

ENDOCRINOLOGY RESEARCH AND PRACTICE









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

Mustafa Cesur

Yüksek İhtisas University Faculty of Medicine, Güven Hospital, Ankara, Türkiye

Editor-in Chief

Murat Faik Erdoğan

Ankara University Faculty of Medicine, Ankara, Türkiye

Deputy Editor

Dilek Gogas Yavuz

Marmara University School of Medicine, İstanbul, Türkiye

Associate Editors

Neslihan Başçıl Tütüncü

Baskent University Faculty of Medicine, Ankara, Türkiye

Canan Özyardımcı Ersoy

Bursa Uludağ University Faculty of Medicine, Bursa, Türkiye

Fatih Tanrıverdi

Memorial Kayseri Hospital, Kayseri, Türkiye

Statistical Consultant

Can Ates

Van Yüzüncü Yıl University Faculty of Medicine, Van, Türkiye

Beyza Doğanay

Ankara University Faculty of Medicine, Ankara, Türkiye

Levent Dönmez

Akdeniz University, Antalya, Türkiye

Atilla Elhan

Ankara University Faculty of Medicine, Ankara, Türkiye

Derya Öztuna Gökmen

Ankara University, Ankara, Türkiye

Language Editor

Jennifer Gabriel

California, USA



Founder İbrahim KARA

General Manager

Ali ŞAHİN

Finance Coordinator

Sinem Fehime İLHAN

Journal Managers

Deniz KAYA

Irmak BERBEROĞLU

Publications Coordinators

Alara ERGİN İrem ÖZMEN

Derva AZER Nisanur ATICI

Şeref Mert GÜCÜN

Web Specialist

Erdem ERCIVAN

Project Assistant

Batuhan KARA

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: Büyükdere Cad. 199/6, 34394,

Şişli, İstanbul, Türkiye Phone: +90 212 217 17 00 E-mail: info@avesyayincilik.com

Webpage: https://www.avesyayincilik.com/





International Editorial Board

Ersin Akarsu

Gaziantep University Faculty of Medicine, Gaziantep, Türkiye

Müjde Aktürk

Gazi University Faculty of Medicine, Ankara, Türkiye

Faruk Alagöl

Koç University Faculty of Medicine, İstanbul, Türkiye

Maria Alevizaki

Retired Lecturer, Athens University School of Medicine, Athens,

Greece

İnan Anaforoğlu

Medical Park International Trabzon Hospital, Trabzon, Türkiye

Metin Arslan

Gazi University Faculty of Medicine Retired Lecturer, Ankara, Türkiye

Ayşegül Atmaca

Ondokuz Mayıs University Faculty of Medicine, Samsun, Türkiye

Omer Azal

Gulhane Education and Research Hospital Retired Lecturer, Ankara,

Türkiye

Mustafa Kemal Balcı

Akdeniz University Faculty of Medicine, Antalya, Türkiye

J Paul Banga

University of Duisburg-Essen Faculty of Medicine, Germany

David Baylink

Loma Linda University, California, USA

Taner Bayraktaroğlu

Zonguldak Bülent Ecevit University, Zonguldak, Türkiye

Fahri Bayram

Erciyes University Faculty of Medicine, Kayseri, Türkiye

Jens Bollerslev

Oslo University Hospital, Norway

Steen Joop Bonnema

Odense University Hospital, Denmark

Felipe F. Casaneuva

University of Santiago de Compostela, Spain

Roger Chen

St Vincent's Hospital, Sidney, Australia

Bekir Çakır

Yıldırım Beyazıt University Faculty of Medicine, Ankara, Türkiye

Mehtap Çakır

Kent Hospital, İzmir, Türkiye

Ahmet Çorakçı

Ufuk University Faculty of Medicine, Ankara, Türkiye

Abdurrahman Çömlekci

Dokuz Eylül University Faculty of Medicine, İzmir, Türkiye

Selçuk Dağdelen

Hacettepe University Faculty of Medicine, Ankara, Türkiye

Leonidas H Duntas

Evgenideion Hospital, University of Athens, Greece

Belgin Efe

Eskişehir Osmangazi University Faculty of Medicine, Eskişehir,

Türkiye

Tomris Erbaş

Hacettepe University Faculty of Medicine, Ankara, Türkiye

Mehmet Erdoğan

Ege University Faculty of Medicine İzmir, Türkiye

Eda Ertörer

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

John W. Funder

Monash University, Victoria, Australia

Hossein Gharib

Mayo Clinic, Minnesota, USA

Ezio Ghigo

University of Torino, Torino, Italy

Sait Gönen

İstanbul University Cerrahpaşa Faculty of Medicine, İstanbul, Türkiye

Sevim Güllü

Ankara University Faculty of Medicine, Ankara, Türkiye

Sadi Gündoğdu

Istanbul University Cerrahpaşa Faculty of Medicine Retired Lecturer, İstanbul, Türkiye

Zeliha Hekimsoy

Celal Bayar University Faculty of Medicine, Manisa, Türkiye

Larry Jameson

Perelman School of Medicine Univ. Of Pennsylvania, Philadelphia,

Pınar Kadıoğlu

İstanbul University Cerrahpasa Faculty of Medicine, İstanbul, Türkiye

Zuleyha Karaca

Erciyes University, Kayseri, Türkiye

Ahmet Kaya

Retired Lecturer, Selçuk University Meram Faculty of Medicine, Konya, Türkiye

Ayse Kubat Üzüm

İstanbul University İstanbul Faculty of Medicine, İstanbul, Türkiye

Fahrettin Keleştimur

Yeditepe University Koşuyolu Hospital, İstanbul, Türkiye

Pierre J. Lefebvre

University of Liege Faculty of Medicine, Liege, Belgium

Connie Newman

NYU School of Medicine, New York, USA

Tae Sun Park

Chonbuk National University Medical School, Jeonju, Korea





Andreas F. H. Pfeiffer

Charité Universitaetsmedizin Berlin, Germany

Gilles Russ

Pr Leenhardt La Pitie Salpetriere Hospital, France

İlhan Satman

İstanbul University İstanbul Faculty of Medicine, İstanbul, Türkiye

Füsun Saygılı

Ege University Faculty of Medicine, İzmir, Türkiye

Alper Sönmez

Ankara Guven Hospital, Ankara, Türkiye

Tümay Sözen

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

İbrahim Şahin

İnönü University Faculty of Medicine, Malatya, Türkiye

Mustafa Şahin

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 Ankara University Faculty of Medicine, Ankara, Türkiye

Refik Tanakol

American Hospital, İstanbul, Türkiye

Kürsad Ünlühızarcı

Erciyes University Faculty of Medicine, Kayseri, Türkiye

İrfan Vardarlı

Universitatsmedizin Mannheim, Heidelberg University, Mannheim, Germany

Sema Yarman

Retired Lecturer, Acıbadem Maslak Hospital, İstanbul, Türkiye

Dilek Yazıcı

Koç University Faculty of Medicine, İstanbul, Türkiye

Bülent Okan Yıldız

Hacettepe University Faculty of Medicine, Ankara, Türkiye





About the Endocrinology Research and Practice

Endocrinology Research and Practice (Endocrinol Res Pract) is a peer reviewed, open access, online-only journal published by the Society of Endocrinology and Metabolism of Türkiye.

Endocrinology Research and Practice is a quarterly journal that is published in English in January, April, July, and October.

Journal History

As of 2023, the journal has changed its title to Endocrinology Research and Practice. Previous title (1997-2022) was Turkish Journal of Endocrinology and Metabolism (EISSN: 1308-9846).

Abstracting and indexing

Endocrinology Research and Practice is covered in the following abstracting and indexing databases; Web of Science – Emerging Sources Citation Index, Scopus, CINAHL, Directory of Open Access Journals (DOAJ), EBSCO, Embase, TUBITAK ULAKBIM TR Index, Gale.

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

Aims, Scope, and Audience

Endocrinology Research and Practice aims to publish studies of the high scientific value and encourages the submission of high-quality research that advances the understanding and treatment of endocrinologic and metabolic conditions.

Endocrinology Research and Practice covers a wide range of topics related to thyroid, obesity, diabetes, osteoporosis, lipid metabolism and pituitary. 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 endocrinology and metabolism. 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.

Endocrinology Research and Practice publishes clinical articles, case reports, reviews, scientific letters, short reports, and technical reports and letters to the editor. Conference proceedings may also be considered for publication.

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

Open Access Policy

Endocrinology Research and Practice is an open access publication.

Starting on March 2020, all content published in the journal is licensed under the 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.

The content published before March 2020 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 endocrinolrespract.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 agree that the article, if accepted for publication by the Endocrinology Research and Practice will be licensed under a the 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.

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 Endocrinology Research and Practice.

Publication Fee Policy

Endocrinology Research and Practice is funded by the Society of Endocrinology and Metabolism of Türkiye (SEMT). Authors are not required to pay any fees during the evaluation and publication process.





CONTENTS

Editorial

137 Endocrinology Research and Practice is Climbing the Stairs One by One Murat Faik Erdoğan

Original Articles

- Growth Differentiation Factor 15 in Patients with Acromegaly: A Case-Control Study
 Hayri Bostan, Sema Hepşen, Ümran Gül, Hakan Düğer, Serdar Kayıhan, Aykut Çimşir, Özgür Özçelik,
 İlknur Öztürk Ünsal, Murat Calapkulu, Bekir Ucan, Erman Çakal, Muhammed Kızılgül
- Association Between Prognostic Nutritional Index and Bone Mineral Density, Fracture Risk Assessment (FRAX) Tool, and Disability in Patients with Postmenopausal Osteopenia/Osteoporosis: A Cross-Sectional Study Dilek Baday-Keskin, Sema Hepşen, Cuma Uz
- Evaluation of Coronavirus Disease 2019-Related Morbidity and Mortality in Lipodystrophy Patients During the Pandemic Period
 Gökçen Güngör Semiz, Tevfik Demir, Ilgın Yıldırım Şimşir, İsmail Selimoğlu, Müge Yılmaz, Hülya Ellidokuz, Hüseyin Onay, Ramazan Gen, Bahri Evren
- Relationship Between Serum Betatrophin Levels and Non-alcoholic Fatty Liver Disease in Hypogonadal Males Feyza Sarışık, Ayten Oğuz, Murat Şahin, Murat İspiroğlu, Ergül B. Kurutaş, Özlem Nakış Bozkuş, Ümit Nur Özbay, Kamile Gül
- 164 Changes in Cognitive Functions Caused by Acute Hypothyroidism During Withdrawal of L-Thyroxine in Patients with Differentiated Thyroid Carcinoma

Kürşad Ünlühızarcı, Burcu Eren Cengiz, Nazan Dolu, Ayşa Hacıoğlu, Züleyha Karaca, Fatih Tanrıverdi, Fahrettin Keleştimur

Reviews

- **169** Evaluation of Mild Hyperglycemia During Early Pregnancy Hakan Doğruel, Mustafa Aydemir, Ramazan Sarı
- **175** Diabetic Osteodystrophy
 Mehmet Ali Eren, Özen Öz Gül

Short Report

181 Effect of Dopamine Agonist Treatment on Glycemic Control in Patients with Lipodystrophy Ilgın Yıldırım Şimşir, Su Özgür, Utku Erdem Soyaltın, Şevki Çetinkalp

Case Reports

- 184 Leydig Cell Tumor Mimicking Testicular Adrenal Rest Tumor in a Child with Congenital Adrenal Hyperplasia Kutay Bahadır, Selin Ural, Cumhur İbrahim Başsorgun, Mesut Parlak, Güngör Karagüzel
- Autoimmune Gestational Diabetes, An Uncommon Cause of Type 1 Diabetes: A Case Report Merva Betül Sevinç, Ümit Nur Özbay, Kamile Gül, Ayten Oğuz
- 191 A Case of Langerhans Cell Histiocytosis Presenting with Suprasellar Mass and Panhypopituitarism Clinic Emek Topuz, Dilek Tüzün, Nursel Yurttutan, Murat Şahin