

# EURASIAN JOURNAL OF PULMONOLOGY

EURASIAN J PULMONOL

Volume 25 Issue 3 September-December 2023

## Review

Pulmonary fibrosis as a sequela of COVID-19 infection: What do we know?

## Original Articles

Positron emission tomography/computed tomography (PET/CT) findings in lung nodules and masses: A single-center experience

The contribution of neutrophil-lymphocyte ratio on prognosis in patients diagnosed with epidermal growth factor receptor mutant lung adenocarcinoma

Factors associated with mortality in cases of idiopathic pulmonary fibrosis with mild to moderate functional impairment

Factors affecting the optimal CPAP pressure level and a new prediction formula in patients with obstructive sleep apnea syndrome

The role of the systemic inflammatory index in determining the need for intensive care in COVID-19 pneumonia

### Editor-in-Chief

Filiz Koşar, MD, Prof.

Department of Pulmonary Diseases, University of Health Sciences, Yedikule Chest Diseases and Chest Surgery Training and Research Hospital, Istanbul, Türkiye.

E-mail: filizkosar@gmail.com

Deniz Köksal, MD, Prof.

Department of Pulmonary Diseases, Hacettepe University Faculty of Medicine, Ankara, Türkiye. E-mail: dckoksal@gmail.com

### Associate Editors

Evrime Eylem Akpınar, MD, Prof.

Department of Pulmonary Diseases, Ufuk University Dr. Ridvan Ege Hospital, Ankara, Türkiye

drevrimeylem@gmail.com

Section: Diffuse parenchymal lung diseases

Ülkü Aka Aktürk, MD, Assoc. Prof.

Department of Pulmonary Diseases, University of Health Sciences, Süreyyapaşa Chest Diseases and Thoracic Surgery Training and Research Hospital, Istanbul, Türkiye

E-mail: drulkuakturk@yahoo.com

Section: Lung cancer, interventional pulmonology and pleural diseases

İbrahim Onur Alıcı, MD, Assoc. Prof.

Department of Pulmonary Diseases, Bakırçay University Faculty of Medicine, İzmir, Türkiye

E-mail: ioalici@hotmail.com

Section: Interventional pulmonology, clinical problems

Hilal Ermiş, MD, Prof.

Department of Pulmonary Diseases, İnönü University Faculty of Medicine, Turgut Özal Medical Center, Malatya, Türkiye

E-mail: hilalermis3@gmail.com

Section: Sleep-related disorders, clinical problems

Ali Fidan, MD

Department of Pulmonary Diseases, University of Health Sciences, Dr. Lütfi Kırdar Kartal Training and Research Hospital, Istanbul, Türkiye

E-mail: alifidan@yahoo.com

Section: Respiratory infections and tuberculosis

Sanlı Sadi Kurdak, MD, Prof.

Department of Physiology, Çukurova University Faculty of Medicine, Adana, Türkiye

E-mail: sskurdak@cu.edu.tr

Section: Respiratory physiology

Celal Satici, MD, Assoc. Prof.

Department of Pulmonary Diseases, Yedikule Chest Diseases and Chest Surgery Research and Training Hospital, Istanbul, Türkiye

celalsatici@yahoo.com

Section: Infectious diseases

Nazan Şen, MD, Prof.

Department of Pulmonary Diseases, Başkent University Faculty of Medicine, Adana Dr. Turgut Noyan Training and Medical Research Center, Adana, Türkiye

E-mail: nazansen68@gmail.com

Section: Respiratory infections, respiratory failure

Sevinç Sarıncı Ulaşlı, MD, Assoc. Prof.

Department of Pulmonary Diseases, Hacettepe University Faculty of Medicine, Ankara, Türkiye

E-mail: sevincsarinc@gmail.com

Section: Pulmonary vascular diseases and pulmonary rehabilitation

Arzu Didem Yalçın, MD, Assoc. Prof.

Department of Internal Medicine, Allergy and Clinical Immunology Unit, Antalya, Türkiye

E-mail: adidyal@yahoo.com

Section: Chronic airway diseases and allergy

Nilgün Yılmaz Demirci, MD, Assoc. Prof.

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

nilgundemirci@gmail.com

Section: Diffuse parenchymal lung diseases

### Statistical Editors

Nurdan Çolakoğlu

Department of Industrial Engineering, Istanbul Arel University Faculty of Engineering and Architecture, Istanbul, Türkiye

E-mail: nurdancolakoglu@arel.edu.tr

Sevilay Karahan

Department of Biostatistics, Hacettepe University Faculty of Medicine, Ankara, Türkiye

E-mail: sevilaykarahan@gmail.com

### International Advisory Board

Akif Turna

Department of Thoracic Surgery, Istanbul University, Cerrahpaşa Faculty of Medicine, Istanbul, Türkiye

E-mail: akif.turna@gmail.com

Atul Mehta

Cleveland Clinic, Cleveland, USA

E-mail: MEHTAA1@ccf.org

Burcu Yiğitbaş

Department of Pulmonary Diseases, Yedikule Pulmonary Diseases and Thoracic Surgery Training and Research Hospital, Istanbul, Türkiye

E-mail: drburcuayigitbas@yahoo.com

Ceyda Anar

Department of Pulmonary Diseases, İzmir Katip Çelebi University Atatürk Training and Research Hospital, İzmir, Türkiye

E-mail: drceydaanar@hotmail.com

Coenie Koegelenberg

Stellenbosch University & Tygerberg Academic Hospital, Capetown, South Africa

E-mail: coeniefn@sun.ac.za

Daniela Gompelmann

Medical University of Vienna, Vienna, Austria

E-mail: daniela.gompelmann@meduniwien.ac.at



**Turkish  
Respiratory  
Society**

# EURASIAN JOURNAL OF PULMONOLOGY

EURASIAN J PULMONOL

**Dragana Jovanovic**  
Internal Medicine Clinic "Akta Medica", Belgrade, Serbia.  
E-mail: draganajv@yahoo.com

**Ebru Ortaç Ersoy**  
Department of Internal Medicine, Division of Intensive Care, Hacettepe University  
Faculty of Medicine, Ankara Türkiye  
E-mail: ebru.ortac@hacettepe.edu.tr

**Effrosyni Manali**  
General University Hospital "Attikon", National and Kapodistrian University of Athens,  
Athens, Greece  
E-mail: fmanali@otenet.gr

**Elif Babaoğlu**  
Department of Pulmonary Diseases, Hacettepe University, Faculty of Medicine, Türkiye  
E-mail: elifbabaoğlu@hotmail.com

**Emeritus James Jett**  
National Jewish Health, Denver, USA.  
E-mail: 4jett7@gmail.com

**Emeritus Tarik Safwat**  
Ain Shams University, Cairo, Egypt  
E-mail: tasafwat70@gmail.com

**Emine Argüder**  
Department of Pulmonary Diseases, Yıldırım Beyazıt University, Faculty of Medicine,  
Ankara, Türkiye  
E-mail: drgullu2000@yahoo.com

**Ersin Günay**  
Department of Pulmonary Diseases, Yuksek İhtisas University Faculty of Medicine,  
VM MedicalPark Hospital, Ankara, Türkiye  
E-mail: ersingunay@gmail.com

**Ferhan Özşeker**  
Department of Pulmonary Diseases, Division of Immunology and Allergy, Istanbul  
University, Cerrahpaşa Faculty of Medicine, Istanbul, Türkiye  
E-mail: zfozseker@gmail.com

**Funda Coşkun**  
Department of Pulmonary Diseases, Bursa Uludağ University, Bursa, Türkiye  
E-mail: fundacoskun@gmail.com

**Gülderen Şahin**  
Department of Basic Medical Sciences, Department of Physiology, İstanbul Aydın  
University, Faculty of Medicine, İstanbul, Türkiye  
E-mail: eminegulderensahin@aydin.edu.tr

**Güntülü Ak**  
Eskisehir Osmangazi University, Lung and Pleural Cancers Research and Clinical Center,  
Eskisehir, Türkiye  
E-mail: guntuluak@gmail.com

**Hakan Günen**  
Department of Pulmonary Diseases, Sureyyapasa Chest Diseases and Thoracic Surgery  
Training and Research Hospital, İstanbul, Türkiye  
E-mail: hgunen@yahoo.com

**Joanna Chorostowska-Wynimko**  
National Institute of Tuberculosis and Lung Diseases, Warsaw, Poland  
E-mail: j.chorostowska@gmail.com

**Kazuhiro Yasufuku**  
University of Toronto, Toronto, Canada  
E-mail: Kazuhiro.Yasufuku@uhn.ca

**Kurtuluş Aksu**  
Department of Chest Diseases, Division of Immunology and Allergy, University of Health  
Sciences, Atatürk Chest Diseases and Chest Surgery Education and Research Hospital,  
Ankara, Türkiye  
E-mail: kurtulusaksu@yahoo.com

**Mediha Gönenç Ortaköylü**  
Department of Pulmonary Diseases, Yedikule Chest Diseases and Thoracic Surgery  
Training and Research Hospital, İstanbul, Türkiye  
E-mail: gonencorta@yahoo.com

**Meral Gülhan**  
Department of Pulmonary Diseases, Hitit University Faculty of Medicine, Çorum, Türkiye  
E-mail: meralgulhan@yahoo.com

**Mir Ali Reza Hoda**  
Medical University of Vienna, Vienna, Austria  
E-mail: mir.hoda@meduniwien.ac.at

**Muzaffer Metintaş**  
Department of Pulmonary Diseases, Eskişehir Osmangazi University Faculty of Medicine,  
Eskişehir, Türkiye  
E-mail: muzaffermetintas@gmail.com

**Najib M. Rahman**  
University of Oxford, Oxford, UK  
E-mail: najib.rahman@ndm.ox.ac.uk

**Namita Sood**  
University of California -Davis Health, Sacramento CA, USA  
E-mail: nsood@ucdavis.edu

**Nazmi Bilir**  
Department of Public Health, Hacettepe University Faculty of Medicine,  
Ankara, Türkiye (retired)  
E-mail: nazmi.bilir@gmail.com

**Oya Kayacan**  
Department of Pulmonary Diseases, Ankara University Faculty of Medicine, Ankara, Türkiye  
E-mail: kayacan@medicine.ankara.edu.tr

**Paolo Navalesi**  
University of Padua, Padua, Italy.  
E-mail: pnavalesi@gmail.com; paolo.navalesi@unipd.it

**Ruxandra Ulmeanu**  
Institute of Pneumology "Marius Nasta," Faculty of Medicine Oradea,  
Bucharest, Romania  
E-mail: r\_ulmeanu@yahoo.com

**Semra Bilaceroglu**  
Department of Pulmonary Medicine, University of Health Sciences, İzmir Dr. Suat Seren  
Training and Research Hospital for Thoracic Medicine and Surgery, İzmir, Türkiye.  
E-mail: s.bilaceroglu@gmail.com

**Stephanie Levine**  
University of Texas Health Science Center, San Antonio, Texas, USA.  
E-mail: LevineS@uthscsa.edu

**Ted Popov**  
University Hospital "Sv. Ivan Rilski," Sofia, Bulgaria.  
E-mail: ted.popov@gmail.com

**Ufuk Yılmaz**  
Department of Pulmonary Diseases, Medicana International İzmir Hospital,  
İzmir, Türkiye  
E-mail: ufukyilmazdr@gmail.com

**Ülkü Yılmaz**  
Department of Pulmonary Diseases, University of Health Sciences Atatürk Pulmonary  
Diseases and Thoracic Surgery Training and Research Hospital, Ankara, Türkiye  
E-mail: ulkuylmzdr@gmail.com

**Yusuf Aydemir**  
Department of Pulmonary Diseases, Sakarya University Faculty of Medicine, Sakarya  
Training and Research Hospital, Sakarya, Türkiye  
E-mail: dryaydemir@yahoo.com



## General Information

### The journal

Eurasian Journal of Pulmonology (EJOP) (E-ISSN: 2148-5402) is a publication of Turkish Respiratory Society. The Journal is published in April, August and December. The target audience of EJP are chest diseases specialists and residents as well as all other physicians studying in the area of respiratory diseases.

### Scope of journal

Eurasian Journal of Pulmonology (EJP) provides a platform for clinical and experimental research in all areas of respiratory medicine including chronic airway diseases, allergy, respiratory infections, lung cancer, pleural diseases, pulmonary vascular diseases, respiratory failure, sleep related disorders, interstitial lung diseases, and occupational pulmonary diseases. The journal also incorporates studies related to respiratory physiology, inhalation therapies, pulmonary rehabilitation, lung transplantation, tobacco control policies, interventional pulmonology, thoracic imaging, and thoracic surgery. The journal publishes original research, review articles, statements, consensus reports, case studies, editorials and letter to the editors.

### Abstracting and indexing information

The journal is registered with the following abstracting partners: Baidu Scholar, CNKI (China National Knowledge Infrastructure), EBSCO Publishing's Electronic Databases, Ex Libris – Primo Central, Google Scholar, Hinari, Infotrieve, Netherlands ISSN center, ProQuest, TdNet, Turkey Citation Index, Wanfang Data

The journal is indexed with, or included in, the following: DOAJ, Emerging Sources Citation Index, Web of Science

### Information for Authors

There are no page charges for EJOP submissions. Please check <https://www.eurasianj pulmonol.com/contributors.asp>

All manuscripts must be submitted online at <https://www.eurasianj pulmonol.com/submitarticle.asp>.

### Advertising policies

The journal accepts display and classified advertising. Frequency discounts and special positions are available. Inquiries about advertising should be sent to Kare Medya İletişim Hizmetleri Tic. Ltd. Şti., [kare@karepb.com](mailto:kare@karepb.com).

The journal reserves the right to reject any advertisement considered unsuitable according to the set policies of the journal.

The appearance of advertising or product information in the various sections in the journal does not constitute an endorsement or approval by the journal and/or its publisher of the quality or value of the said product or of claims made for it by its manufacturer.

### Copyright

The entire contents of the Eurasian Journal of Pulmonology are protected under Indian and international copyrights. The Journal, however, grants to all users a free, irrevocable, worldwide, perpetual right of access to, and a license to copy, use, distribute, perform and display the work publicly and to make and distribute derivative works in any digital medium for any reasonable non-commercial purpose, subject to proper attribution of authorship and ownership of the rights. The journal also grants the right to make small numbers of printed copies for their personal non-commercial use.

### Permissions

For information on how to request permissions to reproduce articles/information from this journal, please visit [www.medknow.com](http://www.medknow.com).

### Disclaimer

The information and opinions presented in the Journal reflect the views of the authors and not of the Journal or its Editorial Board or the Publisher. Publication does not constitute endorsement by the journal. Neither the Eurasian Journal of Pulmonology nor its publishers nor anyone else involved in creating, producing or delivering the Eurasian Journal of Pulmonology or the materials contained therein, assumes any liability or responsibility for the accuracy, completeness, or usefulness of any information provided in the Eurasian Journal of Pulmonology, nor shall they be liable for any direct, indirect, incidental, special, consequential or punitive damages arising out of the use of the Eurasian Journal of Pulmonology. The Eurasian Journal of Pulmonology, nor its publishers, nor any other party involved in the preparation of material contained in the Eurasian Journal of Pulmonology represents or warrants that the information contained herein is in every respect accurate or complete, and they are not responsible for any errors or omissions or for the results obtained from the use of such material. Readers are encouraged to confirm the information contained herein with other sources.

### Published by:

Kare Medya İletişim Hizmetleri Tic. Ltd. Şti.

Göztepe Mah. Fahrettin Kerim Gökay Cad. No: 200 D: 2 Göztepe, Kadıköy, İstanbul-Türkiye

Phone: +90 (216) 550 61 11

Fax: +90 (216) 550 61 12

E-mail: [kare@karepb.com](mailto:kare@karepb.com)

Web page: [www.kareyayincilik.com](http://www.kareyayincilik.com)



## CONTENTS

### Review Article

#### **Pulmonary fibrosis as a sequela of COVID-19 infection: What do we know?**

Putri SNV..... 145

### Original Articles

#### **Positron emission tomography/computed tomography (PET/CT) findings in lung nodules and masses: A single-center experience**

Akgün KB, Atılğan Hİ, Karadağ M, Dikmen N..... 152

#### **The contribution of neutrophil-lymphocyte ratio on prognosis in patients diagnosed with epidermal growth factor receptor mutant lung adenocarcinoma**

Kavurgacı S, Akın Kabalak P, Kızılgöz D, Demirağ F, Yılmaz Ü ..... 159

#### **Factors associated with mortality in cases of idiopathic pulmonary fibrosis with mild to moderate functional impairment**

Şengül A, Akıncı Özyürek B, Coşkun F, Yazıcı O, Bozkuş F, Yıldız Gülhan P, Satıcı C ..... 166

#### **Factors affecting the optimal CPAP pressure level and a new prediction formula in patients with obstructive sleep apnea syndrome**

Koca H, Vardarlı E..... 174

#### **The role of the systemic inflammatory index in determining the need for intensive care in COVID-19 pneumonia**

Akkök B, Alkan Baylan F, Ateş S, Ceyhan F, Yalçinkaya KT, Karaküçük SN, Gişi G..... 183

#### **Evaluation of insomnia in healthcare personnel after COVID-19 vaccination**

Yılmam İ, Serez Kaya B, Temelli S, Çakır Edis E, Yuluğkural Z..... 191

### Case Report

#### **A very rare pulmonary pathology from symptom to diagnosis: Dendriiform pulmonary ossification**

Ekinci Fidan M, Kılıç B, Sağlam ÖF, Batur Ş, Erşen E, Kara HV..... 197

### Letter to the Editor

#### **A novel approach to pulmonary fibrosis: Stem cell therapy**

Ikrama M, Usama M, Israr S ..... 203