



Black Sea Journal of Health Science

Volume 7 | Issue 5



ISSN: 2619 - 9041

 **BS Journals**



**BLACK SEA JOURNAL OF HEALTH SCIENCE
(BSJ HEALTH SCI)**



Black Sea Journal of Health Science (BSJ Health Sci) is double-blind peer-reviewed, open-access international journal published electronically 6 times (January, March, May, July, September, and November) in a year since January 2018. BSJ Health Sci publishes, in English and Turkish full-length original research articles, innovative papers, reviews, mini-reviews, conference papers, case report, rapid communications or technical note by the scientists on technical and clinical studies related to all health sciences.

ISSN: 2619-9041

Phone: +90 362 408 25 15

Fax: +90 362 408 25 15

Email: bsjhealthsci@blackseapublishers.com

Web site: <http://dergipark.gov.tr/bshealthscience>

Sort of Publication: Periodically 6 times in a year (January, March, May, July, September, and November)

Publication Date and Place: September 15, 2024 - Samsun, TÜRKİYE

Publishing Kind: Electronically

EDITOR BOARDS

EDITOR IN CHIEF

Prof. Dr. Ergin KARIPTAŞ, Samsun University, TÜRKİYE

SECTION EDITORS

Prof. Dr. Davut GÜVEN, Editor of Gynecology and Obstetrics, Ondokuz Mayıs University, TÜRKİYE

Prof. Dr. Diler YILMAZ, Editor of Child Health and Diseases, Bandırma Onyedi Eylül University, TÜRKİYE

Prof. Dr. Harun ÇİFTÇİ, Editor of Medical Biochemistry, Çankırı Karatekin University, TÜRKİYE

Prof. Dr. Kaya MEMİŞOĞLU, Editor of Orthopedics and Traumatology, Kocaeli University, TÜRKİYE

Prof. Dr. Mustafa KURT, Editor of Biophysics, Kirsehir Ahi Evran University, TÜRKİYE

Prof. Dr. Oğuz UZUN, Editor of Chest Diseases, Ondokuz Mayıs University, TÜRKİYE

Prof. Dr. Ömer UÇAR, Editor of Veterinary Science, Mugla Sitki Kocman University, TÜRKİYE

Prof. Dr. Soner ÇANKAYA, Editor of Sports Science, Ondokuz Mayıs University, TÜRKİYE

Assoc. Prof. Dr. Akın TEKCAN, Editor of Medical Biology, Amasya University, TÜRKİYE

Assoc. Prof. Dr. Alev AKSOY, Editor of Dentistry, Süleyman Demirel University, TÜRKİYE

Assoc. Prof. Dr. Fatih ÇANKAL, Editor of Radiology, Medipol University, TÜRKİYE

Assoc. Prof. Dr. Fatih ÜÇKARDEŞ, Editor of Biostatistics and Medical Informatics, Adiyaman University, TÜRKİYE

Assoc. Prof. Dr. Fikret GEVREK, Editor of Histology and Embryology, Tokat Gaziosmanpasa University, TÜRKİYE

Assoc. Prof. Dr. Funda KURT, Editor of Emergency Medicine, Ankara Government Hospital, TÜRKİYE

Assoc. Prof. Dr. Gökçe DEMİR, Editor of Nursing, Kirsehir Ahi Evran University, TÜRKİYE

Assoc. Prof. Dr. Onur ÖZTÜRK, Editor of Family Medicine, Samsun Education and Research Hospital, TÜRKİYE

Assoc. Prof. Dr. Roswanira Binti AB WAHAB, Editor of Microbiology, University of Technology, MALAYSIA

Assoc. Prof. Dr. Serbülent YİĞİT, Editor of Medical Biology, Ondokuz Mayıs University, TÜRKİYE

Assoc. Prof. Dr. Sultan ALAN, Editor of Midwifery, Cukurova University, TÜRKİYE

Assoc. Prof. Dr. Yakup BOSTANCI, Editor of Urology, Ondokuz Mayıs University, TÜRKİYE

Assoc. Prof. Dr. Zuhal GÜNDÖĞDU, Editor of Medical Oncology, Kocaeli University, TÜRKİYE

Asst. Prof. Dr. Bora BİLAL, Editor of Anesthesiology and Reanimation, Kahramanmaraş Sutcu Imam University, TÜRKİYE

Asst. Prof. Dr. Ercan TURAL, Editor of Physiotherapy and Rehabilitation, Ondokuz Mayıs University, TÜRKİYE

Asst. Prof. Dr. Güneş BOLATLI, Editor of Anatomy, Siirt University, TÜRKİYE

Asst. Prof. Dr. İbrahim GÖREN, Editor of Internal Medicine, Ondokuz Mayıs University, TÜRKİYE

Asst. Prof. Dr. Kağan KARABULUT, Editor of General Surgery, Ondokuz Mayıs University, TÜRKİYE

Asst. Prof. Dr. Nagihan BİLAL, Editor of Otolaryngology, Kahramanmaraş Sutcu İmam University, TÜRKİYE

Asst. Prof. Dr. Serkan Yaşar ÇELİK, Editor of Medical Pathology, Mugla Sitki Kocman University, TÜRKİYE

Asst. Prof. Dr. Soner ÇAKMAK, Editor of Psychiatry, Cukurova University, TÜRKİYE

Dr. Fatima K. SEREBRYANAYA, Editor of Pharmacy, Pyatigorsk Medical Pharmaceutical Institute, RUSIA

* The ranking is arranged alphabetically within the academic title

STATISTIC EDITOR

Assoc. Prof. Dr. Taner TUNÇ, Ondokuz Mayıs University, TÜRKİYE

ENGLISH EDITOR

Asst. Prof. Dr. Betül ÖZCAN DOST, Ondokuz Mayıs University, TÜRKİYE

TURKISH EDITOR

Prof. Dr. Serkan ŞEN, Ondokuz Mayıs University, TÜRKİYE

REVIEWERS OF THE ISSUE*

- Prof. Dr. Özgün ÖZÇAKA, Ege University, Department of Periodontology, Periodontology, TÜRKİYE
- Prof. Dr. Ülkü BAŞER, İstanbul University, Department of Periodontology, Periodontology, TÜRKİYE
- Assoc. Prof. Dr. Arzu SARIALİOĞLU, Atatürk University, Department of Nursery, Pediatric Health and Illnesses Nursing, TÜRKİYE
- Assoc. Prof. Dr. Ayça ŞOLT KIRCA, Kırklareli University, Department of Midwifery, Clinical Midwifery, TÜRKİYE
- Assoc. Prof. Dr. Dilek YILMAZ, Uludağ University, Department of Nursery, Fundamentals of Nursing, TÜRKİYE
- Assoc. Prof. Dr. Mustafa Can GÜLER, Atatürk University, Department of Physiology, Medical Physiology, TÜRKİYE
- Assist. Prof. Dr. Ayşe KABUK, Zonguldak Bülent Ecevit University, Department of Nursery, Fundamentals of Nursing, TÜRKİYE
- Assist. Prof. Dr. Duygu BAYRAKTAR, Kafkas University, Department of Nursery, Fundamentals of Nursing, TÜRKİYE
- Assist. Prof. Dr. Eda CANGÖL, Çanakkale Onsekiz Mart University, Department of Midwifery, Clinical Midwifery, TÜRKİYE
- Assist. Prof. Dr. Elif Ezgi GÜREL, Trakya University, Department of Emergency Aid and Disaster Management, Physiopathology, TÜRKİYE
- Assist. Prof. Dr. Hatice ACAR BEKTAŞ, Tokat Gaziosmanpaşa University, Department of Midwifery, Midwifery, TÜRKİYE
- Assist. Prof. Dr. Hilal ÜSTÜNDAĞ, Erzincan Binali Yıldırım University, Department of Physiology, Medical Physiology, TÜRKİYE
- Assist. Prof. Dr. İpek KÖSE TOSUNÖZ, Mustafa Kemal University, Department of Nursery, Nursing, TÜRKİYE
- Assist. Prof. Dr. Nur ÖZEN, Antalya Bilim University, Department of Basic Sciences, Medical Physiology, TÜRKİYE
- Assist. Prof. Dr. Semra KÖSE, Necmettin Erbakan University, Department of Nursery, Pediatric Health and Illnesses Nursing, TÜRKİYE
- Dr. Funda EROL, Kocaeli University, Department of Nursery, Fundamentals of Nursing, TÜRKİYE
- Dr. Mehmet ARMAĞAN, Tokat Gaziosmanpaşa University, Department of Therapy and Rehabilitation, Rehabilitation, TÜRKİYE
- Dr. Onur Salman KÖRTELLİ, İstanbul Beykent University, Department of Therapy and Rehabilitation, Rehabilitation, TÜRKİYE
- Dr. Zeynep YILDIZ KIZKIN, Artvin Çoruh University, Department of Therapy and Rehabilitation, Rehabilitation, TÜRKİYE

* The ranking is arranged alphabetically within the academic title

Table of Contents

Research Articles

1. ASSESSMENT OF BIOCHEMICAL PARAMETERS AS INDICATORS OF PROTEIN ENERGY MALNUTRITION IN TURKISH CHILDREN: A COMPREHENSIVE AND RETROSPECTIVE STUDY
Eda GÜLBETEKİN, Namık KILINÇ.....173-180
2. GEBELERİN DOĞUM PLANI VE BU PLANI ETKİLEYEN FAKTÖRLERİN BELİRLENMESİ
Resmiye ÖZDİLEK, Buse Nur KISA.....181-188
3. THE RELATIONSHIP BETWEEN DIALYSIS ADEQUACY AND BLOOD PRESSURE AND NUMBER OF INTRADIALYTIC HYPOTENSIVE EPISODES IN HEMODIALYSIS PATIENTS
Ömer BİNGÖLBALı, Semra OĞUZ189-195
4. MOBİL TELEFON YOKSUNLUĞU (NOMOFOBİ): BİR MESLEK YÜKSEKOKULU ÖRNEĞİ
Dilek KARAMAN.....196-201
5. DETERMINATION OF NURSES' KNOWLEDGE LEVELS REGARDING INTRAMUSCULAR INJECTION TO THE VENTROGLUTEAL AREA
Nadiye BARIŞ EREN.....202-209
6. EFFECTS OF IN VIVO / IN VITRO MELATONIN APPLICATION ON THE DUODENUM IN RATS WITH EXPERIMENTAL HYPERTHYROIDISM
Esra ŞENTÜRK, Fikret ÇELEBİ.....210-217

Review

7. ADVANCES IN ARTIFICIAL INTELLIGENCE-AIDED INTRAORAL IMAGING ANALYSIS IN PERIODONTICS
Gökçe AYKOL ŞAHİN.....218-225