

ENDOCRINOLOGY RESEARCH AND PRACTICE









Owner on behalf of the Society of Endocrinology and Metabolism of Turkey

Ayşegül Atmaca

Ondokuz Mayıs University Faculty of Medicine, Samsun

Editor-in Chief

Murat Faik Erdoğan

Ankara University Faculty of Medicine, Ankara, Turkey

Deputy Editor

Dilek Gogas Yavuz

Marmara University Faculty of Medicine, İstanbul, Turkey

Associate Editors

Neslihan Başçıl Tütüncü

Baskent University Faculty of Medicine, Ankara, Turkey

Canan Özyardımcı Ersoy

Department of Endocrinology and Metabolism, Bursa Uludağ University Faculty of Medicine, Bursa, Turkey

Fatih Tanrıverdi

Endocrinology and Metabolism Diseases Clinic, Memorial Kayseri Hospital, Kayseri, Turkey

Statistical Consultants

Atilla Halil Elhan

Ankara University, Ankara, Turkey

Levent Dönmez

Akdeniz University, Antalya, Turkey

Derya Öztuna Gökmen

Ankara University, Ankara, Turkey

Can Ates

Van Yüzüncü Yıl University Faculty of Medicine, Van, Turkey

Deniz Özel

Akdeniz University Statistical Consulting, Application and Research Center, Antalya, Turkey

Language Editor

Jennifer Gabriel

California, USA



Founder

İbrahim KARA

General Manager

Ali ŞAHİN

Publishing Directors

İrem SOYSAL Gökhan ÇIMEN

Editor

Bahar ALBAYRAK

Publications Coordinators

Arzu ARI Deniz KAYA Irmak BERBEROĞLU Alara ERGIN Hira Gizem FIDAN

İrem ÖZMEN

Finance Coordinator

Web Coordinators

Sinem Fehime KOZ

Elif Yıldız ÇELIK

Doğan ORUÇ

Contact

Publishing Service: AVES Address: Büyükdere Cad., 105/9 34394 Şişli, İstanbul, Turkey Phone: +90 212 217 17 00 E-mail: info@avesyayincilik.com Webpage: www.avesyayincilik.com





International Editorial Board

Abdurrahman Çömlekci

Dokuz Eylül University Faculty of Medicine, İzmir, Turkey

Ahmet Çorakçı

Ufuk University Faculty of Medicine, Ankara, Turkey

Ahmet Kaya

Selcuk University Meram Faculty of Medicine, Konya, Turkey

Ali Rıza Uysal

Ankara University Faculty of Medicine, Ankara, Turkey

Alper Sönmez

Gulhane Education and Research Hospital, Ankara, Turkey

Andreas F. H. Pfeiffer

Charité Universitaetsmedizin Berlin, Germany

Anthony Weetman

The University of Sheffield, Sheffield, UK

Ayse Kubat Üzüm

İstanbul University İstanbul Faculty of Medicine, İstanbul, Turkey

Ayşegül Atmaca

Ondokuz Mayıs University Faculty of Medicine, Samsun, Turkey

Bekir Çakır Yıldırım

Beyazıt University Faculty of Medicine, Ankara, Turkey

Belgin Efe

Eskişehir Osmangazi University Faculty of Medicine, Eskişehir, Turkey

Berrin Çetinarslan

Kocaeli University Faculty of Medicine, Kocaeli, Turkey

Bülent Okan Yıldız

Hacettepe University Faculty of Medicine, Ankara, Turkey

Candeğer Yılmaz

Retired Lecturer, Ege University Faculty of Medicine, İzmir, Turkey

Connie Newman

NYU School of Medicine, New York, USA

David Baylink

Loma Linda University, California, USA

Eda Ertörer

Başkent University Adana Dr. Turgut Noyan Hospital, Adana, Turkey

Erol Bolu

Memorial Atasehir Hospital, İstanbul, Turkey

Ersin Akarsu

Gaziantep University Faculty of Medicine, Gaziantep, Turkey

Fahrettin Keleştimur

Health Institutes of Turkey, Ankara, Turkey

Fahri Bayram

Erciyes University Faculty of Medicine, Kayseri, Turkey

Faruk Alagöl

Koç University Faculty of Medicine, İstanbul, Turkey

Füsun Saygılı

Ege University Faculty of Medicine, İzmir, Turkey

Gilles Russ

Pr Leenhardt La Pitie Salpetriere Hospital, France

Göksun Ayvaz

Liv Hospital, Ankara, Turkey

Hatice Sebila Dökmetaş

İstanbul Medipol University Faculty of Medicine, İstanbul, Turkey

Hossein Gharib

Mayo Clinic, Minnesota, USA

Hüsrev Hatemi

İstanbul, Turkey

Irfan Vardarli

Ruhr-University, Bochum, Germany

İbrahim Şahin

İnönü University Faculty of Medicine, Malatya, Turkey

İlhan Satman

İstanbul University İstanbul Faculty of Medicine, İstanbul, Turkey

İnan Anaforoğlu

Medical Park International Trabzon Hospital, Trabzon, Turkey

J. Paul Banga

University of Duisburg-Essen Faculty of Medicine, Germany

Jens Bollerslev

Oslo University Hospital, Norway

John W. Funder

Monash University, Victoria, Australia

Kürşad Ünlühızarcı

Erciyes University Faculty of Medicine, Kayseri, Turkey

Larry Jameson

University of Pennsylvania Perelman Faculty of Medicine, Philadelphia, USA

Leonidas H. Duntas

Evgenideion Hospital, University of Athens, Greece

Maria Alevizaki

Athens University School of Medicine, Athens, Greece

Mehmet Erdoğan

Ege University Faculty of Medicine, İzmir, Turkey

Mehtap Çakır

Kent Hospital, İzmir, Turkey

Metin Arslan

Retired Lecturer, Gazi University Faculty of Medicine, Ankara, Turkey

Mustafa Kemal Balcı

Akdeniz University Faculty of Medicine, Antalya, Turkey

ENDOCRINOLOGY RESEARCH AND PRACTICE



Mustafa Kutlu

Gulhane Education and Research Hospital, Ankara, Turkey

Mustafa Şahin

Ankara University Faculty of Medicine, Ankara, Turkey

Müjde Aktürk

Gazi University Faculty of Medicine, Ankara, Turkey

Nilgün Güvener

Okan University Faculty of Medicine, İstanbul, Turkey

Olcay Gedik

Retired Lecturer, Hacettepe University Faculty of Medicine, Ankara, Turkey

Ömer Azal

Gulhane Education and Research Hospital, Ankara, Turkey

Pınar Kadıoğlu

İstanbul University Cerrahpasa Faculty of Medicine, İstanbul, Turkey

Pierre J. Lefebvre

University of Liege Faculty of Medicine, Liege, Belgium

Refik Tanakol

İstanbul University İstanbul Faculty of Medicine, İstanbul, Turkey

Sadi Güngoğdu

Retired Lecturer, İstanbul University Cerrahpaşa Faculty of Medicine, İstanbul, Turkey

Sait Gönen

İstanbul University Cerrahpaşa Faculty of Medicine, İstanbul, Turkey

Former Editor-in Chiefs

1997-2002 Prof. Dr. Taylan Kabalak 2003-2004 Prof. Dr. Gürbüz Erdoğan 2005-2006 Prof. Dr. Şazi İmamoğlu 2007-2008 Prof. Dr. Sema Akalın 2008-2022 Prof. Dr. Nilgün Başkal Selçuk Dağdelen

Hacettepe University Faculty of Medicine, Ankara, Turkey

Sema Yarman

İstanbul University İstanbul Faculty of Medicine, İstanbul, Turkey

Serdar Güler

Liv Hospital, Ankara, Turkey

Sevim Güllü

Ankara University Faculty of Medicine, Ankara, Turkey

Sevinc Eraslan

Dokuz Eylul University Faculty of Medicine, İzmir, Turkey

Steen Joop Bonnema

Odense University Hospital, Denmark

Tae Sun Park

Chonbuk National University Faculty of Medicine, Jeonju, Korea

Tomris Erbas

Hacettepe University Faculty of Medicine, Ankara, Turkey

Tümay Sözen

Hacettepe University Faculty of Medicine, Ankara, Turkey

Yalcın Aral

Bozok University Institute of Health Sciences, Yozgat, Turkey

Zeliha Hekimsoy

Celal Bayar University Faculty of Medicine, Manisa, Turkey





Endocrinology Research and Practice (formerly Turkish Journal of Endocrinology and Metabolism) is the scientific, open access, online-only official periodical of the Society of Endocrinology and Metabolism of Turkey. The journal is published in accordance with independent, unbiased, and double-blinded peer-review principles. It is published quarterly in January, April, July, and October. The publication language of the journal is English.

Endocrinology Research and Practice aims to contribute to the literature by publishing manuscripts at the highest scientific level on clinical and experimental endocrinology, metabolic diseases and related fields. The journal publishes original articles, case reports, reviews, letters to the editor, scientific letters, short reports, and technical reports that are prepared in accordance with ethical guidelines.

The scope of the journal includes but not limited to thyroid, obesity, diabetes, osteoporosis, and pituitary. Starting from July 2022, Endocrinology Research and Practice does not consider manuscripts on pediatric endocrinology for publication, unless they are related with the adulthood transition.

The target audience of the journal includes specialists, researchers and professionals who are working and interested in the field of endocrinology and metabolism.

Endocrinology Research and Practice is currently indexed in Web of Science – Emerging Sources Citation Index, Scopus, CINAHL, Directory of Open Access Journals (DOAJ), EBSCO, Embase, TUBITAK ULAKBIM TR Index and Gale.

The editorial and publication processes of the journal are shaped in accordance with the guidelines of the International Committee of Medical Journal Editors (ICMJE), World Association of Medical Editors (WAME), Council of Science Editors (CSE), Committee on Publication Ethics (COPE), European Association of Science Editors (EASE), and National Information Standards Organization (NISO). The journal is in conformity with the Principles of Transparency and Best Practice in Scholarly Publishing (doaj.org/bestpractice).

Processing and publication are free of charge with the journal. No fees are requested from the authors at any point throughout the evaluation and publication process. All manuscripts must be submitted via the online submission system, which is available at http://endocrinolrespract.org. The journal guidelines, technical information, and the required forms are available on the journal's web page.

Advertisement Policy

Endocrinology Research and Practice can publish advertisement images in the journal's website upon the approval of the Editor in Chief. Potential advertisers should contact the Editorial Office. Advertisers have no effect on the editorial decisions or advertising policies. To avoid implied endorsement by the Journal, the article, or the authors of the article; advertisements are not adjacent to articles addressing the product or its disease state.

Disclaimer

Statements or opinions expressed in the manuscripts published in the journal reflect the views of the author(s) and not the opinions of the editors, editorial board, and/or publisher; the editors, editorial board, and publisher disclaim any responsibility or liability for such materials.

Open Access Statement

Endocrinology Research and Practice is an open access publication, and the journal's publication model is based on Budapest Access Initiative (BOAI) declaration. All published content is available online, free of charge at http://endocrinolrespract.org. The journal's content is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike (CC BY-NC-SA) 4.0 International License which permits third parties to share and adapt the content for non-commercial purposes by giving the appropriate credit to the original work. In case of adaptation (remix, transform, or build upon), the contributions should be distributed with the same license as the original.

Editor in Chief: Murat Faik Erdoğan

Address: Meşrutiyet Cad. Ali Bey Apt. 29/12 Kızılay, Ankara, Türkiye

E-mail: murat.erdogan@temd.org.tr

Publisher: AVES

Address: Büyükderece Cad., 105/9 34394 Şişli, İstanbul, Turkey

Phone: +90 212 217 17 00 E-mail: info@avesyayincilik.com Webpage: http://avespublishing.com





CONTENTS

-	• -	
Εd	ito	rıal

1 From the editor

Original Articles

- The Relationship Between Hand Function and Activities of Daily Living in Patients with Hypothyroidism Sema Hepsen, Dilek Baday Keskin, Erman Çakal
- Assessment of Metabolic Syndrome Components in Patients with Normocalcemic Hyperparathyroidism:

 A Retrospective Study

Osman Alp Baykut, Gülşah Elbüken, Burcu Tokuç, Sayid Shafi Zuhur

- Insulin-Like Growth Factor-I Axis Changes in Fasting Among Healthy and Prediabetic Men: A Case-Control Study Majid Reza Sheikh Rezaee, Saeid Abediankenari, Parisa Islami Parkoohi, Fatemeh Daneshvar, Ahmad Ahmadzadeh Amiri
- 21 Effects of High-Intensity Training Upon Appetite, Body Mass, Aerobic Capacity, and Metabolic Hormones in Overweight Women

Mitra Khademosharie, Azam Mollanovruzi

Case Reports

- Two Deadly Complications of Untreated Hypothyroidism: Sudden Cardiac Arrest and Acute Coronary Syndrome Esma Pehlivan Köroğlu, Hatice Özışık, Fatih Tamnik, Mehmet Uyar, Mehmet Erdoğan
- Newly Diagnosed Type 1 Diabetes Presenting with Diabetic Ketoacidosis After SARS-CoV-2 Vaccine Muharrem Köse, İnan Anaforoğlu
- Diabetic Myonecrosis—An Underdiagnosed, Rare Muscular Complication of a Common Disease: A Case Report Olumuyiwa Ifedayo Ajayi, Abiola Omobonike Adekoya, Ayanbola Idayat Adepoju, Adesola Olubunmi Adekoya, Mojisola Ajoke Olusola-Bello, Victor Olufemi Oyedepo

Letter to the Editor

40 Comment on: Risk Factors and Outcomes of the Post-Liver Transplantation Diabetes Mellitus Ömercan Topaloğlu, Seda Nur Topaloğlu, İbrahim Şahin

Author's Reponse

Answer Regarding Comment on: Risk Factors and Outcomes of the Post-Liver Transplantation Diabetes Mellitus Yasemin Aydoğan Ünsal, Özen Öz Gül, Mehmet Refik Göktuğ, Soner Cander, Canan Özyardımcı Ersoy, Ensar Aydemir, Coşkun Ateş, Oktay Ünsal, Murat Kıyıcı, Erdinç Ertürk