



# TURKISH JOURNAL OF OBSTETRICS AND GYNECOLOGY

June 2024

Volume: 21

Issue: 2

www.tjoddergisi.org

- ▶ **PD-1 gene variants and endometrial cancer**  
PD-1 gen varyantları ve endometriyal kanser  
Mohammad Javad Fattahi, Mozhdeh Momtahan, Maryam Poostkar, Zahra Shiravani, Nasrollah Erfani, Mohammad Reza Haghshenas, Masoumeh Hashemi, Abbas Ghaderi, Ali Kashkooe; Shiraz, Iran
- ▶ **Management of hydrosalpinx and pregnancy outcomes**  
Hidrosalpinks ve gebelik sonuçlarının yönetimi  
Ramadan Ahmed Hashish, Ahmed Mohammed Saeed, Adel Aly Elboghday, Ahmed Soliman; Cairo, Mansoura, Egypt
- ▶ **Laparoscopic and hysteroscopic isthmoplasty**  
Laparoskopik ve histeroskopik istmoplasti  
Reyhane Hosseini, Mohammadamin Parsaei, Nahid Rezaei Ali-abad, Sepand Daliri, Zahra Asgari, Zahra Valian, Nasrin Hajiloo, Samira Mirzaei, Mina Bakhshali-bakhtiari; Tehran, Sari, Urmia, Iran
- ▶ **Metformin, myoinositol, and combined PCOS treatments**  
Metformin, miyoinsitol ve kombine PKOS tedavileri  
Ceyda Karadağ, Mehmet Sakinci, Özer Birge, Mehmet Sait Bakır, Burak Karadağ, Saliha Sağnıç; Antalya, Ordu, Hatay, Van, Turkey
- ▶ **Effect of HUMSC in menopausal rats**  
İGKKH'nin menopozdaki sıçanlarda etkisi  
Kadek Fajar Marta, I Wayan Putu Sutirta Yasa, Aan Jaya Kusuma, I Nyoman Mantik Astawa; Bali, Indonesia
- ▶ **Relationship of ovarian reserve and depression**  
Over rezervi ile depresyon ilişkisi  
Sakine Rahımlı Ocakoğlu, Zeliha Atak, Burak Akselim, Elif Öye, Murat Afşin Turhan, Büşra Başar Yılmaz, Emin Üstünyurt; Bursa, Turkey
- ▶ **Vitamin D evaluation in adenomyosis**  
Adenomyoziste D vitamini değerlendirmesi  
Ufuk Atılıhan, Onur Yavuz, Hüseyin Aytağ Aşar, Can Ata, Selçuk Erkinç, Tefik Berk Bildacı; İzmir, Turkey
- ▶ **Serum autoantibodies and endometriosis: A meta-analysis**  
Serum otoantikörleri ve endometriozis: Bir meta-analiz  
Shiva Fekri, Reza Hassanzadeh Makoui, Negar Ansari, Masoud Hassanzadeh Makoui; Zanjan, Iran
- ▶ **Bazedoxifene and endometriosis: A meta-analysis**  
Bazedoksifen ve endometriozis: Bir meta-analiz  
Reza Hassanzadeh Makoui, Shiva Fekri, Negar Ansari, Masoud Hassanzadeh Makoui; Zanjan, Iran
- ▶ **Occupational asthmogens and child asthma risk**  
Mesleki astımlar ve çocuklarda astım riski  
Parmida Seraj Ebrahimi, Matineh Ardestani Bala, Zahra Mashhadi Tafreshi, Hana Piroti, Mehrsa Mostafaei, Bitu Ghahremani, Faezeh Shaverdi, Alireza Imani Porshokouh, Niloofar Deravi, Mohadeseh Poudineh, Minoo Roostaie; Konya, Turkey; Mashhad, Tehran, Zanjan, Iran
- ▶ **Critical review of the shape trial**  
Shape çalışmasının kritik incelemesi  
Polat Dursun, Murat Gültekin; Ankara, Turkey
- ▶ **Tracheal stenosis and pregnancy**  
Trakeal stenoz ve gebelik  
Azime Bulut, Fatma Alkan; Giresun, Turkey





# TURKISH JOURNAL OF OBSTETRICS AND GYNECOLOGY

## Owner on the behalf of Turkish Society of Obstetrics and Gynecology

İsmail Mete İtil

## Editorial Manager

Ercan Yılmaz

## Past/Honorary Editor in Chief

Hulusi Bülent Zeyneloğlu

## Editor in Chief

Ercan Yılmaz

İnönü University Faculty of Medicine, Turgut Özal Medical Centre, Department of Obstetrics and Gynecology, Malatya, Turkey

E-mail: ercan.yilmaz@inonu.edu.tr

## Co-Editor in Chief

Fatih Şendağ

Ege University Faculty of Medicine, Department of Obstetrics and Gynecology, İzmir, Turkey

E-mail: fatih.sendag@gmail.com

## Section Editors

Hakan Aytan

Mersin University Faculty of Medicine, Department of Obstetrics and Gynecology, Mersin, Turkey

0000-0002-2553-7715

drhakanaytan@yahoo.com

Rahime Nida Bayık

Ümraniye Training and Research Hospital, Department of Obstetrics and Gynecology, İstanbul, Turkey

orcid.org/0000-0003-1805-2178

Mehmet Süha Bostancı

Sakarya University Faculty of Medicine, Department of Obstetrics and Gynecology, Adapazarı, Turkey

orcid.org/0000-0002-4776-6244

Yiğit Çakıroğlu

Kocaeli University Faculty of Medicine, Department of Obstetrics and Gynecology, Kocaeli, Turkey

Emek Doğer

Kocaeli University Faculty of Medicine, Department of Obstetrics and Gynecology, Kocaeli, Turkey

Polat Dursun

Başkent University Faculty of Medicine, Department of Obstetrics and Gynecology, Ankara, Turkey

E-mail: pdursun@yahoo.com

orcid.org/0000-0001-5139-364X

Evrin Erdemoğlu

Süleyman Demirel University Faculty of Medicine, Department of Gynecological Oncology, Isparta, Turkey

0000-0002-5993-6968

evrimmd@yahoo.com

Şafak Hatırnaz

Medicana Samsun International Hospital, Department of Obstetrics and Gynecology, Samsun Turkey

orcid.org/0000-0001-8859-0639

Bülent Haydardedeoğlu

Başkent University Faculty of Medicine, Department of Obstetrics and Gynecology, Ankara, Turkey

E-mail: bulenthaydar@yahoo.com

Mete Sucu

Çukurova University Faculty of Medicine, Department of Obstetrics and Gynecology, Adana, Turkey

0000-0002-6889-7147

metesucu@yahoo.com

Dilek Şahin

Bilkent State Hospital, Clinic of Perinatology, Ankara, Turkey

0000-0001-8567-9048

dilekuygur@gmail.com

Mustafa Coşan Terek

Ege University Faculty of Medicine, Department of Obstetrics and Gynecology, İzmir, Turkey

0000-0002-0294-2857

terekmc@yahoo.com

Mete Gürol Uğur

Gaziantep University Faculty of Medicine, Department of Obstetrics and Gynecology, Gaziantep, Turkey

## Statistics Editor

Bülent Haydardedeoğlu

Başkent University Faculty of Medicine, Department of Obstetrics and Gynecology, Ankara, Turkey

E-mail: bulenthaydar@yahoo.com

## Editorial Board

Aris Antsaklis

University of Athens, Department of Obstetrics and Gynecology, Athens, Greece

Aydın Arıcı

Yale University, Obstetrics, Gynecology and Reproductive Sciences, Connecticut, USA

Tayfun Bağış

Acıbadem University Faculty of Medicine, Department of Obstetrics and Gynecology, İstanbul, Turkey



# TURKISH JOURNAL OF OBSTETRICS AND GYNECOLOGY

**Başak Baksu**

Şişli Etfal Training and Research Hospital, Clinic of Obstetrics and Gynecology, İstanbul, Turkey

**Mehmet Süha Bostancı**

Sakarya University Faculty of Medicine, Department of Obstetrics and Gynecology, Adapazarı, Turkey  
orcid.org/0000-0002-4776-6244

**Sabri Cavkaytar**

Zekai Tahir Burak Women's Health Training and Research Hospital, Clinic of Gynecologic Oncology, Ankara, Turkey

**Yiğit Çakıroğlu**

Kocaeli University Faculty of Medicine, Department of Obstetrics and Gynecology, Kocaeli, Turkey

**Cem Dane**

Haseki Training and Research Hospital, Clinic of Gynecologic Oncology, İstanbul, Turkey

**Emek Doğer**

Kocaeli University Faculty of Medicine, Department of Obstetrics and Gynecology, Kocaeli, Turkey

**Mehmet Sıddık Evsen**

Dicle University Faculty of Medicine, Department of Obstetrics and Gynecology, Diyarbakır, Turkey

**Kazım Gezgine**

Necmettin Erbakan University Meram Faculty of Medicine, Department of Obstetrics and Gynecology, Konya, Turkey

**Haldun Güner**

Gazi University Faculty of Medicine, Department of Obstetrics and Gynecology, Ankara, Turkey

**Cihan Karadağ**

Fenerbahçe University, Medicana Hospital, Department of Obstetrics and Gynecology, İstanbul, Turkey  
orcid.org/0000-0002-4984-5739

**Cihan Kaya**

University of Health Sciences Turkey, Bakırköy Dr. Sadi Konuk Training and Research Hospital, İstanbul, Turkey  
orcid.org/0000-0003-4175-7694

**Issam Lebbi**

Obstetrics and Gynecology and Fertility Private Clinic; Dream Center, Belvedere, Tunisia

**Giampaolo Mandruzzato**

Istituto per l'Infanzia, Burlo Garofolo, Obstetrics and Gynecology, Trieste, Italy

**Charles E. Miller**

Edward-Elmhurst Health Hospital, Gynecology; Reproductive Endocrinology and Infertility, The Advanced IVF and Gynecologic Surgery Institute, Naperville, USA

**Sezcan Mümüşoğlu**

Hacettepe University Faculty of Medicine, Department of Obstetrics and Gynecology, Ankara, Turkey

**Ceana H. Nezhat**

Northside Hospital Director of Training and Education, Nezhat Medical Center, Endometriosis, Minimally Invasive Surgery, Atlanta, USA

**Mehmet Anıl Onan**

Gazi University Faculty of Medicine, Department of Obstetrics and Gynecology, Ankara, Turkey

**Enis Özkaya**

Zeynep Kamil Woman and Childrens Health Training and Research Hospital, Clinic of Obstetrics and Gynecology, İstanbul, Turkey  
orcid.org/0000-0001-6580-1237

**Federico Prefumo**

Local Health District of Garda, Obstetrics, Brescia, Italy

**Walid Saghir**

Clemenceau Medical Center and Trad Hospital, Clinic of Obstetrics and Gynecology, Lebanon, UAE

**Muhammet Erdal Sak**

Harran University Faculty of Medicine, Department of obstetrics and Gynecology, Şanlıurfa, Turkey

**Emre Seli**

Yale University, Obstetrics, Gynecology and Reproductive Sciences, Connecticut, USA

**Silber Sherman**

Infertility Center of St. Louis at St. Luke's Hospital; Public Health Service, Alaska, USA

**Fatih Şendağ**

Acıbadem University Faculty of Medicine, Department of Obstetrics and Gynecology, İstanbul, Turkey

**Mehmet Baki Şentürk**

Namık Kemal University Faculty of Medicine, Tekirdağ, Turkey  
orcid.org/0000-0002-1915-163X

**Ömer Lütfi Tapısız**

Etlik Zübeyde Hanım Women's Health Training and Research Hospital, Clinic of Obstetrics and Gynecology, Ankara, Turkey



# TURKISH JOURNAL OF OBSTETRICS AND GYNECOLOGY

## Hakan Timur

Ordu University Training and Research Hospital, Ordu, Turkey  
orcid.org/0000-0002-4312-4199

## Serdar Ural

Penn State Hershey Womens Health Obstetrics and Gynecology,  
Maternal-Fetal Medicine, Pennsylvania, USA

## Emin Üstünyurt

Bursa High Specialty Training and Research Hospital, Obstetrics and  
Gynecology, Bursa, Turkey

## Gazi Yıldırım

Yeditepe University Faculty of Medicine, Department of Obstetrics and  
Gynecology, İstanbul, Turkey

Please refer to the journal's webpage (<https://tjoddergisi.org/>) for "Aims and Scope", "Instructions to Authors" and "Peer-Review and Ethics".

The editorial and publication process of the Turkish Journal of Obstetrics and Gynecology are shaped in accordance with the guidelines of ICMJE, WAME, CSE, COPE, EASE, and NISO. The journal is in conformity with the Principles of Transparency and Best Practice in Scholarly Publishing.

Turkish Journal of Obstetrics and Gynecology is indexed in PubMed, PubMed Central (PMC), Web of Science-Emerging Sources Citation Index (ESCI), Tübitak/Ulakbim Turkish Medical Database, EBSCO, Embase, Scopus, ProQuest, British Library, Gale, CINAHL, Turk Medline, J-Gate, IdealOnline, CNKI, Hinari, GOALI, ARDI, OARE, AGORA and Türkiye Citation Index.

The journal is published electronically.

**Owner:** İsmail Mete İtil on behalf of the Turkish Society of Obstetrics and Gynecology

**Responsible Manager:** Ercan Yılmaz

## Contact

Çetin Emeç Bulvarı Hürriyet Caddesi Harbiye Mahallesi 1/13 Öveçler, Ankara, Turkey  
Phone: +90 312 481 06 06 Fax: +90 312 481 28 28 E-mail: [editor@tjod.org](mailto:editor@tjod.org)

All rights are reserved. Rights to the use and reproduction, including in the electronic media, of all communications, papers, photographs and illustrations appearing in this journal belong to the Turkish Journal of Obstetrics and Gynecology. Reproduction without prior written permission of part or all of any material is forbidden. The journal complies with the Professional Principles of the Press.

Reviewing the articles' conformity to the publishing standards of the Journal, typesetting, reviewing and editing the manuscripts and abstracts in English and publishing process are realized by Galenos.



## Publisher Contact

Address: Molla Gürani Mah. Kaçamak Sk. No: 21/1 34093 İstanbul, Turkey

Phone: +90 (530) 177 30 97 / +90 (539) 307 32 03 E-mail: [info@galenos.com.tr](mailto:info@galenos.com.tr) Web: [www.galenos.com.tr](http://www.galenos.com.tr)

Publisher Certificate Number: 14521

Online Publication Date: June 2024 E-ISSN: 2149-9330

International scientific journal published quarterly.

## CONTENTS

### Clinical Investigations

- 57** Investigation of *PD-1* gene variants in patients with endometrial cancer: A case-control study  
*Endometriyum kanserli hastalarda PD-1 gen varyantlarının araştırılması: Olgu kontrol çalışması*  
Mohammad Javad Fattahi, Mozdeh Momtahan, Maryam Poostkar, Zahra Shiravani, Nasrollah Erfani, Mohammad Reza Haghshenas, Masoumeh Hashemi, Abbas Ghaderi, Ali Kashkoe; Shiraz, Iran
- 64** Hysteroscopic tubal electrocoagulation versus laparoscopic tubal disconnection for the management of hydrosalpinx and subsequent pregnancy outcomes: A randomized clinical trial  
*Hidrosalpinksin yönetiminde histeroskopik tubal elektrokoagülasyon ile laparoskopik tubal bağlantı kesilmesinin karşılaştırılması ve sonraki gebelik sonuçları: Randomize bir klinik çalışma*  
Ramadan Ahmed Hashish, Ahmed Mohammed Saeed, Adel Aly Elboghady, Ahmed Soliman; Cairo, Mansoura, Egypt
- 70** Comparison of laparoscopic and hysteroscopic surgical treatments for isthmocele: A prospective cohort  
*İstmoselde laparoskopik ve histeroskopik cerrahi tedavilerin karşılaştırılması: Prospektif bir kohort*  
Reyhane Hosseini, Mohammadamin Parsaei, Nahid Rezaei Aliabad, Sepand Daliri, Zahra Asgari, Zahra Valian, Nasrin Hajiloo, Samira Mirzaei, Mina Bakhshali-bakhtiari; Tehran, Sari, Urmia, Iran
- 78** Comparison of metformin, myoinositol and metformin-myoinositol combined treatments for polycystic ovary syndrome  
*Polikistik over sendromunda metformin, miyoinozitol ve metformin-miyoinozitol kombine tedavilerinin karşılaştırılması*  
Ceyda Karadağ, Mehmet Sakinci, Özer Birge, Mehmet Sait Bakır, Burak Karadağ, Saliha Sağnıç; Antalya, Ordu, Hatay, Van, Turkey
- 85** Effect of human umbilical cord stem cells (HUMSC) administration on collagen expression in the anterior vaginal wall in menopausal rats  
*İnsan göbek kordonu kök hücresi (İGKKH) uygulamasının menopozdaki sıçanlarda vajinal ön duvarın kollajen ekspresyonu üzerine etkisi*  
Kadek Fajar Marta, I Wwayan Putu Sutirta Yasa, Aan Jaya Kusuma, I Nyoman Mantik Astawa; Bali, Indonesia
- 91** Is there a relationship between the psychological state of infertile patient and ovarian reserve indicators?  
*İnfertilite hastalarının psikolojik durumu ile over rezervi göstergeleri arasında bir bağlantı var mı?*  
Sakine Rahımlı Ocakoğlu, Zeliha Atak, Burak Akselim, Elif Öye, Murat Afşin Turhan, Büşra Başar Yılmaz, Emin Üstünyurt; Bursa, Turkey
- 98** Vitamin D evaluation in adenomyosis: A retrospective cross-sectional study  
*Adenomyoziste D vitamini değerlendirmesi: Retrospektif kesitsel çalışma*  
Ufuk Atılıhan, Onur Yavuz, Hüseyin Aytuğ Avcı, Can Ata, Selçuk Erkilinç, Tevfik Berk Bildacı; İzmir, Turkey
- Reviews**
- 104** Correlation between the existence of serum autoantibodies and the risk of endometriosis: A systematic review and meta-analysis  
*Serum otoantikörlerinin varlığı ile endometriozis riski arasındaki korelasyon: Sistematik bir derleme ve meta-analiz*  
Shiva Fekri, Reza Hassanzadeh Makoui, Negar Ansari, Masoud Hassanzadeh Makoui; Zanjan, Iran
- 118** Effects of bazedoxifene on endometriosis in experimental animal models: A systematic review and meta-analysis  
*Deneyisel hayvan modellerinde bazedoksifenin endometriozis üzerine etkileri: Sistematik bir derleme ve meta-analiz*  
Reza Hassanzadeh Makoui, Shiva Fekri, Negar Ansari, Masoud Hassanzadeh Makoui; Zanjan, Iran



# TURKISH JOURNAL OF OBSTETRICS AND GYNECOLOGY

## CONTENTS

- 123** Maternal occupational exposure to asthmogenic during pregnancy and the future risk of asthma in children: A meta-analysis

*Annenin hamilelik sırasında astmojenlere mesleki maruziyeti ve çocuklarda astım riski: Bir meta-analiz*

Parmida Seraf Ebrahimi, Matineh Ardestani Bala, Zahra Mashhadi Tafreshi, Hana Piroti, Mehrsa Mostafaei, Bitia Ghahremani, Faezeh Shaverdi, Alireza Imani Porshokouh, Niloofar Deravi, Mohadeseh Poudineh, Minoo Roostaie; Konya, Turkey; Tehran, Mashhad, Zanjan, Iran

### Letters to the Editor

- 131** Critical review of the SHAPE trial

*SHAPE çalışmasının eleştirel değerlendirilmesi*

Polat Dursun, Murat Gültekin; Ankara, Turkey

- 133** Is tracheal stenosis more common and developed earlier in intubated pregnant patients?

*Entübe gebe hastalarda trakeal stenoz daha sık ve daha erken gelişir mi?*

Azime Bulut, Fatma Alkan; Giresun, Turkey