

Journal of Education, Health and Sport

**Vol 11 No 2
2021**

formerly Journal of Health Sciences
Open Access

From 2011
eISSN 2391-8306
Formerly ISSN 1429-9623 / 2300-665X

Scientific Council

prof. zw. dr hab. geo. Z. Babiński (Poland), prof. zw. dr hab. med. T. Chumachenko (Ukraine), prof. zw. dr hab. techn. R. Cichon (Poland), prof. zw. dr hab med. N. Dragomiretskaya (Ukraine),
prof. zw. dr hab. med. V. Ezhov (Ukraine), prof. zw. dr hab. geo. J. Falkowski (Poland), prof. zw. dr hab. med. A. Gozhenko (Ukraine), prof. zw. dr hab. geo. M. Grodzynskyi (Ukraine),
prof. zw. dr hab. I. Grygus (Ukraine), prof. zw. dr hab med. A. Gudyma (Ukraine), prof. zw. dr hab. med. S. Gulyar (Ukraine), prof. zw. dr hab. med. W. Hagner (Poland), prof. dr med. M. Hagner-Derengowska (Poland),
prof. zw. dr hab. med. I. Karwat (Poland), prof. zw. dr hab. med. M. Kyrlyuk (Ukraine), prof. zw. dr hab. med. Y. Limansky (Ukraine), prof. zw. dr hab. geo. A. Melnik (Ukraine), prof. zw. dr hab. med. V. Mizin (Ukraine),
prof. zw. dr hab. med. B. Nasibullin (Ukraine), prof. zw. dr hab. geo. O. Obodovskyi (Ukraine), prof. zw. dr hab. med. L. Shafraam (Ukraine), prof. zw. dr hab. med. I. Shmakova (Ukraine),
prof. zw. dr hab. O. Sokolov (Ukraine), prof. zw. dr hab. med. V. Stebiuk (Ukraine), prof. zw. dr hab. S. Yermakov (Ukraine),
prof. dr hab. med. A. Avramenko, doc. PaedDr. Elena Bendiková, PhD. (Slovakia), prof. dr hab. K. Buško (Poland), dr hab. med. E. Gozhenko (Ukraine), prof. dr hab. B. Knapik (Poland), dr hab. R. Muszkieta (Poland),
prof. dr hab. med. W. Myśliński (Poland), prof. dr hab. M. Napierała (Poland), prof. dr hab. M. Pastuszko (Poland), prof. dr hab. K. Prusik (Poland), prof. dr hab. M. Zasada (Poland), prof. dr hab. W. Zukow (Poland),
dr med. L. Butskaia (Ukraine), dr I. M. Batyk (Poland), dr M. Cieślicka (Poland), doc. dr med. V. Cherny (Ukraine), dr med. K. Cywiński (Poland),
dr med. U. Kazmierczak (Poland), dr med. K. Kiczuk (Poland), dr A. Kostencka (Poland), dr Z. Kwaśnik (Poland), dr met. T. Madej (Poland), dr med. E. Mikolajewska (Poland), dr D. Mikolajewski (Poland),
dr med. B. Muszynska (Poland), dr med. A. Nalazek (Poland), dr med. N. Novikov (Ukraine), dr med. K. Nowacka (Poland), dr M. Podhorecka (Poland), dr med. G. Polak (Poland), dr med. P. Prokopczyk (Poland),
dr med. A. Radziminska (Poland), dr med. L. Sierpińska (Poland), dr D. Sinesh (Republic of India), doc. dr A. Skaliy (Ukraine), dr T. Skaliy (Ukraine),
dr B. Stankiewicz (Poland), dr med. E. Treła (Poland)

Editorial Board

Stefan Adamčák (Slovakia), Pavol Bartík (Slovakia), Elena Bend'kova (Czech Republic), Janusz Bielski (Poland), Krzysztof Busko (Poland), Mirosława Cieślicka (Poland), Jerzy Eksterowicz (Poland), Włodzimierz Erdmann (Poland),
Tomasz Frolowicz (Poland), Attila Gilányi (Hungary), Igor Grygus (Ukraine), Halina Gula-Kubiszewska (Poland), Paweł Izdebski (Poland), Sergii Iermakov (Ukraine), Tetiana Jermakova (Ukraine), Jana Jurikova (Czech Republic),
Vlastimila Karaskova (Czech Republic), Jacek Klawe (Poland), Mariusz Klimczyk (Poland), Alicja Kostencka (Poland), František Langer (Czech Republic), Eligiusz Madejski (Poland), Jiri Michal (Slovakia), Ludmila Miklánková
(Czech Republic), Emilia Mikolajewska (Poland), Viktor Miskehenko (Ukraine), Stanisław Moczek (Poland), Mirosław Mrożkowiak (Poland), Radosław Muszkieta (Poland), Anna Nalazek (Poland), Marek Napierała (Poland),
Jerzy Nowocień (Poland), Piotr Oleśniewicz (Poland), Władysław Palićzak (Poland), Wiesława Pilewska (Poland), Mirosława Pridałowa (Czech Republic), Krzysztof Prusik (Poland), Krzysztof Sas-Nawrotelski (Poland), Aleksander Skaliy
(Ukraine), Tetiana Skaliy (Ukraine), Ewa Sokolowska (Poland), Błażej Stankiewicz (Poland), Robert Stepienak (Poland), Aleksander Stuła (Poland), Naoki Suzuki (Japan), Mirosława Szark-Eckardt (Poland), Maciej Świątkowski (Poland),
Hryhorij Tereschuk (Ukraine), Hryhorij Vasjanowicz (Ukraine), Mariusz Zasada (Poland), Tetiana Zavhorodnya (Ukraine), Walery Zukow (Poland), Hanna Zukowska (Poland)

Advisory Board

Zygmunt Babiński (Poland), Yuriy Briskin (Ukraine), Laszlo Csernoch (Hungary), Kazimierz Denek (Poland), Miroslav Dutchak (Ukraine), Karol Gorner (Slovakia), Kazimierz Kochanowicz (Poland), Jerzy Kosiewicz (Poland),
Stanisław Kowalik (Poland), Tadeusz Maszczak (Poland), Mikołaj Nosko (Ukraine), Jerzy Pośpiech (Poland), Eugeniusz Prystupa (Ukraine), Robert Szekliki (Poland), Jitka Ulrichova (Czech Republic).

Reviewers:

prof. zw. dr hab. geo. Z. Babiński (Poland), doc. PaedDr. Elena Bendiková, PhD. (Slovakia), prof. zw. dr hab. med. T. Chumachenko (Ukraine), prof. zw. dr hab. techn. R. Cichon (Poland),
prof. zw. dr hab. med. N. Dragomiretskaya (Ukraine), prof. zw. dr hab. med. V. Ezhov (Ukraine), prof. zw. dr hab. geo. J. Falkowski (Poland), prof. zw. dr hab. med. A. Gozhenko (Ukraine),
prof. zw. dr hab. geo. M. Grodzynskyi (Ukraine), prof. zw. I. Grygus (Ukraine), prof. zw. A. Gudyma (Ukraine), prof. zw. dr hab. med. S. Gulyar (Ukraine), prof. zw. dr hab. med. W. Hagner (Poland),
prof. zw. dr hab. med. I. Karwat (Poland), prof. zw. dr hab. med. M. Kyrlyuk (Ukraine), prof. zw. dr hab. med. Y. Limansky (Ukraine), prof. zw. dr hab. geo. A. Melnik (Ukraine), prof. zw. dr hab. med. V. Mizin (Ukraine),
prof. zw. dr hab. med. B. Nasibullin (Ukraine), prof. zw. dr hab. geo. O. Obodovskyi (Ukraine), prof. zw. dr hab. med. L. Shafraam (Ukraine), prof. zw. dr hab. med. I. Shmakova (Ukraine),
prof. zw. dr hab. O. Sokolov (Ukraine), prof. zw. dr hab. med. V. Stebiuk (Ukraine), prof. zw. dr hab. S. Yermakov (Ukraine),
prof. dr hab. med. A. Avramenko, prof. dr hab. K. Buško (Poland), dr hab. med. E. Gozhenko (Ukraine), prof. dr hab. B. Knapik (Poland), prof. dr hab. R. Muszkieta (Poland), dr med. W. Zukow (Poland),
prof. dr hab. R. Muszkieta (Poland), prof. dr hab. med. W. Myśliński (Poland), prof. dr hab. M. Napierała (Poland), prof. dr hab. M. Pastuszko (Poland), prof. dr hab. K. Prusik (Poland),
dr med. I. M. Batyk (Poland), dr med. L. Butskaia (Ukraine), doc. dr n. med. V. Cherny (Ukraine), dr M. Cieślicka (Poland), dr med. I. Czerwinska Pawluk (Poland), dr biol. S. Dolomatov (Ukraine), dr A. Kostencka (Poland),
dr med. N. Novikov (Ukraine), dr M. Podhorecka (Poland), dr med. A. Radziminska (Poland), doc. dr A. Skaliy (Ukraine), dr T. Skaliy (Ukraine), dr B. Stankiewicz (Poland), dr med. E. Treła (Poland)

Editors-in-Chief

Anatoliy Gozhenko

Marek Napierała

Walerzy Zukow

Co-editors

Iwona Czerwinska Pawluk

Mariusz Klimczyk

Mirosława Cieślicka

Adam Szulc

Secretary

Bartłomiej Niespodziani

© The Author(s) 2021.

This articles is published with Open Access at Journal of Education, Health and Sport formerly Journal of Health Sciences
of Nicolaus Copernicus University in Toruń, Poland

Open Access This articles is distributed under the terms of the Creative Commons Attribution Noncommercial License which permits any noncommercial use, distribution, and
reproduction in any medium, provided the original author(s) and source are credited.



Attribution — You must attribute the work in the manner specified by the author or licensor (but not in any way that suggests that they endorse you or your use of the work).

Noncommercial — You may not use this work for commercial purposes. Share Alike — If you alter, transform, or build upon this work, you may distribute the resulting work only under
the same or similar license to this one.

Declaration on the original version. Because of the parallel version of the magazine publishing traditional (paper) and of electronic (online), Editors indicates that the main version of the
magazine is to issue a "paper"

Zawartość tegoż czasopisma jest objęta licencją Creative Commons Uznanie autorstwa-Użycie niekomercyjne-Na tych samych warunkach 3.0

Redaction, Publisher and Editorial Office

Publisher and Editorial Office

Department of Physical Education,

Faculty of Earth Sciences and Spatial Management,

Nicolaus Copernicus University in Toruń, Poland

Address: Str. Lwowska 1, 87-100 Toruń, Poland

ISSN 2391-8306

Formerly ISSN:1429-9623 / 2300-665X

SUBMISSIONS

- » [Online Submissions](#)
- » [Author Guidelines](#)
- » [Copyright Notice](#)
- » [Privacy Statement](#)
- » [Author Fees](#)

ONLINE SUBMISSIONS

Please provide a Username/Password for Journal of Health Sciences?

[GO TO LOGIN](#)

Need a Username/Password?

[GO TO REGISTRATION](#)

Registration and login are required to submit items online and to check the status of current submissions.

AUTHOR GUIDELINES

Instructions for authors

The quarterly *Journal of Health Sciences* carries and publishing peer-reviewed scientific original articles, review papers and case studies in all areas of medical and biological sciences from basic research to clinical and experimental study in English. The journal is considered as the leading international journal in medical and biological sciences. We publish original scientific studies, review and educational articles, and papers commenting on the clinical, scientific, social, political, and economic factors affecting health. The journal will also publish information materials from the national consultants, materials discussing the activities of the medical Clubs, and news from the medical community.

We also accept conference reports, book reviews and letters to the editor. Each submission is subject to review by selected experts in the subject area. The review process is fully anonymous.

Authors should be submitted to the Editorial Office by online system:

<http://journal.rwu.edu.pl/index.php/JHS/login>

Online Submissions

Already have a Username/Password for Journal of Health Sciences (J Health Sci)?

[Go to Login](#)

Need a Username/Password?

[Go to Registration](#)

Registration and login are required to submit items online and to check the status of current submissions. A cover letter should be included with the manuscript, containing a declaration to the effect that the manuscript has not been previously published or submitted to another journal, signed by all the authors. It should also include written approval from the head of the institution in which the study was conducted.

The text should use a font not smaller than 12 points, and should be double-spaced, with a margin of 2.5 cm on all sides (left, right, top, bottom). The pages should be numbered consecutively.

The title page should contain the title of the paper (in English), full names of the authors, and their full affiliations. At the bottom of the page, the full name, academic degree, and address of the corresponding author should be given (including the telephone number, fax number and/or e-mail address).

The abstract (in English) should be 200-250 words in original papers, or up to 150 words in review papers and case studies. The abstract of an original paper should be adequately structured, i.e. contain the following parts: introduction, aim, materials and methods, results and conclusions. Below the abstract, no more than 5 keywords should be given in English in accordance with the Index Medicus (Medical Subject Reading).

The body text should be organised as follows:

1) in original papers: introduction and aims, materials and methods, results, discussion and conclusions;

2) in review papers: free structure;

3) in case studies: introduction(motivation for the study), case description, discussion of the characteristic symptoms, treatment results etc.

References: References to the works cited should be placed before square brackets, e.g. [1–4, 10, 14]. Do not use automatic numbers for references. The reference section at the end of the paper should be arranged according to the sequence of citations in the body text. In original and review papers, references should be limited to those cited in the text. In case of a book, it is necessary to indicate the title, author(s), publisher, year of publication, volume and issue number, and page numbers. Punctuation should adhere strictly to the example below:

1. Hamano H, Kawa S, Horuchi A et al. High serum IgG4 concentrations in patients with sclerosing pancreatitis. *N Engl J Med* 2001; 344: 732-8.

References to books should give the surnames and first name initials of the first three authors, followed by et al. if there are more than three authors, the title of the book, publisher, and place and year of publication; for edited volumes, the editor's name is given after the title, followed by "ed.", e.g.:

1. Pijls NH, De Bruyne B. *Coronary pressure*. Kluwer Academic Publishers, London 2000.

2. Perri P, Cavaliere F, Botti C et al. *Współczesne leczenie gastroenteropancreatycznych nowotworów*. In: *Update in Neuroendocrinology*. Baldelli R, Casanueva FF, Tamburro G (wyd.), Udine Centro UD 2004; 483-512.

Tables and figures: Tables and figures must not be included in the body text; please only indicate where they should appear in the final printed version. Tables should each be placed on separate pages and numbered consecutively using Roman numerals. Tables should be captioned in English, and should be accompanied by adequate explanatory notes.

Figures:

1) as hard copies (numbered using Arabic numerals, and identified using the names of the authors, paper title, and a "top" marking);

2) in one of the following electronic formats: *.edn, *.tif, *.eps or *.jpg (at a resolution of 300 dpi). Figure captions, in English, should be placed on separate pages. Please do not submit figures in MS Word *.doc files.

When publishing their work, the author(s) should bear in mind the requirements of the Declaration of Helsinki (an international medical ethics act, signed in 1975, which stipulates that it is prohibited to name the patients, give their initials or hospital record numbers). The relevant ethical committee's statement of approval for the study, along with the patients' conscious agreement to participate, should be included in the Materials and Methods section for all papers in which the diagnostic and therapeutic actions do not follow from standard procedures.

For photographs, the patient's written permission to publish must always be obtained.

Please specify the sources of funding for the study (e.g. grants, private sponsors) in a short acknowledgement note below the Discussion section.

Authors of articles presenting results of clinical studies of drugs and medical procedures are expected to describe in detail how the study was financed, what the sponsor's role was in the planning and execution of the study and in the analysis of the results, and what the influence was of the sponsoring institution on the outcome of the study.

In perspective of the topic of the submission, international drug names should be used in the text.

Abbreviations used in the text should be explained at first mention (this also applies to the abstract). Other than in exceptional situations, abbreviations should not be used in the title of the submission.

The results of laboratory studies and the relevant standards and standard deviations should be expressed using SI units.

The editors shall bear no responsibility for the contents of any advertisements or announcements published.

Authors receive no payment for publishing in *Journal of Health Sciences*. Offprints for authors are not produced.

Upon receiving the proofs, the first author (or one of the co-authors) should clear it for publication within 48 hours by contacting the Publisher by electronic means (or by fax). In case a clearance is not submitted within this deadline, the Publisher will assume that the authors endorse the text as is.

For authors the bibliographic and formating standards used for items submitted to the journal (e.g., *Publication Manual of the American Psychological Association*, 5th edition, 2001). It is often helpful to provide examples of the common citation formats for journals and books to be used in submissions. Also identify the types of appropriate Supplementary Files (e.g., data-sets, research instruments, etc.) which authors should be encouraged to upload, in addition to their submission, to enhance readers' engagement with their work.

<http://www.icmje.org>

SUBMISSION PREPARATION CHECKLIST

1. As part of the submission process, authors are required to check off their submission's compliance with all of the following items, and submissions may be returned to authors that do not adhere to these guidelines.

2. The submission has not been previously published, nor is it before another journal for consideration (or an explanation has been provided in Comments to the Editor).

3. The submission file is in LibreOffice, OpenOffice, Microsoft Word, RTF, or WordPerfect document file format.

4. Where available, URLs for references have been provided.

5. The text is formatted; uses a 12-point font; employs italics, rather than underlining (except with URL addresses); and all illustrations, figures, and tables are placed within the text at the appropriate points, rather than at the end.

6. The text adheres to the stylistic and bibliographic requirements outlined in the [Author Guidelines](#), which is found in About the Journal. To the stylistic and bibliographic requirements outlined by the International Committee of Medical Journal Editors (available at <http://www.icmje.org>).

7. If submitting to a peer-reviewed section of the journal, the instructions in [Ensuring a Blind Review](#) have been followed.

8. Suggest Reviewers

9. Suggesting 3 reviewers are Required for Submission.

Please suggest potential reviewers for this submission.

Use the fields below to give us contact information for each suggested reviewer, and please provide specific reasons for your suggestion in the comments box for each person. Please note that the editorial office may not use your suggestions, but your help is appreciated and may speed up the selection of appropriate reviewers.

A* indicates a required field.

Please list the following: Academic Degree(s)/Position/Department/Institution/E-mail Address*

COPYRIGHT NOTICE

CREATIVE COMMONS license

To that end, it provides [SAMPLE COPYRIGHT NOTICE WORDING](#) that can be cut and pasted into the space below for journals that

(a) offer open access.

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.

AUTHOR FEES

Article Publication Fee - Journal of Education, Health and Sport: **200,-PLN**

If the paper is accepted for publication, you will be asked to pay an Article Publication Fee. Please find payment information

Dane szkoly i konta bankowego:

Uniwersytet Kazimierza Wielkiego

ul. Chodkiewicza 30

85-064 Bydgoszcz Poland

NIP 526 26 47 568 REGON 340657695

Predstawiciel Kwestury UKW Angelika Kuczyńska

Tel.: +48 52 34 19 209

<angelika.kuczynska@ukw.edu.pl>

i

<w.makow@wp.pl>.

Po otrzymaniu uплатy Kwestura UKW wystawi Fakturę VAT (Kwestura UKW).

Aby uczelnia mogła wystawić Fakturę VAT za publikację Atutyku w czasopiśmie musi wiedzieć dokładnie takie dane jak:

- dla kogo? Imię Nazwisko albo nazwa firmy i jeżeli prowadzi działalność gospodarczą !

- dokładny adres siedziby czy miejscowości zamieszkania osoby która chce fakturę na opłate 200,- zł za publikację.

- numer identyfikacji podatkowej NIP

- adres do korespondencji - gdzie sama wpłata nie wystarczy do tego aby wystawić fakturę.

Journal of Education, Health and Sport formerly Journal of Health Sciences

Declaration on the original version.

Because of the parallel version of the magazine publishing traditional (paper) and of electronic (online), Editors indicates that the main version of the magazine is to issue a "electronic".

The journal has had 7 points in Ministry of Science and Higher Education parametric evaluation.

Part B item 755 (23.12.2015).

755 Journal of Education, Health and Sport (null) 2391-8306

Deklaracja.

Specyfika i zawartość merytoryczna czasopisma nie ulega zmianie.

Zgodnie z informacją MNSW z dnia 2 czerwca 2014 r., że w roku 2014 nie będzie przeprowadzana ocena czasopism naukowych; czasopismo o zmienionym tytule otrzymuje tyle samo punktów co na wykazie czasopism naukowych z dnia 31 grudnia 2014 r.

ISSN 2391-8306

formerly ISSN: 1429-9623 / 2300-665X

Archives 2011 - 2014

Redaction, Publisher and Editorial Office
Department of Physical Education,
Faculty of Earth Sciences and Spatial Management,
Nicolaus Copernicus University in Toruń, Poland
Address: Str. Lwowska 1, 87-100 Toruń, Poland

Open Access
ISSN 2391-8306
formerly ISSN: 1429-9623 / 2300-665X
Archives 2011 - 2014

<http://journal.rwu.edu.pl/index.php/JHS/issue/archive>

The formerly journal has had 5 points in Ministry of Science and Higher Education parametric evaluation. Part B item 1089 (31.12.2014).

The formerly journal has had 5 points in Ministry of Science and Higher Education parametric evaluation. Part B item 1107 (17.12.2013).

The journal has had 4 points in Ministry of Science and Higher Education of Poland parametric evaluation. Part B item 683 (21.12.2012).

The journal has been approved for inclusion in ERIH PLUS.

The ERIH PLUS listing of the journal is available at

<https://dbh.snsd.uib.no/publications/erihplus/periodical/info?id=485984>

Indexed in Index Copernicus Journals Master List.
<http://journals.indexcopernicus.com/Journal-of-Education-Health-and-Sport,p247822423.html>

ICV2014: 89.51 Standardized Value: 8.27
ICV2013: 7.32
ICV2012: 6.41
ICV2011: 5.48

The InfoBase Index IBI Factor for the year 2015 is 3.56 in InfoBase Index.com.
Website: www.infobaseindex.com

Universal Impact Factor 1.78 for year 2012. (<http://www.ujifactor.org/AppliedJournals.aspx>)

Indexed in Polish Scholarly Bibliography (PBN) (PBN Polska Bibliografia Naukowa) (<https://pbn.nauka.gov.pl/journals/36616>)

is a portal of the Polish Ministry of Science and Higher Education, collecting information on publications of Polish scientists and on Polish and foreign scholarly journals. Polish Scholarly Bibliography is a part of POL-on - System of Information on Higher Education. It is operated by the Interdisciplinary Centre for Mathematical and Computational Modelling, University of Warsaw.



Russian Science Citation Index



Indexed in Index Copernicus Journals Master List.
IC Value 2011 5.48
IC Value 2012 6.41

The journal is indexed in:
InfoSpace - SJIF Scientific Journal Impact Factor

SJIF: 2012: 3.83



АВАТАРЫ
POLISH SCIENTIFIC AND PROFESSIONAL ELECTRONIC JOURNALS

Aneta Drabek i Arkadiusz Palikowski



Główna Biblioteka Lekarska



Czasopisma pełnotekstowe w bazach GBL
<http://bibz.ebsco.com/Titles/SearchResults/4915?SearchType=0&Find=journal+of+health+sciences&GetResourcesBy=QuickSearch&resourceType=Name+allTitles&resourceType=&radioButtonChanged=1>



POPULAR ARTICLES
»[EFFECTS OF TRANSCRANIAL ELECTROALGESIA ON CONDITION OF CEREBRAL HEMODYNAMICS IN PATIENTS WITH THE SYNDROME OF VEGETATIVE DYSTONIA DIFFERENT GENESIS. Влияние транскраниальной электростимуляции на состояние перифрической гемодинамики у больных с синдромом](#)
1836 views since: 2012-01-15
»[ROLE OF THERAPY WITHIN HUMAN BODY SYSTEMS – COMPUTATIONAL APPROACH](#)
9360 views since: 2012-01-19
»[THE INFLUENCE OF PACLITAXEL TREATMENT ON SELECTED BIOCHEMICAL AND MORPHOLOGICAL BLOOD PARAMETERS IN PATIENTS DIAGNOSED WITH BREAST CANCER](#)
8413 views since: 2011-08-21
»[ASSESSMENT OF THE PNF METHOD INFLUENCE ON GAIT PARAMETERS IMPROVEMENT IN PERSONS WITH CEREBRAL PALSY](#)
6799 views since: 2012-01-04
»[EFFECTIVE VS. SPECIFIC APPROACH WITHIN CONTEMPORARY NEUROLOGICAL PHYSIOTHERAPY](#)
3829 views since: 2012-01-04
»[MOTORIC EXERCISE AS THE ELEMENT OF THE NEUROREHABILITATION](#)
3602 views since: 2012-01-30
»[PATHOMORPHOLOGICAL CHANGES ACUTE LUNG INJURY](#)
3062 views since: 2012-05-02
»[FUZZY ONTOLOGICAL KNOWLEDGE REPRESENTATION FOR THE TRAINING OF MEDICAL TERMINOLOGY](#)
2929 views since: 2013-02-24
»[INCIDENCE OF NEUROGENIC HETEROTOPIC OSSIFICATIONS IN PATIENTS WITH NEUROLOGICAL DEFICITS](#)
2700 views since: 2012-05-17
»[EFFECT OF AEROBIC TRAINING ON THE HEALTH OF WOMEN FREQUENTING TO FITNESS CLUBS. Wpływ treningu aerobowego na zdrowie kobiet uczęszczających do klubów fitness](#)
2304 views since: 2013-06-06

Introduction

We hope that a varied program of the **Journal of Education, Health and Sport formerly Journal of Health Sciences** will answer your expectations. We believe that the **Journal of Education, Health and Sport formerly Journal of Health Sciences** will contribute to raising the knowledge, skills and abilities of doctors, therapists, physiotherapists, nurses, psychologists, biologists, researchers, practitioners and health workers interested in rehabilitation, physiotherapy, tourism and recreation.

Journal of Education, Health and Sport formerly Journal of Health Sciences, corresponding to the modern challenges of global health specialists collect articles from those areas of the leading centers of renowned foreign and domestic. Many of them present state of art in their field. This will be particularly valuable for young doctors in the specialization, and students.

Welcome to familiarize yourself with this issue all relevant hazards and health, life and safety at work in tourism, recreation, rehabilitation, physiotherapy, nursing organization to work safely and missions in these conditions, the influence of environmental conditions on public health.

Authors from abroad and the country will present an overview of contemporary challenges and solutions in these areas. The issue concerns the text of the wider work for human health, tourism, recreation, physiotherapy, nursing, wellness and rehabilitation, including the economics of health care.

© The Author(s) 2021.

Faculty of Earth Sciences and Spatial Management,
Nicolae Copernicus University in Toruń, Poland

Wstęp

Wyrażamy nadzieję, że zróżnicowany program **Journal of Education, Health and Sport formerly Journal of Health Sciences** będzie odpowiadał Państwa oczekiwaniom. Wierzymy, że **Journal of Education, Health and Sport formerly Journal of Health Sciences** przyczyni się do podnoszenia wiedzy, kwalifikacji i umiejętności lekarzy, rehabilitantów, fizjoterapeutów, pielęgniarek, psychologów, biologów, praktyków i badaczy zainteresowanych ochroną zdrowia pracowników rehabilitacji, fizjoterapii, turystyki i rekreacji.

Journal of Education, Health and Sport formerly Journal of Health Sciences, odpowiadająca na współczesne światowe wyzwania zdrowotne, gromadzi artykuły specjalistów z tych dziedzin z wiodących, renomowanych ośrodków zagranicznych i krajowych. Wielu z nich przedstawia state of art w swojej dziedzinie. Będzie to szczególnie cenne dla młodych lekarzy w trakcie specjalizacji, oraz studentów.

Mile widziani do zapoznania się z tą problematyką wszystkich zainteresowanych zagrożeniami i ochroną zdrowia, życia i bezpieczeństwa w pracy w turystyce, rekreacji, rehabilitacji, fizjoterapii, pielęgniarskiej organizacją bezpiecznej pracy i misji w tych warunkach, wpływem warunków środowiska na stan zdrowia publicznego.

Autorzy z zagranicy i kraju przedstawią przegląd współczesnych wyzwań i proponowanych rozwiązań w tych dziedzinach. Problematyka tekstu prac dotyczy szeroko rozumianego zdrowia człowieka, turystyki, rekreacji, fizjoterapii, pielęgniarsztwa, odnowy biologicznej i rehabilitacji, również ekonomiki ochrony zdrowia.

Zawartość tego czasopisma jest objęta licencją
Creative Commons Uznanie autorstwa-Użycie niekomercyjne-Na tych samych warunkach 4.0

Content:

Introduction 010-010

Siedlecki Zygmunt, Nowak Karol, Śniegocki Maciej. Neurosurgical departments functioning during the COVID-19 pandemic - report. Journal of Education, Health and Sport. 2021;11(02):11-15. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.001>

<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.001>

<https://zenodo.org/record/4485780>

Nowacka Agnieszka, Śniegocki Maciej, Woźniak-Dąbrowska Kamila, Smuczyński Wojciech. Microvessels in tumor tissue in patients with central nervous system tumors. Journal of Education, Health and Sport. 2021;11(02):16-29. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.002>

<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.002>

<https://zenodo.org/record/4527819>

Ręba Patrycja. Economics in health care. Journal of Education, Health and Sport. 2021;11(02):30-35. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.003>

<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.003>

<https://zenodo.org/record/4528955>

Siedlecki Zygmunt, Shaik Fasi A., Nowak Karol, Grzyb Sebastian, Śniegocki Maciej. Historical overview of cranial bone implants: own material or artificial prostheses - short review. Journal of Education, Health and Sport. 2021;11(02):36-40. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.004>

<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.004>

<https://zenodo.org/record/4529046>

Sierpińska Lidia. Circumstances of infection with HCV in selected Polish provinces. Journal of Education, Health and Sport. 2021;11(2):41-52. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.005>

<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.005>

<https://zenodo.org/record/453996>

Rohovyi Yurii, Tsitrin Wolf, Bilooka Yula, Arkchipova Ludmila, Bilookiy Vyacheslav. Mechanism of influence of molecular hydrogen on the function of the proximal tubule of the nephron in irritatable bowel syndrome. Journal of Education, Health and Sport. 2021;11(2):53-62. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.2.006>

<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.2.006>

<https://zenodo.org/record/4540211>

Ręba Patrycja. Computed tomography - indications and the course of the examination. Journal of Education, Health and Sport. 2021;11(02):63-69. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.007>

<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.007>

<https://zenodo.org/record/4540318>

Nowacka Agnieszka, Woźniak-Dąbrowska Kamila, Smuczyński Wojciech. Functional problems after surgical treatment of spine fractures. Journal of Education, Health and Sport. 2021;11(02):70-80. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.008>

<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.008>

<https://zenodo.org/record/4543494>

Levitsky A. P., Markov A. V., Pupin T. I., Labush Iu. Z., Selivanskaya I. A., Lapinskaya A. P. Therapeutic and preventive effectiveness of oral application of phitogels "Kvertulin", "Biotrit" and "Dubovy" in inflammatory complications in the digestive system of rats treated with thermoperoxide sunflower oil. Journal of Education, Health and Sport. 2021;11(2):81-88. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.2.009>

<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.2.009>

<https://zenodo.org/record/4562970>

Drożak Ireneusz, Pachucka-Włas Elżbieta, Nowosad-Sugier Anna, Drożak Paulina, Drożak Martyna. Analysis of the structure of medical reports concerning hearing loss due to exposure to noise as an occupational disease in Poland in the years 2017-2018. Journal of Education, Health and Sport. 2021;11(02):89-100. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.010>

<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.010>

<https://zenodo.org/record/4568552>

Koloskova Olena, Khilchevska Victoria, Bilyk Galyna. Self-assessment of inters on the efficiency of online preparation for the licensed integrated exam "Krok 3. General medical training" in a pandemic COVID-19 (analysis results of anonymous survey). Journal of Education, Health and Sport. 2021;11(2):101-106. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.2.011>
<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.2.011>
<https://zenodo.org/record/4568925>

Gladchuk I. Z., Herman Yu. V., Hrygurko D. O. Comparative analysis of neonatal complications after cesarean section to M. Stark and modified cesarean section in premature birth and congenital malformations of the fetus. Journal of Education, Health and Sport. 2021;11(2):107-116. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.2.012>
<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.2.012>
<https://zenodo.org/record/4592395>

Chernohorskyi D. M., Chepurnyi Y. V., Vasiliev O. S., Voller M. V., Kopchak A. V. Evaluation of the accuracy of surgical reconstruction of mandibular defects when using navigation templates and patient-specific titanium implants. Journal of Education, Health and Sport. 2021;11(2):117-132. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.013>
<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.013>
<https://zenodo.org/record/4594307>

Mishyna M. M., Hopta O. V., Syrova G. O., Avramenko V. L., Mozgova Yu. A., Malanchuk S. G., Makarov V. O., Dubovyk O. S., Marchenko I. A., Mishyn Yu. M. Assessment of the biological effect of Cu nanoparticles impregnated in polyethylene medical devices combined with the effect of LED radiation of the red and violet spectra on the ability of microorganisms to form biofilms and on daily biofilms. Journal of Education, Health and Sport. 2021;11(2):133-144. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.014>
<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.014>
<https://zenodo.org/record/4606718>

Kuchma Igor L., Gozhenko Anatoliy I., Flyunt Igor-Severyn S., Ruzhylo Sofiya V., Nahurna Yaryna V., Zukow Walery, Popovych Igor L. Role of the autonomic nervous system and lipoperoxidation in immunotropic effects of nitrogenous metabolites in patients with postradiation encephalopathia. Journal of Education, Health and Sport. 2021;11(2):145-155. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.015>
<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.015>
<https://zenodo.org/record/4718643>

Likholetov Y. O. Quality of life of civilian persons with adaptation disorders who have experienced psycho-social stress under the conditions of military conflict. Journal of Education, Health and Sport. 2021;11(2):156-170. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.016>
<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.016>
<https://zenodo.org/record/4768349>

Zavgorodnya N. G., Novikova V. Yu. Prevention method of toric intraocular lens rotation after phacoemulsification of cataract using a standard capsule ring. Journal of Education, Health and Sport. 2021;11(2):171-181. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.017>
<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.017>
<https://zenodo.org/record/4818582>

Zabashta V. F., Fedak B. S. Analysis of indicators of time spent by emergency medical service team in acute coronary syndrome with elevation of *st* segment at the stage of direct stay on call. Journal of Education, Health and Sport. 2021;11(2):182-191. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.018>
<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.018>
<https://zenodo.org/record/4876312>

Droniak M. M. Prevention of postoperative peritonitis and its complications. Journal of Education, Health and Sport. 2021;11(2):192-199. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.019>
<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.019>
<https://zenodo.org/record/4876418>

Trachenko L. V., Tereshchuk N. V., Lopatiuk R. I., Trachenko O. M. Use of information support for marketing in tourist enterprises. Journal of Education, Health and Sport. 2021;11(2):200-207. eISSN 2391-8306. DOI <http://dx.doi.org/10.12775/JEHS.2021.11.02.020>
<https://apcz.umk.pl/czasopisma/index.php/JEHS/article/view/JEHS.2021.11.02.020>
<https://zenodo.org/record/4958675>