# Journal of Medical Education and Family Medicine

#### **CHIEF EDITORS**

# Esra Çınar TANRIVERDI 🕒

(Medical Education)

Department of Medical Education, Atatürk University, Faculty of Medicine, Erzurum, Türkiye email: jmefm@atauni.edu.tr

# Yasemin ÇAYIR 🕒

(Family Medicine)

Department of Family Medicine, Atatürk University, Faculty of Medicine, Erzurum, Türkiye e-mail: jmefm@atauni.edu.tr

#### ASSOCIATE EDITORS

#### Zülal ÖZKURT D

Department of Enfectious Disease, Atatürk University, Faculty of Medicine, Erzurum, Türkiye e-mail: zulalozkurt@atauni.edu.tr

#### A.M. Abd EL-ATY

Department of Pharmacology, Cairo University,

e-mail: amabdelaty@atauni.edu.tr

#### STATISTICS EDITORS

#### Kamber KASALI



Department of Biostatistics, Atatürk University, Faculty of Medicine, Erzurum, Türkiye e-mail: kamber@atauni.edu.tr

# Çetin TORAMAN D



Department of Medical Education, Onsekizmart University, Faculty of Medicine, Çanakkale, Türkiye e-mail: cetintoraman@comu.edu.tr

#### **LANGUAGE EDITORS**

### A.M. Abd EL-ATY

Department of Pharmacology, Faculty of Veterinary Medicine, Cairo University, Egypt e-mail: amabdelaty@atauni.edu.tr

#### Oktay YAĞIZ (1)



Department of English Language Education e-mail: yoktay@atauni.edu.tr

### **EDITORIAL BOARD**

# Abdul Sattar Nabi Khan D



Family and Community Medicine, King Faisal University, College of Medicine, Alhsa, SAU e-mail: mkhan@kfu.edu.sa

# Arif ONAN D



Department of Medical Education, Akdeniz University, Faculty of Medicine, Antalya, Türkiye e-mail: aonan@akdeniz.edu.tr

# Arzu UZUNER 🕒



Marmara University, Department of Family Medicine, İstanbul, Turkey e-mail: arzuuzuner@gmail.com

#### Aynur KARABACAK ÇELİK 🔟



**Educational Science Department Psychological** Counseling and GuidanceAtatürk University, Faculty of Education, Erzurum, Türkiye e-mail: aynur.karabacak@atauni.edu.tr

# Avse CAYLAN

Trakya University, Department of Family Medicine, Edirne, Turkey

e-mail: acaylan2000@yahoo.com

#### Ayşe Hilal BATI



Department of Medical Education, Ege University, Faculty of Medicine, İzmir, Türkiye e-mail: hilal.bati@gmail.com

#### Berna MUSAL



Department of Medical Education, İzmir Economy University, Faculty of Medicine, İzmir, Türkiye e-mail: berna.musal@izmirekonomi.edu.tr

# Emine Nese YENİCERİ 💿



Muğla University, Department of Family Medicine, Muğla, Turkey

e-mail: nese\_yeniceri@yahoo.com

#### Erol GÜRPINAR D



Department of Medical Education, Akdeniz University, Faculty of Medicine, Antalya, Türkiye e-mail: erolgurpinar@akdeniz.edu.tr

#### Güldal İZBIRAK (10)



Department of Medical Education, Yeditepe University, Faculty of Medicine, İstanbul, Türkiye e-mail: gizbirak@yeditepe.edu.tr

# İskender SAYEK 👵



President of the Association for Accreditation of Medical Education Programs, Ankara, Türkiye e-mail: isayek@gmail.com



Kamile MARAKOGLU D Selçuk University, Department of Family Medicine, Konya, Turkey

e-mail: kmarakoglu@yahoo.com



Mahasti ALİZADEH D Tabriz University of Medical Sciences, Faculty of Medicine, Department of Community and Preventive Medicine, Iran

e-mail: alizadm@yahoo.com

# Melih ELÇİN 🕛



Asistant Dean Interprofessional Education Springfield Collage, School of Healthscience,

e-mail: melcin@springfield.edu

#### Meral DEMİRÖREN D



Department of Medical Education, Hacettepe University, Faculty of Medicine, Ankara, Türkiye e-mail: meraldemiroren@hacettepe.edu.tr

#### Murat TEKİN 🕛



Department of Medical Education, Onsekizmart University, Faculty of Medicine, Çanakkale, Türkiye e-mail: drmurattekin@comu.edu.tr

# Mustafa Kemal ALİMOĞLU ወ



Department of Medical Education, Akdeniz University, Faculty of Medicine, Antalya, Türkiye e-mail: kalimoglu@akdeniz.edu.tr

# Mustafa TURAN



Department of Medical Education and Informatics, TOBB University of Economics and Technology, Faculty of Medicine, Ankara, Türkiye e-mail: mturan@etu.edu.tr

#### Nabil Y KURASHI



King Faisal University, Department of Family and Community Medicine, Dammam, Saudi Arabia e-mail: dr\_nabil\_kurashi@yahoo.com

#### Nazli SENSOY



Afyonkarahisar Health Science University, Department of Family Medicine, Afyon, Turkey e-mail: nazsensoy@yahoo.com

# Oktay SARİ 🕛



Gülhane Health Science University, Department of Family Medicine, Turkey e-mail: oktay.sari@sbu.edu.tr

#### Özlem MIDIK



Department of Medical Education, Ondokuzmayıs University, Faculty of Medicine, Samsun, Türkiye e-mail: ozlemm@omu.edu.tr

# Özlem SARIKAYA 🕒



Department of Medical Education, Okan University, Faculty of Medicine, İstanbul, Türkiye e-mail: ozlemsarikaya@okan.edu.tr

#### Przemyslaw KARDAS (D)



Medical University of Lodz, Department of Family Medicine, Lodz, Poland e-mail: przemyslaw.kardas@umed.lodz.pl

# Samad Shams VAHDATİ 💯



Head Of Emergency and Trauma Care Research Center, Tabriz university of Medical Science/Iran e mail: sshamsv@gmail. com

# Selma AYDIN U



Department of Medical Education, Başkent University, Faculty of Medicine, Ankara, Türkiye e-mail: selmaaydin@baskent.edu.tr

#### Serpil DEMİRAG



Adnan Menderes University, Department of Family Medicine, Aydın, Turkey e-mail: serpilden@yahoo.com

#### Tahsin CELEPKOLU



Dicle University, Department of Family Medicine, Diyarbakır, Turkey e-mail: tcelepkolu@gmail.com

# Journal of Medical Education and Family Medicine

# Tarık TİHAN 💿

**UCSF** Department of Neurological SurgeryUniversity of California, San Francisco e-mail: tarik.tihan@ucsf.edu

# Turan SET 🕒

Karadeniz Technical University, Department of Family Medicine, Trabzon, Turkey e-mail: turanset@gmail.com

# Yeşim ŞENOL 🗓



Department of Medical Education, Akdeniz University, Faculty of Medicine, Antalya, Türkiye e-mail: yysenol@gmail.com

# Zeynep BAYKAN 👵



Department of Medical Education, Erciyes University, Faculty of Medicine, Kayseri, Türkiye e-mail: zbaykan@erciyes.edu.tr



# Journal of Medical Education and Family Medicine

#### **ABOUT**

Journal of Medical Education and Family Medicine is a peer reviewed, open access, online-only journal published by the published by Atatürk University.

Journal of Medical Education and Family Medicine is published triannual in English in April, August, and December.

Journal of Medical Education and Family Medicine aims to publish studies of the highest scientific and clinical value in medical education and family medicine.

Journal of Medical Education and Family Medicine publishes research article, review article, rare case reports, and letter to the editor articles that will contribute to the medical education and family medicine. The main purpose of the journal is to disseminate the scientific knowledge produced in the field of medical education and family medicine to a wide platform.

**Medical Education:** The journal covers a broad spectrum of topics related to medical education, the developments in teaching approach, including innovative teaching methodologies, curriculum development, assessment strategies, and educational technology in medical training. Articles may explore the challenges and advancements in undergraduate and postgraduate medical education, as well as continuing professional development for healthcare practitioners.

**Family Medicine:** The scope extends to various aspects of family medicine, encompassing primary care, preventive medicine, and the management of common health conditions within the context of family and community settings. Research on patient-centered care, chronic disease management, and interdisciplinary collaboration in family medicine is encouraged.

The target audience of the journal includes academicians, clinical researchers, medical/health professionals, students, and related professional and academic bodies and institutions.

All expenses of the journal are covered by the Atatürk University. 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 https://dergipark.org.tr/en/pub/jmefm. The journal guidelines, technical information, and the required forms are available on the journal's web page.

# 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**

Journal of Medical Education and Family Medicine is an open access publication, and the journal's publication model is based on Budapest Access Initiative (BOAI) declara-tion. All published content is available online, free of charge at https://dergipark.org.tr/en/pub/jmefm. The journal's content is licensed under a Creative Commons Attribution-NonCommercial (CC BY-NC) 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.



#### Contact (Editor in Chief)

Esra Çınar TANRIVERDI D (Medical Education)
Department of Medical Education, Atatürk University, Faculty

of Medicine, Erzurum, Türkiye ⊠ email: jmefm@atauni.edu.tr

Yasemin CAYIR (Family Medicine)

Department of Family Medicine, Atatürk University, Faculty of Medicine, Erzurum, Türkiye

e-mail: jmefm@atauni.edu.tr

https://dergipark.org.tr/tr/pub/jmefm

**\*** +90 442 344 86 76 / +90 442 344 87 50

# Contact (Publisher)

#### Atatürk University

Atatürk University, Erzurum, Turkey Atatürk Üniversitesi Rektörlüğü 25240 Erzurum, Türkiye

ataunijournals@atauni.edu.tr

https://bilimseldergiler.atauni.edu.tr

**\*** +90 442 231 15 16

# Journal of Medical Education and Family Medicine

# Editors's Note

Dear Readers,

It is with great pleasure that we present the second issue of the Journal of Medical Education and Family Medicine (JMEFM). In this edition, we continue our commitment to advancing knowledge in medical education and family medicine through a diverse selection of articles. This issue features five insightful contributions, including four research articles and one comprehensive review.

We extend our sincere gratitude to all the authors who have contributed their expertise and dedication to this issue. Their rigorous work and scholarly contributions are pivotal in advancing our understanding and practice in medical education and family medicine.

We hope that this issue will serve as a valuable resource for researchers, educators, and practitioners alike, fostering dialogue and innovation in our field. We invite you to explore the diverse perspectives presented in this issue and look forward to your feedback.

Warm regards,

Prof. Dr. Yasemin ÇAYIR

Assoc Prof. Esra ÇINAR TANRIVERDİ

Editor-in-Chief
Journal of Medical Education and Family Medicine



# Journal of Medical Education and Family Medicine

# **CONTENTS**

#### **RESEARCH ARTICLES**

- **Gender Roles in Medical Education from the Perspective of Medical Faculty Students and Their Effects on Specialty Selection** *Ezgi AĞADAYI, Ayşe GÖKSU BOZDOĞAN, Recep TÜRKER BULUT, Seher KARAHAN*
- The Psychological Impact of COVID-19 on Medical Students: A Cross-Sectional Study Pinar DAYLAN KOÇKAYA
- Comparison of Vitamin and Mineral Usage Status of Patients Applying to Family Health Centres Before and After Covid-19

  Mercan YAĞIZ KARATAŞ, Hatice ÇAKIR
- Resident Doctors' Experiences in Breaking Bad News: The Level of Using Spikes Protocol and Related Factors
  Banu Çiçek DİLFİRUZ, Yasemin ÇAYIR, Esra ÇINAR TANRIVERDİ

#### **INVITED REVIEW**

66 Medical Education and Social Accountability Ayşe Hilal BATI, İskender SAYEK

