases, Dokuz Eylül
University School of Medicine, İzmir, Türkiye

Karlman Wasserman

Respiratory and Critical Care Physiology and
Medicine, Los Angeles Biomedical Research
Institute Harbor-UCLA Medical Center, Torrance,
California, USA

Mark Woodhead

Honorary Clinical Professor of Respiratory
Medicine, Department of Respiratory Medicine,
Manchester Royal Infirmary, Manchester,
England



Thoracic Research & Practice

Official Journal of the Turkish Thoracic Society

ABOUT

About the Thoracic Research and Practice

Thoracic Research and Practice is a peer reviewed, open access, online-only journal published by the Turkish Thoracic Society.

Thoracic Research and Practice is a bimonthly journal that is published in English in January, March, May, July, September, and November.

Journal History

Thoracic Research and Practice started its publication life following the merger of two journals which were published under the titles "Turkish Respiratory Journal" and "Toraks Journal" until 2008. From 2008 to 2022, the journal was published under the title "Turkish Thoracic Journal". Archives of the journals were transferred to Thoracic Research and Practice.

Abstracting and indexing

Thoracic Research and Practice is covered in the following abstracting and indexing databases; PubMed Central, Web of Science - Emerging Sources Citation Index, Scopus, EMBASE, EBSCO, CINAHL, Gale/Cengage Learning, ProQuest, DOAJ, CNKI, TUBITAK ULAKBIM TR Index.

Aims, Scope, and Audience

Thoracic Research and Practice aims to publish studies of the highest scientific and clinical value, and encourages the submission of high-quality research that advances the understanding and treatment of pulmonary diseases.

Thoracic Research and Practice covers a wide range of topics related to adult and pediatric pulmonary diseases, as well as thoracic imaging, environmental and occupational disorders, intensive care, sleep disorders and thoracic surgery, including diagnostic methods, treatment techniques, and prevention strategies. The journal is interested in publishing original research that addresses important clinical questions and advances the understanding and treatment of these conditions. This may include studies on the effectiveness of different treatments, new diagnostic tools or techniques, and novel approaches to preventing or managing pulmonary diseases.

Thoracic Research and Practice publishes clinical and basic research articles, reviews, statements of agreement or disagreement on controversial issues, national and international consensus reports, systematic reviews and meta-analyses, letters to the editor and editorials. Conference proceedings may also be considered for publication.

The target audience of the journal includes healthcare professionals and researchers who are interested in or working in the pulmonary diseases field, and related disciplines.

Open Access Policy

Thoracic Research and Practice is an open access publication.

Starting on January 2022 issue, all content published in the journal is licensed under the Creative Commons Attribution-NonCommercial (CC BY-NC) 4.0 International License which allows third parties to use the content for non-commercial purposes as long as they give credit to the original work. This license allows for the content to be shared and adapted for non-commercial purposes, promoting the dissemination and use of the research published in the journal.

The content published before January 2022 was licensed under a traditional copyright, but the archive is still available for free access.

All published content is available online, free of charge at thoracrespract.org.

When using previously published content, including figures, tables, or any other material in both print and electronic formats, authors must obtain permission from the copyright holder. Legal, financial and criminal liabilities in this regard belong to the author(s).

Copyright Policy

A Copyright Agreement and Acknowledgement of Authorship form should be submitted with all manuscripts. By signing this form, authors transfer the copyright of their work to the Turkish Thoracic Society and agree that the article,



Thoracic Research & Practice

Official Journal of the Turkish Thoracic Society

if accepted for publication by the Thoracic Research and Practice will be licensed under a Creative Commons Attribution-Non Commercial 4.0 International License (CC BY-NC 4.0) which permits third parties to share and adapt the content for non-commercial purposes by giving the appropriate credit to the original work.

When using previously published content, including figures, tables, or any other material in both print and electronic formats, authors must obtain permission from the copyright holder. Legal, financial and criminal liabilities in this regard belong to the author(s).

Authors retain the copyright of their published work in the Thoracic Research and Practice.

Publication Fee Policy

Thoracic Research and Practice is funded by the the Turkish Thoracic Society. Authors are not required to pay any fees during the evaluation and publication process.

You can find the current version of the Instructions to Authors at <https://turkthoracj.org/en/instructions-to-authors-1013>.



Thoracic Research & Practice

Official Journal of the Turkish Thoracic Society

CONTENTS

ORIGINAL ARTICLES

- 136** Work-Related Symptoms of Spice Shop Workers and the Effect of Common Aeroallergen Sensitivity on Work-Related Symptoms
Ömür Güngör, Nazan Akel, Ceyda Şahan, Ahmet Uğur Demir, Ali Fuat Kalyoncu
- 141** Population-Based Analysis of Local Therapies for Large (>7 cm) Non-Small Cell Lung Cancer Tumors
Deven C. Patel, Hao He, Douglas Z. Liou, Paul J. Speicher, Mark F. Berry
- 149** Impact of Anxiety, Depression, and Coping Strategies on Health-Related Quality of Life in Patients with Cystic Fibrosis
Berrin Ceyhan, Zeynep Uslu Suner, Derya Kocakaya, Şehnaz Olgun Yıldızeli, Emel Eryüksel
- 158** Relative Value of Immunohistochemistry in Detection of Mycobacterial Antigen in Suspected Cases of Tuberculosis in Tissue Section
Musi Ravindra Mohan, Kothur Narayana-Reddy Sukumar, Anjaneya Amith
- 162** Evaluation of Long-Coronavirus Disease 2019 Cases Readmitted to Intensive Care Units Due to Acute Respiratory Failure: Point Prevalence Study
Eylem Tunçay, Özlem Moçin, Özlem Ediboğlu, Nalan Adıgüzel, Sinem Güngör, İnşa İşcanlı, Berrin Er, Nilgün Alptekinoğlu Mendil, Adnan Usalan, Didem Yılmaz, Hülya Keskin, Gül Erdal Dönmez, Barış Yılmaz, Feyza Kargin, Kemal Tolga Saraçoğlu, Şahin Temel, Hayriye Cankar Dal, Sema Turan, Leyla Talan, Derya Hoşgün, Semih Aydemir, Hülya Sungurtekin

RESEARCH LETTER

- 168** Comparison of 2005 and 2021 American Thoracic Society/European Respiratory Society Criteria for Bronchodilator Response
Kohei Okawa, Toshihiro Shirai, Taisuke Akamatsu, Keita Hirai