## Journal of Human Environment and Health Promotion

### Spring 2022 Vol. 8, Issue. 2

Owned and published by: Zanjan University of Medical Sciences

**Chairman:** Bakhtiary H, M.D, Child Neurologist

Editor-in-chief: Mehrasbi MR, Ph.D Executive director: Aminzare M, Ph.D Technical editor: Peyda M, Ph.D Statistics consultant: Kamali K, Ph.D Language editor: Rafie SA, MA

#### **Editorial Board**

Ahmadun FR, Ph.D: Prof., National Defense University, Kuala Lumpur, Malaysia

Alimohammadi M, Ph.D: Associate Prof., Tehran University of Medical Sciences, Tehran, Iran

Aminzare M, Ph.D: Associate Prof., Zanjan University of Medical Sciences, Zanjan, Iran Arghami SH, Ph.D: Associate Prof., Zanjan University of Medical Sciences, Zanjan, Iran

**Assadi A, Ph.D:** Associate Prof., Zanjan University of Medical Sciences, Zanjan, Iran **Brijesh KY, Ph.D:** Associate Professor, University of Roorkee, Uttarakhand, India

Farahmandkia Z, Ph.D: Assistant Professor, Zanjan University of Medical Sciences, Zanjan, Iran

Hassanzadazar H, Ph.D: Associate Prof., Zanjan University of Medical Sciences, Zanjan, Iran

Hassanizadeh SM, Ph.D: Assistant Prof., Utrecht University, Utrecht, Netherlands

Jafari F, Ph.D: Assistant Prof., Zanjan University of Medical Sciences, Zanjan, Iran Jafarzadeh N, Ph.D: Prof., Ahvaz Jundishapur University of Medical sciences, Ahvaz, Iran

Jahed Khaniki GR, Ph.D: Prof., Tehran University of Medical Sciences, Tehran, Iran Kamali K, Ph.D: Associate Prof., Zanjan University of Medical Sciences, Zanjan, Iran Mehrasbi MR, Ph.D: Prof., Zanjan University of Medical Sciences, Zanjan, Iran

Mohammadian Fazli M, Ph.D: Associate Prof., Zanjan University of Medical Sciences, Zanjan, Iran

**Nabizadeh R, Ph.D:** Prof., Tehran University of Medical Sciences, Tehran, Iran **Niemann A, Ph.D:** Prof., University of Duisburg-Essen, Duisburg, Germany

Pauzi Zakaria M, Ph.D: Prof., University of Malaya, Kuala Lumpur, Malaysia

**Peyda M, Ph.D:** Assistant Prof., Zanjan University of Medical Sciences, Zanjan, Iran

Raoof A, Ph.D: Assistant Prof., Utrecht University, Utrecht, Netherlands

Sadeghi Gh, Ph.D: Assistant Professor, Zanjan University of Medical Sciences, Zanjan, Iran

Saghatchi F, Msc: Instructor, Zanjan University of Medical Sciences, Zanjan, Iran

Schijven J, Ph.D: Prof., Utrecht University, Utrecht, Netherlands Shahnavaz H, Ph.D: Prof., Luleå University, Luleå, Sweden

Shoghli AR, Ph.D: Associate Prof., Zanjan University of Medical Sciences, Zanjan, Iran

Stevenson JM, Ph.D: Prof., Queen's University, Kingston, Ontario, Canada

Vakili MM, Ph.D: Assistant Prof., Zanjan University of Medical Sciences, Zanjan, Iran

Zamani AA, Ph.D: Associate Prof., University of Zanjan, Zanjan, Iran

#### **Indexing Sources**

Chemical Abstracts Service (CAS) Global Health (CABI)

EBSCO Food Science and Technology Abstract (FSTA)

ProQuest Google Scholar

WHO-Emro-IMEMR Scientific Information Database (SID)

Agricultural Science and Technology Information (AGRIS-FAO)
Islamic World Science Citation Database (ISC)
CAB Abstract (CABI)
Ulrichweb
WorldCat
Magiran

According to License No. of 700/5128 dated 19 February 2019, this journal has been certified as a "Scientific-Research" based journal by commission of Iranian medical journals, Ministry of Health and Medical Education.

**p-ISSN:** 2476-5481 **e-ISSN:** 2476-549X

Journal office: School of Public Health, Parvin Etesami Blvd, Ansarieh, Zanjan, Iran.

(Administrative assistant: Mansouri Sh, BSc)

**Postal Code:** 45157-86349. **Tel:** +98-2433781300 **Fax:** +98-2433773153

Journal website: www.zums.ac.ir/jhehp

Email: jhehp@zums.ac.ir; jhehpinfo@gmail.com

# **Table of Contents:**

## **Review Articles**

The Safety Evaluation of Toxic Elements in Medicinal Plants: A Systematic Review	62
Ebrahim Alinia-Ahandani, Habibollah Nazem, Ali Akbar Malekirad, Mohammad Fazilati	
Real-Life Toxicants as an Emerging Challenge in the Rehabilitation of COVID-19 Survivors	69
Rana Dizaji	
Original Articles	
Antibiotic-Resistant Pattern and Multiple Antibiotic Index of Multidrug-Resistant Staphylococcus aureus	77
from Wound Infection Patients in a Tertiary Institution in South Eastern Nigeria	
Joan Miracle James-Onyekwere , Immaculate Ugochi Nwankwo , Ebubechi Uloma Okey-kalu	
Investigation of Traditional Shir Berenj Safety in Khouzestan Province: Microbiological and Chemical	83
Quality Assessment	
Mahsa Marashi , Abdolazim Behfar , Mohammad Hashemi , Mehdi Safdarian , Seyyed Mohammad Ali Noori	
Assessment of the Resilience of Schools to Disasters in Kermanshah, Iran in 2020	89
Hamed Rahimi , Hamed Mohammadi , Khadijeh Hajimiri	
Effect of Microencapsulation on the Viability of Lactobacillus Acidophilus and Saccharomycess Boulardii	95
Probiotics at Different Storage Temperatures in Doogh	
Hamidreza Halimi , Habib Zighami , Majid Aminzare , Hassan Hassanzadazar	
Designing an HSE Management of Change Model: A Case Study of Civil Engineering Projects Based on the	104
Delphi Method	
Ahmad Soltanzadeh , Iraj Mohammadfam , Ahmad Ghorbani , Mohsen Mahdinia	
Synergistic Antioxidant and Antimicrobial Effects of the Thymoquinone and Eugenol Combination	110
Samira Yousefizadeh , Majid Aminzare , Hassan Hassanzadazar	