



Turkish Journal of Nephrology

Volume 34
Issue 4
October 2025

Page 267

Economic Benefit of
Anti-PLA2R Antibody
Testing in the Diagnosis
of Membranous
Nephropathy: A Single-
Center Cost Analysis

Page 304

The Impact of Citrate-
Based Dialysis Solution
on the Efficacy of
Hemodialysis



Turkish Journal of Nephrology



Editor in Chief

Rümeysa Kazancıoğlu

Division of Nephrology, Bezmialem Vakıf University School of Medicine, İstanbul, Türkiye

Editors

Ferruh Artunc

Division of Nephrology, Tuebingen University, Tuebingen, Germany

Nur Canpolat

Department of Pediatric Nephrology, İstanbul University-Cerrahpaşa Cerrahpaşa Faculty of Medicine, İstanbul, Türkiye

Ali Düzova

Division of Pediatric Nephrology, Hacettepe University School of Medicine, Ankara, Türkiye

Özkan Güngör

Division of Nephrology, Kahramanmaraş Sütçü İmam University School of Medicine, Kahramanmaraş, Türkiye

Meltem Gürsu

Division of Nephrology, Bezmialem Vakıf University School of Medicine, İstanbul, Türkiye

Savaş Öztürk

Division of Nephrology, İstanbul University School of Medicine, İstanbul, Türkiye

Sedat Üstündağ

Division of Nephrology, Trakya University School of Medicine, Edirne, Türkiye

Sena Ulu

Department of Nephrology, Bahçeşehir University Faculty of Medicine, İstanbul, Türkiye

Yaşar Çalışkan

Division of Nephrology, Saint Louis University School of Medicine, Saint Louis, USA

Previous Editors in Chief

Emel Akoğlu

Marmara University School of Medicine, İstanbul, Türkiye

Bülent Altun

Hacettepe University School of Medicine, Ankara, Türkiye

Ekrem Ereğ

İstanbul University Cerrahpaşa School of Medicine, İstanbul, Türkiye

Bülent Tokgöç

Division of Nephrology Erciyes University School of Medicine, Kayseri, Türkiye

Cengiz Utaş

Erciyes University School of Medicine, Kayseri, Türkiye

Biostatistics Editor

Gökmen Zararsız

Division of Biostatistics and Informatics, Erciyes University School of Medicine, Kayseri, Türkiye

Editorial Board

Ali Abu-Alfa

Division of Nephrology, American University of Beirut Faculty of Medicine, Beirut, Lebanon

Bülent Altun

Division of Nephrology, Hacettepe University School of Medicine, Ankara, Türkiye

Elif Arı Bakır

Division of Nephrology, University of Health Sciences Kartal Dr Lütfi Kırdar Training and Research Hospital, İstanbul, Türkiye

Mustafa Arıcı

Division of Nephrology, Hacettepe University School of Medicine, Ankara, Türkiye

Turgay Arınsoy

Division of Nephrology, Gazi University School of Medicine, Ankara, Türkiye

Kenan Ateş

Division of Nephrology, Ankara University School of Medicine, Ankara, Türkiye

Jonas Axelsson

Division of Clinical Immunology, Karolinska University Hospital, Stockholm, Sweden

Peter Barany

Division of Clinical Science, Intervention and Technology, Stockholm, Sweden

Vecihi Batuman

Division of Nephrology, Tulane University School of Medicine, Los Angeles, USA

Juan Jesus Carrero

Department of Medical Epidemiology and Biostatistics, Karolinska Institute, Solna, Sweden

Taner Çamsarı

Division of Nephrology, Dokuz Eylül University School of Medicine, İzmir, Türkiye

Ülver Derici

Division of Nephrology, Gazi University School of Medicine, Ankara, Türkiye

Soner Duman

Division of Nephrology, Ege University School of Medicine, İzmir, Türkiye

Tevfik Ecder

Division of Nephrology, İstanbul Bilim University School of Medicine, İstanbul, Türkiye

Demet Eğlenoğlu Alaygut

Division of Nephrology, İzmir Health Sciences University, Tepecik Training and Research Hospital, İzmir, Türkiye

Fevzi Ersoy

Division of Nephrology, Akdeniz University School of Medicine, Antalya, Türkiye

Ethics Editor

Berna Arda

Division of History of Medicine and Medical Ethics, Ankara University School of Medicine, Ankara, Türkiye

Mohamed Hassanein

Division of Nephrology and Hypertension, University of Mississippi Medical Center, Jackson, MS, USA

Talat Alp İkizler

Division of Nephrology, Department of Medicine, Vanderbilt University Medical Center, Nashville, Tennessee, USA

Kamyar Kalantar-Zadeh

Division of Nephrology, Hypertension & Transplantation, Harbor-UCLA Medical Center

Kidney Health WG, Los Angeles County Health Services

UCLA David Geffen School of Medicine

UCLA Fielding School of Public Health Los Angeles, CA

Mehmet Kanbay

Division of Nephrology, Koç University School of Medicine, İstanbul, Türkiye

Norbert Lameire

Division of Nephrology, Ghent University School of Medicine and Health Sciences, Ghent, Belgium

Bengt Lindholm

Department of Clinical Sciences, Intervention and Technology (CLINTEC), Karolinska Institute, Solna, Sweden

Francesca Mallamaci

Division of Nephrology, Hypertension and Renal Transplantation, Ospedale Riuniti, Reggio Cal, Italy

Jolanta Małyszko

Medical University of Białystok, Białystok, Poland

Şafak Mirioğlu

Department of Immunology, İstanbul University Aziz Sancar Institute of Experimental Medicine, İstanbul, Türkiye

Ali Rıza Odabaş

Division of Nephrology, İstanbul Medeniyet University School of Medicine, İstanbul, Türkiye

Ercan Ok

Division of Nephrology, Ege University School of Medicine, İzmir, Türkiye

Alberto Ortiz

Division of Nephrology, University Autonoma of Madrid, Madrid, Spain

Kamil Serdengeçti

Division of Nephrology, İstanbul University Cerrahpaşa School of Medicine, İstanbul, Türkiye

Nurhan Seyahi

Division of Nephrology, İstanbul University Cerrahpaşa School of Medicine, İstanbul, Türkiye

Lale Sever

Division of Pediatric Nephrology, Department of Pediatrics, İstanbul University-Cerrahpaşa School of Medicine, İstanbul, Türkiye

Mehmet Şükrü Sever

Department of Internal Medicine, Division of Nephrology, İstanbul Faculty of Medicine, İstanbul University, İstanbul, Türkiye

Siren Sezer

Division of Nephrology, Atılım University School of Medicine, Ankara, Türkiye

Peter Stenvinkel

Division of Renal Medicine, Karolinska Institutet, Solna, Sweden

Gültekin Süleymanlar

Division of Nephrology, Akdeniz University School of Medicine, Antalya, Türkiye

Vladimir Tesar

Department of Nephrology, 1st Faculty of Medicine and General University Hospital, Charles University, Prague, Czech Republic

Bülent Tokgöç

Division of Nephrology Erciyes University School of Medicine, Kayseri, Türkiye

Zeki Tonbul

Division of Nephrology, Necmettin Erbakan University School of Medicine, Konya, Türkiye

Hüseyin Töz

Division of Nephrology, Ege University School of Medicine, Ankara, Türkiye

Serhan Tuğlular

Division of Nephrology, Marmara University School of Medicine, İstanbul, Türkiye

Aydın Türkmen

Division of Nephrology, İstanbul University School of Medicine, İstanbul, Türkiye

Kültigin Türkmen

Division of Nephrology, Necmettin Erbakan University, Meram School of Medicine, Konya, Türkiye

Raymond Vanholder

Division of Nephrology, University Hospital Ghent, Ghent, Belgium

Abdulgaffar Vural

Gülhane Military Academy School of Medicine, Ankara, Türkiye

Alaattin Yıldız

Division of Nephrology, İstanbul University School of Medicine, İstanbul, Türkiye

Carmine Zoccali

Nephrology, Dialysis and Transplantation Unit, Ospedale Riuniti, Reggio Calabria, Italy



General Manager
İbrahim KARA

Publications Director
Deniz KAYA

Publications Coordinators

Nisanur ATICI
Şeref Mert GÜCÜN
Lütfiye ÇETİN
Şevval AKKAYA
Tabita TOPARLAK

Web Coordinator

Ayça Nur SEZEN

Web Assistants

Ozan ŞAHİN
Batuhan KARA

Finance Coordinator

Gözme DOĞAN

Editor in Chief: Rümeysa Kazancıoğlu

Address: Division of Nephrology, Bezmialem Vakıf University School of Medicine, İstanbul, Türkiye
E-mail: info@turkjnephrol.org

Publishing Services: AVES

Address: Büyükdere Cad. 199/6, 34394, Şişli, İstanbul, Türkiye
Phone: +90 212 217 17 00
E-mail: info@avespublishing.com
Web page: avespublishing.com

About the Turkish Journal of Nephrology

Turkish Journal of Nephrology is a peer reviewed, open access, online-only journal published by the Turkish Society of Nephrology.

Turkish Journal of Nephrology is a quarterly journal that is published in English in January, April, July, and October.

Journal History

As of January 2019, the journal has changed its title to Turkish Journal of Nephrology.

Current Title (2019-)

Turkish Journal of Nephrology
EISSN: 2667-4440

Previous Title (1995-2018)

Turkish Nephrology, Dialysis and Transplantation Journal
ISSN: 1300-7718

Abstracting and Indexing

Turkish Journal of Nephrology is covered in the following abstracting and indexing databases; Web of Science-Emerging Sources Citation Index, Scopus, DOAJ, EBSCO, Gale, CNKI, TUBITAK ULAKBIM TR Index.

All content published in the journal is permanently archived in Portico.

Aims, Scope, and Audience

Turkish Journal of Nephrology 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 on the fields of nephrology, dialysis and transplantation.

Turkish Journal of Nephrology covers a wide range of topics related to etiology, pathogenesis and treatment of kidney diseases, hypertension, acid-base and electrolyte disorders, dialysis therapies, kidney transplantation. In addition, studies focusing on socioeconomic aspects of kidney diseases and their treatments are also of interest to the journal.

Turkish Journal of Nephrology publishes original articles, reviews, letters to the editor, editorial comments, opinion articles, and images in nephrology that are prepared in accordance with the ethical guidelines.

Turkish Journal of Nephrology also contributes to the literature by publishing summaries from the Annual Registry Report of the Turkish Society of Nephrology. The society has been collecting data on end-stage kidney disease since 1990 that has turned into the most comprehensive regional archive. Turkish Journal of Nephrology aims to share this regional data with the international community.

The target audience of the journal includes specialists and professionals working and interested in all disciplines of nephrology and kidney care.

Open Access Policy

Turkish Journal of Nephrology is an open access publication.

Starting on January 2019, all content published in the journal is licensed under the Creative Commons Attribution (CC BY) 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 2019 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 <https://turkjnephrol.org/EN>.

Copyright Policy

A Copyright Agreement and Acknowledgement of Authorship form should be submitted with all manuscripts. By signing this form, authors agree that the article, if accepted for publication by the Turkish Journal of Nephrology, will be licensed under a Creative Commons Attribution (CC BY) 4.0 International License which allows third parties to read, copy and redistribute the material in any format and adapt the material for any purpose immediately upon publication by giving the appropriate credit to the original work.

Publication Fee Policy

Turkish Journal of Nephrology is funded by the Turkish Society of Nephrology. 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://turkjnephrol.org/en/instructions-to-authors-1013>

Contents

Review Articles

- Management of Rapidly Progressive Autosomal Dominant Polycystic Kidney Disease 233
İsmail Koçyiğit, Emre Aydın, Özgür Akın Oto, Kadir Gökhan Atılğan, Tefvik Ecder
- The Dual Role of Microbiota as a Therapeutic Target in Lupus Nephritis 240
Ramesa Shafi Bhat

Original Articles

- Analysis of Body Composition Distribution in Different Stages of Chronic Kidney Disease 253
Srimam Murali, Sridevi Sankaranarayanan, Senthil Kumar Thillaigovindarajan, Yogeswari Raman, Venkatesh Natarajan, Ramprasad Ramprasad
- Low-Dose Rituximab and Calcineurin Inhibitor Combination as an Effective Treatment Strategy in Relapsed Primary Membranous Nephropathy 259
Ahmet Mert Yanık, İlay Berke, Mahmut Başar Aykent, Arzu Velioğlu, Ebru Aşıcıoğlu, Murat Tuğcu, Dilek Barutçu, Zübeyde Serhan Tuğlular, Mehmet Koç, İzzet Hakkı Arıkan
- Economic Benefit of Anti-PLA2R Antibody Testing in the Diagnosis of Membranous Nephropathy: A Single-Center Cost Analysis 267
Asil Demirezen, Nuri Alperen Malkoç, Ömer Faruk Akçay, Saliha Yıldırım, Emre Yaşar, Sena Türkmen, Özlem Gülbahar, Betül Ögüt, İpek Işık Gönül, Galip Güz, Ülver Derici, Yasemin Erten, Kadriye Altok, Özent Helvacı
- Empagliflozin Decreased Proteinuria in Patients with Glomerulonephritis without Diabetes: A Randomized Clinical Trial 272
Shahram Taheri, Mojgan Mortazavi, Shiva Seirafian, Abdolamir Atapour, Firouzeh Moeinzadeh, Javad Golpayegani
- Leptospirosis-Associated Acute Kidney Injury—Still a Major Burden in Tropical Countries? 281
Indhumathi Elayaperumal, Kevin T John Keepallil, Nisha Jose, Jayakumar Matcha
- Post-Earthquake Realities: A Study on the Challenges of Relocated Hemodialysis Patients Following the Kahramanmaraş Earthquake 289
Murat Tuğcu, Mustafa Keleş, Murat Duranay, Bülent Hüddam, Raziye Yazıcı, Yavuz Ayar, Fatma Betül Güzel, Zehra Eren, Sultan Özkurt, Ebru Gök Oğuz, Tuncay Şahutoğlu, İrem Pembegül, İdris Şahin, Zafer Ercan, Melike Betül Ögütmen, Rümeyza Kazancıoğlu, Zübeyde Serhan Tuğlular
- Outcomes of Peritoneal Dialysis after Kidney Transplant Failure: A Single-Center Experience 297
Gizem Kumru, Şayeste Akkan Eren, Şule Şengul, Kenan Ateş, Kenan Keven
- The Impact of Citrate-Based Dialysis Solution on the Efficacy of Hemodialysis 304
Kerim Erer, Cihan Uysal, Oktay Oymak

Images in Nephrology

- Linagliptin-Induced Bullous Pemphigoid in Chronic Kidney Disease 311
Gerry George Mathew, Priya Cinna T Durai

Letter to the Editor

- Nivolumab-Associated Acute Tubulointerstitial Nephritis in a Gastric Cancer Patient 314
Engin Onan, Tuba Canpolat, Dilek Torun, Ruya Kozanoglu, Hasan Micozkadioglu, Fatih Kose
- F18-FDG PET/CT Findings in Kidney Graft Intolerance Syndrome 316
Yağmur Tahilioğlu, Rabia Hacer Hocaoglu, Ayşe Serra Artan, Ahmet Burak Dirim, Duygu Has Şimşek, Özgür Oto Akın, Halil Yazıcı, Savaş Öztürk, Aydın Türkmen
- Acute Tubular Necrosis Associated with Esflurbiprofen Patch Use 318
Hinpetch Daungsupawong, Viroj Wiwanitkit