



صندوق البحث العلمي
Scientific Research Support Fund



المملكة الأردنية الهاشمية
The Hashemite Kingdom of Jordan



الجامعة الأردنية
The University of Jordan

المجلة الطبية الأردنية

مجلة فصلية علمية عالمية محكمة متخصصة تصدر بدعم من صندوق دعم البحث العلمي

JORDAN MEDICAL JOURNAL

A Quarterly International Refereed Specialized Journal Supported by the Scientific Research Support Fund



المجلد (57)، العدد (1)، آذار 2023

Volume (57), Number (1), March 2023

Publisher

Deanship of Scientific Research (DSR)
The University of Jordan
Amman 11942 Jordan
Fax: +962- 6- 5300815
E-mail: jmj@ju.edu.jo

First Established in Jordan Medical Association in 1965

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means: electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the publisher.

Jordan University Press

الناشر

عمادة البحث العلمي
الجامعة الأردنية
عمان: 11942 الأردن
فاكس +962 -6 -5300815
البريد الإلكتروني: jmi@ju.edu.jo

تأسست في نقابة الأطباء الأردنية عام 1965

جميع الحقوق محفوظة، ولا يسمح بإعادة طباعة هذه المادة أو النقل منها أو تخزينها، سواء أكان ذلك عن طريق النسخ أم التصوير أم التسجيل أم غيره، وبأية وسيلة كانت: إلكترونية، أو ميكانيكية، إلا بإذن خطي من الناشر نفسه.

مطبعة الجامعة الأردنية

JORDAN MEDICAL JOURNAL

Volume (57), Number (1), March 2023

Editor-in-Chief

Prof. Malik E. Juweid

University of Jordan, Amman, Jordan

Editorial Board

Prof. Kamil Fram

University of Jordan, Amman, Jordan

Prof. Mamoun Ahram

University of Jordan, Amman, Jordan

Dr. Ali Al-Radaideh

The Hashemite University, Alzarqaa, Jordan

Prof. Susan Al-Khateeb

University of Science and Technology, Irbid, Jordan

Prof. Mohammed Alsbou

Mutah University, Al-Karak, Jordan

Prof. Hakam Al-Khateeb

Yarmouk University, Irbid, Jordan

Editorial Office

Editorial Secretary

Amal Al-Khawaldeh

Arabic Editor

Ibrahim Rababah

English Editor

Sharon Pointer

Production

Na'eemeh Mofeed Al-Sarrawi

Advisory Board

Yusuf Al-Gaud, Jordan
Muayyad Ahmad, Jordan
Walid abu Hammour, USA
Hatem Shanti, USA
Markus Schwaiger, Germany
Raed Dweik, USA
Samir Khleif, USA
Zuhair Amarín, Jordan
Inaam Khalaf, Jordan
Nadera Sweiss, USA
Ziyad M. Hijazi, USA
Sharock Shariat, Austria

Andrea Gallamini, France
Samir Elbabaa, USA
Yaser Al-Rayyan, Jordan
Amira Taher Al-Masri, Jordan
Kamal Bani Hani, Jordan
Shireen Wajeih, Egypt
James Armitage, USA
Mones Abu-Asab, USA
Feras Hawari, Jordan
Manar Al-Lawama, Jordan
Orhan Alimoglu, Turkey
Mariano del Sol, USA

Ahed Wahadneh, Jordan
Malik Zohlof, Jordan
Ali Guermazi, USA
Faleh Tamimi, Qatar
Mohammad Abu Faraj, Jordan

المجلة الطبية الأردنية

المجلد (57)، العدد (1)، آذار 2023

رئيس هيئة التحرير

أ.د. مالك جويعد

الجامعة الأردنية، عمان، الأردن

أعضاء هيئة التحرير

د. علي الردايدة

الجامعة الهاشمية، الزرقاء، الأردن

أ.د. حكم الخطيب

جامعة اليرموك، إربد، الأردن

أ.د. مأمون أهرام

الجامعة الأردنية، عمان، الأردن

أ.د. محمد السبوع

جامعة مؤتة، الكرك، الأردن

أ.د. كميل أفرام

الجامعة الأردنية، عمان، الأردن

أ.د. سوزان الخطيب

جامعة العلوم والتكنولوجيا الأردنية، إربد، الأردن

أمينة السر

أمل الخوالدة

محرر اللغة العربية

ابراهيم ربابعة

محررة اللغة الإنجليزية

شارون بوينتر

التصميم والإخراج

نعيمة مفيد الصراوي

الهيئة الاستشارية

أ.د. مارينو ديل سول، أمريكا

أ.د. عاهد وهادنة، الأردن

أ.د. علي قرمزي، أمريكا

أ.د. فالح التميمي، قطر

د. محمد أبو فرج، الأردن

أ.د. أندريا جالاميني، فرنسا

أ.د. سميع البعباع، أمريكا

أ.د. ياسر الريان، الأردن

أ.د. أميرة المصري، الأردن

أ.د. مالك الزحلف، الأردن

أ.د. كمال بني هاني، الأردن

أ.د. شيرين وجيه، مصر

أ.د. جيمس أرميتاج، أمريكا

د. مؤنس ابو عصب، أمريكا

أ.د. فراس الهواري، الأردن

أ.د. منار اللواما، الأردن

أ.د. أورهان علمغلو، تركيا

أ.د. يوسف قاعود، الأردن

أ.د. مؤيد أحمد، الأردن

أ.د. حاتم الشطي، أمريكا

أ.د. وليد أبو حمور، أمريكا

أ.د. ماركوس شوايجر، ألمانيا

أ.د. رائد دويك، أمريكا

أ.د. سمير خليف، أمريكا

أ.د. زهير عمارين، الأردن

أ.د. أنعام خلف، الأردن

أ.د. نادرة الصويص، أمريكا

أ.د. زياد حجازي، أمريكا

أ.د. شاركويت شريعت، ألمانيا

Jordan Medical Journal

Contents

Volume (57), Number (1), March 2023

Articles

- Levels of Selective Oxidative Stress Markers and Antioxidant Enzymes in the Blood of Hubble-Bubble Smokers** 1
Yanal A. Shafagoj^{1✉}, Tamara Al-Qudah¹, Mohamed K. Al-Essa¹, Ebtihal Mustafa¹, Suzan Albdoor¹, Mohammed Alkhateeb², Naif Karadsheh¹, Faisal Khatib¹, Mamoun Ahram¹, Faisal I. Mohammed¹,
¹ Department of Physiology & Biochemistry, Faculty of Medicine. The University of Jordan
² National Centre for Diabetes, Endocrinology and Genetics
✉ Corresponding author: yanals@ju.edu.jo
- The Spectrum of Oral Pathology Specimens: A Histopathologic Analysis of 442 Specimens** 12
Tariq N Aladily^{1✉}, Huda Eid², Dalia Waia², Farah Baba²
¹ Department of Pathology, School of Medicine, The University of Jordan, Amman 11942, Jordan
² School of Dentistry, The University of Jordan, Amman 11942, Jordan
✉ Corresponding author: tnaladily@ju.edu.jo
- Knowledge and Attitudes of Women toward the Influenza Vaccination during Pregnancy in Amman, Jordan** 21
Yasmeen E. Barham^{1 ✉}
¹ Department of Family and Community Medicine, Faculty of Medicine, University of Jordan, Amman, Jordan
✉ Corresponding author: Yasmeen_barham@hotmail.com
- Is There an Increased Risk of Intra-Abdominal Abscesses After Laparoscopic Appendectomy? Laparoscopic Versus Open Appendectomy: A Single-Institution Experience** 36
Almuhaisen, Mays Ziad,^{1✉} Alimoglu, Orhan,² Ayoub, RM,³ Alsunna, Raad Hassan,⁴ Qudah, Mohammad Faisal,⁵ Elmuhtaseb, MS⁶
¹ Ministry of Health, General surgeon; Jordan university hospital, general surgery department.
² Professor of Surgery, Head of the Department of General Surgery, Division of Surgical Sciences, Istanbul Medeniyet University.
³ General surgeon, Jordan university hospital, general surgery department.
⁴ ENT specialist, Jordan university hospital; Ministry of health.
⁵ Jordan University, faculty of medicine.
⁶ Jordan university hospital, general surgery department, Colorectal consultant.
✉ Corresponding author: ms_almuhaisen@yahoo.com

Glycemic Control Improvement amongst Patients with Diabetes Mellitus during a COVID-19 Lockdown in Jordan 43

Amani K. Nofal,¹ Raghed A. Abu Jabeh,² Dana B. Alrafayia,³ Tala B. Hyasat,⁴ Lojayn T. Suboh,⁵ Reyad N. Aljabiri,⁶ Saif A. Al Ryalat,⁷ Hussam H. Alhawari,⁸ Ruba M. Jaber⁹

^{1,2,3,4,5,6} Faculty of Medicine, The University of Jordan, 11942 Amman, Jordan.

⁷ Department of Internal medicine, Division of Endocrinology, The University of Jordan, 11942 Amman, Jordan.

⁸ Department of Special Surgery, Division of Ophthalmology, The University of Jordan, 11942 Amman, Jordan.

⁹ Department of Family and Community Medicine, The University of Jordan, 11942 Amman, Jordan.

✉Corresponding author: Raghadabuiebbbeh44@gmail.com

ORCID Id: [0000-0003-2291-8165](https://orcid.org/0000-0003-2291-8165)

The Association between Smartphone Addiction, Depression and Anxiety among Medical Students in Jordan 54

Y. J. Alabdallat,¹ K. A. Albakri,¹ B. M. Al-Hanaqtah,¹ M. H. Al-Dajani,¹ O. M. Saleh¹ and H. Harvey²

¹ Faculty of Medicine, The Hashemite University, Zarqa, Jordan.

² Faculty of Medicine, Elrazi University, Khartoum, Sudan.

✉Corresponding author abdallat.01@gmail.com

ORCID: 0000-0001-6855-3718

Understanding of the Readiness for HTA Implementation in Jordan as a Step Towards Universal Health Coverage 62

Mira Samer Alamer¹, Zoltán Kaló², Tara Schuller³, Emad Almomani⁴ and Raeda AlQutob⁵

¹ Hafedh Saqer St., Amman, Jordan.

² Semmelweis university, Center for Health Technology Assessment, Budapest, Hungary, Syreon Research Institute, Budapest, Hungary.

³ International Network of Agencies of Health Technology Assessment, 1200, 10405, Jasper Avenue NW, Edmonton, Alberta, CANADA T5J 3N4.

⁴ Jordanian Royal Medical Services, Department for Health Technology Assessment, Amman, Jordan, High Health Council, Department for Health Economics and Financing, Amman, Jordan.

⁵ The University of Jordan, Faculty of Medicine, Department of Family and Community Medicine, Amman, Jordan.

✉Corresponding author: Mira_Sam93@yahoo.com

The Association of Male Pattern Baldness in Men with Benign Prostatic Hyperplasia 78

Ghazi Al Edwan¹, Mohammad Abufaraj¹, Mohammad Al-Omari¹, Tariq Alemaryat¹, Hasan Alnawaeseh², Faris Khamaiseh², Ibrahim Abuelbeh², Jamel Sahouri² and Omar Hamdan²

¹ Division of Urology, Department of special surgery, Jordan.

University Hospital, The University of Jordan, Amman, Jordan.

² School of Medicine, The University of Jordan, Amman, Jordan.

✉Corresponding author: Dr.momari@hotmail.com

Cervical Intradural Extramedullary Melanocytoma , Associated with Nevus of Ito. Recurrence and Long-Term Outcome 85

Tamimi Ahmad F.¹, Obeidat Fatimah N.², Al Ryalat Nosaiba T.³, Juweid Malik E.³, Jabaiti Samir⁴, Olimat Yazan¹, Doudeen Rahma M.³, Almustafa Sahar.² Zaid Abuqajamieh¹, Majed Ftaiha¹, Tamimi Iskandar A.⁵

¹ Department of Neurosurgery, Faculty of Medicine, University of Jordan, Jordan,

² Department of Pathology, Faculty of Medicine, University of Jordan, Jordan,

³ Department of Radiology and Nuclear Medicine, Faculty of Medicine, University of Jordan, Jordan,

⁴ Section of Plastic Surgery, Faculty of Medicine, University of Jordan, Jordan,

⁵ Department of Orthopedic Surgery (Malaga University Hospital Carlos Haya, Malaga, Spain)

✉Corresponding author: : aftamimi@hotmail.com

Instructions for Authors

Jordan Medical Journal (JMJ) is a peer-reviewed Journal. Authors are invited to submit their work on any topic of wide spectrum coverage including epidemiology, public health, medicine, surgery, biomedical sciences, nursing, dentistry, indigenous disease, and statement of health care of interest to health care professionals regionally and globally. Original, unpublished papers undergo a careful peer review before being accepted for publication. The Editorial Board reserves the right to make the final decision on publication. Please see the **Editorial policy**.

The journal publishes several types of manuscripts:

1. Original research articles that present novel findings.
2. Review articles on special and up-to-date topics.
3. Case reports with a review of the related literature, especially interesting or challenging clinical cases.
4. Editorials and letters to the editor that can be written by a member of the Editorial Board or submitted by readers.

Authors Responsibility

Manuscripts are received with the understanding that they are not under simultaneous consideration by another journal. An abstract published before a full report is not regarded as a duplicate publication. Please see the **Submission Process**.

Accepted manuscripts or parts of them should not be published elsewhere without JMJ permission.

Manuscript Preparation

The format of the JMJ complies with “Uniform Requirements for Manuscripts submitted to Biomedical Journals” published by the International Committee of Medical Journal Editors in Vancouver, British Columbia, in 1979 (the widely accepted Vancouver Style), as described in the JMJ November 1993.¹ With the exception of blood pressure, all units of measurement and laboratory values must be expressed in SI units; conventional units may be included parenthetically.

Manuscript's text, tables, references, and figure legends must be typewritten, double-spaced on 8 ½ x 11 inch or size A4 paper, with margins of at least 1 inch. Word limits (excluding references) and maximum number of tables/figures and references for each type of manuscripts are listed below:

Manuscript type	Word limits	Maximum number of tables and/or figures	Maximum number of references
Original research article	5000	8	60
Review articles	7000	12	100
Case reports	1000	3	15
Editorials and letters to the editor	900	-	-

Submission checklist

1. Cover Letter

The cover letter serves to introduce the submission to the editorial staff. The letter should explain any deviation from the standard format and any potential conflicts concerning the exclusive nature of the paper. The authors' cover letter must contain these statements:

“The manuscript has been seen and approved by all authors and has not been published or is considered for publication elsewhere. The authors transfer all copyright and ownership to the Jordan Medical Journal.”

2. Manuscript

The submission should be typed as double-spaced with 1" margins on 8.5" x 11", or A4 paper. The first author's last name should appear after the title page. Pages should be numbered consecutively, beginning with the title page. We recommend that the authors insert line numbers into the manuscript to allow the reviewers to precisely indicate where changes should be made. The authors are encouraged to use programs such as Grammarly to ensure the accuracy and appropriateness of the language used in the manuscript.

Full Title Page

The title page will have the followings:

Title: Must be concise and informative to describe the contents of the manuscript. Do not use registered/trademark terms in the manuscript title. The title should not be more than 85 characters long including spaces.

Authors: Provide first name(s) and family name(s) of each author and check that all names are accurately spelled.

Author Affiliations: Please list departmental/institutional affiliations for authors. Please tie each author to the appropriate department(s)/institution(s) where the work was performed using consecutive, superscripted Arabic numbers.

Corresponding Author Info: Provide the name, street address, telephone and fax numbers, and the e-mail address of the corresponding author.

Acknowledgments: Use this section to acknowledge individuals who have provided personal assistance. Please give full names of all individuals mentioned in this section.

Grant/Funding Support: List grant/funding support, if any, on the full title page.

Running Title: At the bottom of the page, please include a short running title of no more than 45 characters long, including spaces, and should give a general idea as to the subject of the paper.

Formal Abstract page

For original papers, the abstract page should contain a structured abstract of no more than 250 words. The abstract should not include footnotes, figures, tables or citations. The abstract must be structured into four distinct sections: A) Background and Aims introducing the significance of the topic and the precise purpose of the paper; B) Materials and Methods describing the principal methods; C) Results presenting the main findings; D) Conclusions summarizing the significance of the work.

For reviews and case reports, an unstructured abstract of no more than 200 words should be submitted.

Keywords

Three to five keywords should be included at the end of the abstract page or the summary page.

Introduction

The introduction presents a brief background of the topic and states the significance and purpose(s) of the study.

Materials and Methods

This section must provide sufficient information to permit detailed evaluation and duplication of the work by other investigators. Ethical guidelines followed must be described. Approval of institutional human research review committees or animal welfare committees should be placed here. Please see the **Editorial policy**.

Results

In this section, report the findings of the work. Use tables and figures where appropriate to improve the clarity of the presentation of the results.

Discussion

Discuss the results in relation to other published works in the same field. Offer explanations for any differences or discrepancies between the presented work and previous reports. Offer possible recommendations, hypotheses, and logical speculations.

References

References should be numbered consecutively in the order in which they are first mentioned in the text, not alphabetically. All references must be cited in the text or tables. Unpublished data and personal communications can be mentioned within the manuscript as such between parentheses but not as references.

References to journal articles should include, in this order: (1) authors, (2) title, (3) journal name (as abbreviated in index medicus), (4) Year, (5) volume, and (6) inclusive page numbers. References to books should include (1) authors, (2) chapter title (if any), (3) editors' names (if any), (4) title of book, (5) city of publication, (6) publisher, and (7) year. Volume and edition numbers and specific page numbers should be included when appropriate. The author is responsible for the accuracy and completeness of the references and their correct textual citation. Refer to reference citations and listings in the text for proper format. For example:

Journal: Hammoudeh A. Cigarette Smoking Cessation among Jordanians after Sustaining Acute Coronary Events. JMJ 2002; 2: 122- 125.

Book Chapter: Weinstein L, Swartz MN. Pathogenic properties of invading microorganisms. In: Sodeman WA Jr. Sodeman WA, eds. Pathologic mechanism of disease. Philadelphia: WB Saunders, 1974; 457-472.

Tables

Type the tables double-spaced within the manuscript where the authors want the tables to be placed or at the end of the manuscript. The tables must be numbered consecutively according to their appearance in the manuscript using Arabic numbers (1, 2, 3, etc.). Place the table legend that contains the table number above the table and provide a meaningful title for the table contents. Any additional notes should be numbered as superscripts and explained below the table as footnotes.

Figures

High-quality figures can be used in the manuscript. It is recommended to use the minimum number of figures required. Do not duplicate data already present in the text or tables. Submit the figures in their actual size with a label at least 1.5 mm high. The largest size that can be published without reduction is 17.5 cm wide and 22cm tall. The figures can be placed where the authors want them to appear in the manuscript or at the end of the manuscript.

The figures must have legends that are typed double-spaced below the figures containing the figures' numbers and a brief description of the figures that would allow interpretation of

the figures. The figures must be numbered consecutively according to their appearance in the manuscript using Arabic numbers (1, 2, 3, etc.).

Note: color illustrations are accepted if they make an exceptional contribution to the article. Authors will be required to bear the cost of color figures at the cost price.

Proofs

Proof of accepted manuscripts will be returned to the authors. Timely correction of the proof is essential to ensure speedy publication of the article. At this stage, authors may only make minor corrections. Major modifications (i.e. new data, figures, etc)of accepted manuscripts are not accepted. At this point, the author may order reprints.

Responsibilities of Authors

Please see the **Revised Editorial policy**.

Ethical considerations

Please see the **Revised Editorial policy**.

Privacy Statement

The names and email addresses entered in this journal site will be used exclusively for the stated purposes of this journal and will not be made available for any other purpose or to any other party.

Articles

Section default policy

Privacy Statement

The names and email addresses entered in this journal site will be used exclusively for the stated purposes of this journal and will not be made available for any other purpose or to any other party.

TRANSFER OF COPY RIGHT AGREEMENT

In consideration of the *Jordan Medical Journal (J Med J)* taking action in reviewing and editing my submission, the author (s) undersigned hereby transfer(s), assign(s) or otherwise convey(s) all copyright ownership to the *J Med J* in the event such work is published by the *J Med J*.

I (We) can take full responsibility concerning the authenticity of work and data submitted in this paper.

Title:

.....
.....

Date: / /

.....

Author's printed name

Author's signature

Author's printed name

Author's signature

Author's printed name

Author's signature

Author's printed name

Author's signature

Author's printed name

Author's signature

(Use a continuation sheet if necessary for additional signatures)

رقم الإيداع لدى المكتبة الوطنية
(د/2007/3635)
المجلة الطبية الأردنية/ فصلية