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Methodological Errors in Clinical Studies Published by Medical Journals of Ex-Yugoslav Countries

Slobodan M. Jankovic, Izet Masic

Academy of Medical Sciences of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina

Corresponding author: Academician Slobodan M. Janković, MD, DSc. Faculty of Medical Sciences, University of Kragujevac, Svetozara Markovića Street, 69, Kragujevac, 34000, Serbia. E-mail: slobnera@gmail.com. ORCID ID: http://www.orcid.org/0000-0002-1519-8828.

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ABSTRACT

Introduction: There are certain methodological principles that should be inexcusably followed when designing clinical or observational research in order to avoid bias and presentation of results that do not reflect the truth about the phenomenon that is object of the study. Aim: The aim of this study was to compare methodological quality of clinical trials and observational studies published in medical journals from ex-Yugoslav countries indexed in Pubmed/MEDLINE. Methods: Clinical studies published in medical journals of ex-Yugoslav countries were retrieved from the Pubmed/MEDLINE database, and the sample for analysis was randomly chosen from the retrieved publications. Rate of the most common errors in design of clinical/observational studies was established by careful reading of the sampled publications and their checking against predefined criteria. Results: The studies published in two countries that are now member states of European Union (Slovenia and Croatia) have significantly higher citation rates, impact factor and methodological quality scores than studies from other ex-Yugoslav countries. While publications from Croatia show clear improvement trend throughout the last two decades, which is visible also in the last 10 years in Slovenia and Bosnia and Herzegovina, guality of clinical research published in journals from Serbia was stagnating in the same period. Conclusions: There are significant differences in methodological quality and scientometric characteristics of clinical research published in medical journals of ex-Yugoslav countries that could be mitigated by more intensive training of clinical researchers in statistics and research design, as well as by more rigorous editoral practices.

Keywords: Methodological errors, Clinical studies, Research design, Statistical errors.

1. INTRODUCTION

"Most people say that is the intellect which makes a great scientist. They are wrong: it is character."

(ALBERT EINSTEIN)

True knowledge is gained through scientific research. Scientific publishing is one of the most important and influential result of scientist work. Number of publications and their quoting are measures of scientist success while unpublished researches are invisible to the scientific community, and as such nonexistent. Scientific paper by its publication becomes permanent heritage which is subject to review and critique (I). The highest degree of knowledge is the ability to investigate scientific problems. The best way to get to the truth is the knowledge on scientific methods. Finding truth in science is not only ensured by consistent application of the scientific methods. Honesty of scientist who searches for truth is of crucial importance. Also, teamwork today is almost a prerequisite for success in scientific work, so the modern science is multidisciplinary and multi-professional, so that the work resulting from this cooperation is usually signed by several authors. Author(s) signed the scientific work and is fully responsible for all its contents. The question of authorship is of great importance because it is the crucial in the career of a scientist. Scientific publication is

not just a way of scientific communication, but also the basis of the evaluation of scientists. Public disclosure of the results of scientific research is the basic postulates of scientific method and their basis the doctrine of truth. Scientific and professional work is primarily an educational tool and its content can be presented in different ways. Scientific papers and articles are highly specialized manuscripts on research published in indexed scientific journals (I).

There are certain methodological principles that should be inexcusably followed when designing clinical or observational research in order to avoid bias and presentation of results that do not reflect the truth about the phenomenon that is object of the study. The phenomenon under study should be measured by previously validated instruments, the study sample should be of sufficient size to avoid false negative results, certain statistical tests should be used only if their assumptions were met, and caveats of the study should be clearly and frankly stated, so the readers can draw correct conclusions (I). However, although the quality criteria for clinical and observational studies are well known and undisputed, they are still not followed completely, as a number of recent studies have demonstrated (2-4).

Almost three decades passed from dissolution of Yugoslavia, and the states that emerged from its republics followed different economic, cultural and social development pace. The differences are also visible in healthcare and medical science (5-7), and reviewing them gives an opportunity to learn about appropriate and less appropriate governing decisions, and their consequences. Editorial practice of medical journals published in ex-Yugoslav countries and visible internationally is of prime importance for directing and shaping clinical research within the region, and insisting on sound methodological principles could improve its quality and generalizability (8). It is relatively easy to get an insight into scientometric differences among published clinical research studies from various countries, but analysis of their methodological quality is also necessary to understand reasons for these differences and foresee improvement pathways (9).

2. AIM

The aim of this study was to compare methodological quality of clinical trials and observational studies published in medical journals from ex-Yugoslav countries indexed in Pubmed/MEDLINE.

3. METHODS

The studies were retrieved for analysis from the PubMed (MEDLINE) database. The following inclusion criteria defined for each Ex-Yugoslav country separately the pools from which the study samples were extracted: journal article, published in a journal issued in Slovenia, Croatia, Bosnia and Herzegovina, Serbia, Montenegro or North Macedonia, original clinical trial, original observational clinical study, and full text availability. The exclusion criteria were: review articles, animal studies, in vitro studies, modelling studies and case reports or case series. In order to define search strategies, at first the following journals published in each of Ex-Yugoslav countries and indexed in PubMed (MEDLINE) were identified in the National Library of Medicine's Catalogue of journals indexed in MEDLINE (10, 11): Slovenia: Acta Dermatovenerologica Alpina, Pannonica, et Adriatica, Radiology and Oncology, and Zdravstveno Varstvo; Croatia: Acta Medico-historica Adriatica, Acta Dermatovenerologica Croatica, Biochemia Medica, Acta Pharmaceutica (Zagreb, Croatia), Croatian Medical Journal, Acta Clinica Croatica, Psychiatria Danubina and Arhiv za Higijenu Rada i Toksikologiju; Bosnia and Herzegovina: Acta Informatica Medica, Materia Socio-Medica, Medical Arhives, Acta Medica Academica, Medicinski Glasnik, Bosnian Journal of Basic Medical Sciences; Serbia: Acta Chirurgica Iugoslavica, Medicinski Pregled, Vojnosanitetski Pregled, and Srpski Arhiv za Celokupno Lekarstvo; North Macedonia: Prilozi. There was no medical journal from Montenegro indexed in the Pubmed/ MEDLINE. The following search strategy was used for each country separately to implement inclusion and exclusion criteria and select the pool of clinical/observational studies for further analysis: ("title of the journal I" [All Fields] OR "title of the journal 2" [All Fields] OR ...) AND (("observational study" [Publication Type] OR "observational studies as topic" [MeSH Terms] OR "observational study" [All Fields]) OR ("clinical trial" [Publication Type] OR "clinical trials as topic" [MeSH Terms] OR "clinical trial"[All Fields])) Filters: Free full text. The data for Bosnia and Herzegovina were used from our previous study published earlier this year (12).

Size of the study sample for clinical/observational studies (n=43) was calculated on the basis of the following assumptions: rate of inappropriate research design 0.5 (13) and width of the 95% confidence interval \pm 0.15. The formula $n = (1.96)2 \times 4^{*}p^{*}(1-p)/d2$ was used for the calculation, where "n" is the sample size, "p" probability of inappropriate research design and "d" width of the confidence interval (14). Since the studies retrieved by the abovementioned search strategy were numbered orderly in the PubMed database, the study sample of 43 studies was extracted by simple randomization technique, activating for 43 times random number generator in Excel, using formulas RANDBETWEEN (I;202) for Croatia and RANDBETWEEN (1;318) for Serbia. As already mentioned, the sample for Bosnia and Herzegovina was used from our previous study, and all retrieved studies were used for Slovenia and North Macedonia, since their numbers were lower than 43. The extracted clinical/observational studies were analyzed for common errors in design and statistics, as earlier described in the literature (searching for sample size calculations, randomization techniques, assumptions for statistical tests, intention-to-treat analysis, etc.) (15). For the purpose of analysis of the extracted studies, the checklist with 9 questions was prepared (Table 2). The details of the analysis of the extracted studies are shown in the Tables 1 and 2. Number of citations for each study was taken from Google Scholar after performing search with the study title. The results were described by rates and

percentages when categorical, and by means, standard deviations, medians and interquartile ranges, if continuous. Normality of the data distribution was checked by Kolmogorov-Smirnov test, and if not achieved, Kruskal-Wallis non-prametric analysis of variance was used for comparisons among the countries. Values of categorical variables were compared among the Ex-Yugoslav countries by Chi-square test or by Fisher's exact test, if assumptions for the Chi-square test were not met. Association between number of satisfied methodological criteria and journal impact factor, number of citations or time elapsed from the publication date was tested by linear regression. Maximum acceptable probability of null hypothesis was set at 0.05. All calculations were performed by SPSS statistical program, version 18.

4. RESULTS

From the six ex-Yugoslav countries evaluation of methodological errors in clinical studies published by medical journals indexed in Pubmed/MED-LINE database was possible only in four; Montenegro does not have a medical journal indexed in MEDLINE that publishes clinical studies, and North Mace-

donia has one ("Prilozi"), from which in total abstracts of 18 studies were retrieved that fulfilled inclusion criteria (16). However, full text of these 18 studies was not

	Slovenia	Croatia	Bosnia and Herzegovina	Serbia	p*
Failure to specify the inclu- sion and exclusion criteria?	6 (18%)	4 (9%)	7 (16%)	4 (9%)	0.595
Failure to determine and re- port the error of your measurement methods?	11 (32%)	19 (44%)	18 (41%)	26 (60%)	0.006
Failure to specify the exact statistical assumptions made in the analysis?	25 (74%)	22 (51%)	26 (59%)	37 (86%)	0.000
Failure to perform sample size analysis before the study begins?	30 (88%)	37 (86%)	39 (89%)	42 (98%)	0.215
Failure to implement ad- equate bias control mea- sures?	16 (47%)	21 (49%)	26 (59%)	31 (72%)	0.006
Failure to vigorously recruit and retain subjects?	0 (0%)	1 (2%)	4 (10%)	0 (0%)	0.077
Failure to examine for nor- mality of the data?	25 (74%)	21 (49%)	23 (52%)	38 (88%)	0.000
Failure to report missing data, dropped subjects and use of an intention to treat analysis?	4 (12%)	11 (26%)	32 (73%)	31 (72%)	0.000
Failure to point out the weaknesses of your own study?	14 (41%)	12 (28%)	27 (61%)	31 (72%)	0.000
Number of satisfied criteria per study: mean, standard deviation, median, inter- quartile range	5.1 ± 1.7, 5.0, [2.0]	5.5 ± 1.5, 6.0, [2.0]	3.6 ± 1.8, 3.0, [3.0]	3.4 ± 1.1, 3.0, [1.0]	0.000
Number of studies that sat- isfied more than 4 criteria	22 (65%)	32 (74%)	13 (30%)	7 (16%)	0.000

Table 2. Results of the methodological evaluations. * probability of null hypothesis calculated by Chi-square test or Fisher's exact test (if frequencies less than five) for categorical data, and by Kruskal-Wallis non-parametric analysis of variance for continuous data.

available through the Pubmed/MEDLINE, or elsewhere on the Internet (the articles were not assigned with DOI numbers, additionally precluding finding of full texts).

	Slovenia	Croatia	Bosnia and Herzegovina	Serbia	p****
Number of medical journals publishing clinical studies and indexed in MEDLINE*	3	8	6	4	-
Number of retrieved studies	34	202	149	318	-
Size of the evaluated random sample	34	43	44	43	-
Years passed from a study publication (mean, SD**, median, IQR***)	5.3 ± 4.0, 3.5 [6.3]	10.1 ± 6.7, 7.0 [11.0]	4.7 ± 3.2, 4.0 [3.8]	10.0 ± 4.8, 8.0 [9.0]	0.000
Number of citations (mean, SD**, median, IQR***)	8.4 ± 11.7, 4.5 [10.3]	11.2 ± 18.2, 6.0 [7.0]	1.8 ± 1.9, 1.0 [2.8]	2.9 ± 2.5, 2.0 [4.0]	0.000
Impact factor (mean, SD**, median, IQR***)	1.8 ± 1.0, 2.2 [1.9]	1.3 ± 0.9, 1.0 [1.0]	0.9 ± 0.5, 0.9 [1.0]	0.2 ± 0.1, 0.2 [0.2]	0.000
Percent of foreign studies in the sample	59%	44%	52%	0%	-

Table 1. Characteristics of the study samples per country. *Slovenia: Acta Dermatovenerologica Alpina, Pannonica, et Adriatica, Radiology and Oncology, and Zdravstveno Varstvo; Croatia: Acta Medico-historica Adriatica, Acta Dermatovenerologica Croatica, Biochemia Medica, Acta Pharmaceutica (Zagreb, Croatia), Croatian Medical Journal, Acta Clinica Croatica, Psychiatria Danubina and Arhiv za Higijenu Rada i Toksikologiju; Bosnia and Herzegovina: Acta Informatica Medica, Materia Socio-Medica, Medical Arhives, Acta Medica Academica, Medicinski Glasnik and Bosnian Journal of Basic Medical Sciences; Serbia: Acta Chirurgica lugoslavica, Medicinski Pregled, Vojnosanitetski Pregled, and Srpski Arhiv za Celokupno Lekarstvo (the four Serbian journals were indexed in Pubmed/MEDLINE before year 2017, and are not currently indexed). ** standard deviation *** interquartile range **** probability of null hypothesis calculated by Kruskal-Wallis non-parametric analysis of variance

Medical journals indexed in MED-LINE, number of retrieved studies, size of random samples, number of citations, years elapsed from the publication, impact factors of the journals in the year of publication and percent of the samples with authors from foreign countries are shown in the Table I. Characteristics of the study samples per country. Number and percent of the evaluated studies that failed to meet each of the methodological criteria tested, number of the evaluated criteria not satisfied per country and number of studies that satisfied more than 4 criteria per country are presented in the Table 2. References of the analyzed studies from Bosnia and Herzegovina could be found in our previous publication (12), while the references of the studies analyzed from Croatian (17-59), Slovenian (60-92) and Serbian medical journals (93-135) are given on the list at the end of this article.

When explanatory potential of journal impact factor, number of citations and time elapsed from publication in regard to the number of methodological criteria satisfied per study was tested by linear regression, it was not significant in samples of studies published in Slovenia, Bosnia and Herzegovina and Serbia. However, methodological quality of studies published in Croatian medical journals was directly related to impact factor of the journals (F=16.638, p=0.000, R2=0.289) and inversely with the time elapsed from the publication (F=6.404, p=0.015, R2=0.135). Each additional year of the time elapsed from the publication date decreased number of satisfied methodological criteria for 0.084, while every additional unit of impact factor increased number of satisfied criteria for further 0.895 points.

5. DISCUSSION

Scientific research in medicine is the process of systematic study of well-defined aspects of physical, mental and social well-being (I). Scientific research process has several components. These are: the identification of the main research questions, the selection of a scientific approach, study design and data collection, data analysis and reporting on achievements. Writing a paper is a tedious job, however, following the established rules that work not only becomes much simpler, but also more accessible, which often results in the birth of the desire of researchers to write an article. Knowledge of the principles established by the process of scientific research demystifies the process. Decomposition process research into simpler trying to animate all those who can contribute to the advancement of medical science. According to the material that they work on, biomedical journals can be divided into four groups (I): a) Narrow specialized journals; b) General medical journals; c) Classic journals; and d) Primary scientific journals (I).

Narrow specialized journals commonly deal with materials from a more narrow area of research. They are usually oriented towards one segment of medicine, very often this could be a specific organ or disease. These journals usually posses archive features, they are carefully prepared, strictly reviewed and of high scientific value. Nowadays most are issued on a quarter of a month basis, and some every month. The primary scientific journals are a part of the scientific literature and the main source of information. They are serial publications in which, for the first time, "the original research results and reviewed scientific articles" are published (I). Considering that there isn't a monotonous criterion for the classification of these journals, it is hard to establish their exact quantity, but it is assumed that there are around a 150,000 in existence now. According to some authors, the number of journals is doubled every 10 to 15 years, which amounts to an increase of 5% annually. The "Bradford distribution" law states that the most valuable information is published in a relatively small number of journals. According to this law 8,000 primary scientific journals, instead of the 30,000 being published now, would be quite sufficient (I). Many authors agree that the SCI database confirms this rule because in a selection of 4,000 to 5,000 journals it contains a majority of valuable information published worldwide annually.

There are two basic attributes of primary scientific journals: significance and value. We say that it is significant "if it efficaciously transmits scientific information, if it is readily available to scientists and if they read it." (I).

Scientometrics is part of scientology (the Science of Science) that analyzes scientific papers and their citation in the scientific journal selected sample (I). Name bibliometrics in the seventies was introduced to denote a quantitative study of the communication process using mathematical and statistical methods to books and other media of communication. Almost simultaneously, in the countries of the former Eastern Bloc was introduced Scientometrics name derived from the Russian language. More specifically, in 1969 was introduced the name scientometrics relating to scientific field that deals with the study of science as an information process by applying quantitative (statistical) method, and later Tibor Braun (who in 1977 established International Journal Scientometrics), introduces the name Scientometrics (I). Modern Scientometrics is based largely on the work of Derek J. de Solla Price and Eugene Garfield. Garfield founded ISI - Institute for Scientific Information is considered to be the father of scientometrics and methods of evaluation of scientific publications.

Research Methods scientific importance publications include qualitative and quantitative methods and computer analysis approach (I). Garfield has been striving to mathematical representation developed several factors that allow the assessment value and importance of scientific publications, including the most important Impact factor (IF) and the h-index. The most relevant indicators used in the evaluation of scientific research are: a) Impact factor, b) Article citations, c) Journal citations, and d) The number and order of the authors, etc. The best measure of the significance of a journal is the ECHO factor, "which shows how much the published articles from a journal are cited" anf tells us how much the journal is used and how important it is for scientists. The IMPACT factor shows "how much a scientific article in a journal is cited on average (I) and it is very similar to the echo factor, which shows how many articles are cited in a journal" (I). The value of a journal is a completely different question, that is to say the role of information which is published in it for the sake of advancement in science.

The significance and value of primary scientific publications usually go together. It is and unusual occurrence that a small journal should publish an article of importance. That is why "the echo factor can be taken as an approximative indicator of the scientific value of a journal" (I). Croatian authors Zdravko Lackovic at al. estimated that worldwide 10,000 scientific and research publications are published daily from the field of medicine (I, 9). This sky high number is a natural consequence of scientific progress, but also a result of the syndrome "publish or perish", the quantitative instead of the qualitative evaluation of scientific papers. This is why every scientific milieu, no matter how big or small, tries to publish its own medical journal. Often, in the newly initiated journals, not enough attention is paid to the value of the published articles so that they are acceptable on an international level. The articles should be directed towards the worldwide scientific public and composed according to its rules. Another Croatian scientist Vlatko Silobrcic, in one of biomedical research and scientific information, described that "such a journal is the only one that makes sense of publishing, because there is no other way in which a journal could be edited" (I). This is why financing a vast number of "scientific" journals, which do not satisfy international standards with their quality, is just an irrational way of emptying the science budget. In the majority of developed countries on every 1.000 researches there are one to two or more journals that are in the SCI. In ex-Yugoslavia the number is 0.18. Also in developed countries on every 1,000 researchers there is one international journal, and in ex-Yugoslavia there is I (one) international journal approximatelly on every 2,000 to 2,500 researchers. Alongside the development of economy in a country, the rate for the development of science depends also on the specific terms under which scientific research is conducted (I). The scientific productivity of our medical researchers is low. An average researcher publishes a work that is easily available to the international public every 5 years, and the ones from university do so every three to four years. Every 1,000 doctors publish six or seven, and those outside clinics and institutes only I.I international clinical papers annually. These statistics are very poor indeed, since according to the SCI we are lagging behind Austria, approximately 70 times (I). Database Pubmed/Medline as most largest source of deposited biomedical journals contains about 5500 medical journals (9). Before wartime in ex-Yugoslav countries in Pubmed/Medline were deposited several times more than today (9). In Pubmed/ Medline have only 22: (Slovenia-3, Croatia-8, Bosnia and Herzegovina-6, Serbia-4 and North Macedonia-I), which we were included in our meta analysis.

Our study showed that there are significant differences in methodological quality and scientometric aspect of clinical research studies published in ex-Yugoslav countries. The studies published in two countries that are now member states of European Union (Slovenia and Croatia) have significantly higher citation rates, impact factor and methodological quality scores than studies from other countries. While publications from Croatia show clear improvement trend throughout the last two decades, which is visible also in the last IO years in Slovenia and Bosnia and Herzegovina, quality of publications from journals published in Serbia was stagnating in the same period, probably being associated with removal of four Serbian journals from the MEDLINE.

There is striking difference in percent of studies from foreign countries published in medical journals from the region. While almost half of all studies published in medical journals from Slovenia, Croatia and Bosnia and Herzegovina came from countries out of the region of ex-Yugoslav countries, the studies published in Serbian journals were exclusively from domestic authors. This is significant factor that contributed to lower citation rates of studies published in Serbian journals and therefore lower impact factors, since collaborative studies and international collaboration in general clearly increase chances of multiple citing of a published study (136).

It is interesting that there are also some similarities among the countries: inclusion and exclusion criteria were omitted in only a few studies, and almost all studies from all evaluated countries had very low dropout rate; on the other hand, sample siza calculation was omitted in great majority of studies, regardless of a conutry where they were published. Since sufficient power of a clinical study is crucial for avoidance of false negative results (137), significant efforts should be made in future to spread the knowledge and skills of calculating sample size and power of a study for all types of research design. Another significant problem in all analyzed countries was frequent omission of checking whether assumptions of statistical tests were met by a study data, and whether the data were nomally distributed, which should have determined type of statistical tests that could be used for data analysis. Using a statistical test when its assumptions were not met directly gives erroneous results, and all their consequent interpretations would be unsubstantiated and most probably wrong. It is a pity that high quality data, often collected by expensive and elaborious methods, are then processed inappropriately leading to incorrect conclusions (138). Again, in order to prevent waste of precious resources and get the best out of our research, it is neccessary to invest much more in training clinical researchers with statistical skills in close future (139-140). Main limitation of our study is potential for measuring bias, since only two authors from two of the ex-Yugoslav countries were evaluating all retrieved studies. Besides, method of measuring citation rates may have been unreliable, since lack of funding of this study precluded use of specialized and validated citation softwares or paid services of university or national libraries.

6. CONCLUSION

Our study pointed to significant differences in methodological quality and scientometric characteristics of clinical research published in medical journals of ex-Yugoslav countries. Future investments in training of clinical researchers in statistics and research design, as well as more rigorous editorial practices, are necessary to mitigate these differences and guide further progress in clinical research of all ex-Yugoslav countries.

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REFERENCES

- Masic I, Kujundzic E. Science Editing in Biomedicine and Humanities. Avicena. Sarajevo, 2013: 69-94. ISBN: 978-9958-720-49-9.
- Bouça-Machado R, Rosário M, Alarcão J, Correia-Guedes L, Abreu D, Ferreira JJ. Clinical trials in palliative care: a systematic review of their methodological characteristics and of the quality of their reporting. BMC Palliat Care. 2017 Jan 25; 16(I): 10.
- 3. Saltaji H, Armijo-Olivo S, Cummings GG, Amin M, Flores-Mir C. Ran-

domized clinical trials in dentistry: Risks of bias, risks of random errors, reporting quality, and methodologic quality over the years 1955-2013. PloS One. 2017; 12(12): e0190089.

- Stoop R, Clijsen R, Leoni D, Soldini E, Castellini G, Redaelli V, et al. Evolution of the methodological quality of controlled clinical trials for myofascial trigger point treatments for the period 1978-2015: A systematic review. Musculoskelet Sci Pract. 2017; 30: 1-9.
- Milevska Kostova N, Chichevalieva S, Ponce NA, van Ginneken E, Winkelmann J. The former Yugoslav Republic of Macedonia: Health System Review. Health Syst Transit. 2017 May; 19(3): 1-160.
- Cvetkovic A, Cvetkovic D, Stojic V, Zdravkovic N. Length of Hospital Stay and Bed Occupancy Rates in Former Yugoslav Republics 1989-2015. Front Pharmacol. 2016; 7: 417.
- Masic I, Begic E, Zunic L. Scientometric Analysis of Scientific Validity of Medical Archives Regarding Other Medical Journals in Bosnia and Herzegovina. Med Arch. 2016 Feb; 70(1): 18-26. doi: 10.5455/medarh.2016.70.18-26.
- Masic I. Medical Publications and Scientometrics. Journal of Research in Medical Sciences. 2013 Jun; 18(6): 624-630.
- Masic I. How to search, write, prepare and publish the scientific papers in the biomedical journals. Acta Inform Med. 2011 Jun; 19(2): 68-79. doi: 10.5455/aim.2011.19.68-79.
- NLM Catalog: Journals referenced in the NCBI Databases [Internet]. [cited 2020 Apr 11]. Available from: https://www.ncbi.nlm.nih.gov/nlmcatalog/journals
- Mišak A, Petrak J, Peæina M. Scientific biomedical journals in Croatia. Croat Med J. 2002; 43(1): 8-15.
- Jankovic SM, Masic I. Evaluation of Preclinical and Clinical Studies Published in Medical Journals of Bosnia and Herzegovina: Methodology Issues. Acta Inform Med. 2020 Mar; 28(1): 4-11. doi: 10.5455/aim.2020.28.4-11.
- Vesterinen HM, Vesterinen HV, Egan K, Deister A, Schlattmann P, Macleod MR, et al. Systematic survey of the design, statistical analysis, and reporting of studies published in the 2008 volume of the Journal of Cerebral Blood Flow and Metabolism. J Cereb Blood Flow Metab Off J Int Soc Cereb Blood Flow Metab. 2011 Apr; 31(4): 1064–1072.
- 14. Janković S. Dizajn istraživanja. 1st ed. Kragujevac, Serbia.: Medrat; 2016.
- 15. Clark GT, Mulligan R. Fifteen common mistakes encountered in clinical research. J Prosthodont Res. 2011 Jan; 55(1): 1-6.
- Polenakovic M, Danevska L. Medical journals in the Republic of Macedonia after the Second World War. Prilozi. 2011; 32(2): 11-31.
- Mirosevic Skvrce N, Macolic Sarinic V, Mucalo I, Krnic D, Bozina N, Tomic S. Adverse drug reactions caused by drug-drug interactions reported to Croatian Agency for Medicinal Products and Medical Devices: a retrospective observational study. Croat Med J. 2011 Oct 15; 52(5): 604-614.
- Huseidzinović I, Barisin S, Bradić N, Milanović R. Early cardioprotective effect of sevoflurane on left ventricular performance during coronary artery bypass grafting on a beating heart: randomized controlled study. Croat Med J. 2007 Jun; 48(3): 333–40.
- Krepela J, Hosak L, Pachlova B, Hrdlicka M. Maintenance electroconvulsive therapy in schizophrenia. Psychiatr Danub. 2019 Mar; 31(1): 62-68.
- Glavas D, Rumboldt M, Rumboldt Z. Smoking cessation with nicotine replacement therapy among health care workers: randomized double-blind study. Croat Med J. 2003 Apr; 44(2): 219-224.
- 21. Vidović IP, Demarin V, Grubisić G, Kuna K, Huzjan AL. Carotid artery intima thickness and flow velocity after discontinuation of hormone replacement therapy in postmenopausal women: follow-up study. Croat Med J. 2001 Feb; 42(1): 54-57.
- Restek-Petrović B, Gregurek R, Petrović R, Orešković-Krezler N, et al. Social functioning of patients with psychotic disorders in long-term psychodynamic group psychotherapy: preliminary research. Psychiatr Danub. 2014 Jun; 26(2): 122-126.
- Baretić M, Kušec V, Uroić V, Pavlić-Renar I, Altabas V. Glucagon-like Peptide-1 affects taste perception differently in woman: a randomized placebo.controled crossover study. Acta Clin Croat. 2019 Jun; 58(2): 240-248.
- Agnello L, Bellia C, Scazzone C, Bivona G, Iacolino G, Gambino CM, et al. Establishing the 99th percentile for high sensitivity cardiac troponin I in healthy blood donors from Southern Italy. Biochem Medica. 2019 Jun 15; 29(2): 020901.
- 25. Semenič D, Cirman T, Rožman P, Smrke DM. Regeneration of chronic wounds with allogeneic platelet gel versus hydrogel treatment: a prospective study. Acta Clin Croat. 2018 Sep; 57(3): 434-442.
- Sikora M, Včev A, Siber S, Vučićević Boras V, Rotim Ž, Matijević M. The Efficacy of Low-Level Laser Therapy in Burning Mouth Syndrome A Pilot Study. Acta Clin Croat. 2018 Jun; 57(2): 312-315.
- Filipcic I, Milovac Z, Sucic S, Gajsak T, Filipcic IS, et al. Efficacy, Safety and Tolerability of Augmentative rTMS in Treatment of Major Depressive Disorder (MDD): A Prospective Cohort Study in Croatia. Psychiatr Danub. 2017 Mar; 29(I): 31-38.
- 28. Medić A, Jukić T, Matas A, Vukojević K, Sapunar A, Znaor L. Effect of preoperative topical diclofenac on intraocular interleukin-12 concentration

and macular edema after cataract surgery in patients with diabetic retinopathy: a randomized controlled trial. Croat Med J. 2017 Feb 28; 58(1): 49-55.

- Peng S, Ying B, Chen Y, Sun X. Effects of massage on the anxiety of patients receiving percutaneous coronary intervention. Psychiatr Danub. 2015 Mar; 27(1): 44-449.
- 30. Kocak FE, Ozturk B, Isiklar OO, Genc O, Unlu A, Altuntas I. A comparison between two different automated total 25-hydroxyvitamin D immunoassay methods using liquid chromatography-tandem mass spectrometry. Biochem Medica. 2015; 25(3): 430-438.
- 31. Pejović B, Erić-Marinković J, Pejović M, Kotur-Stevuljević J, Peco-Antić A. Detection of acute kidney injury in premature asphyxiated neonates by serum neutrophil gelatinase-associated lipocalin (sNGAL) - sensitivity and specificity of a potential new biomarker. Biochem Medica. 2015; 25(3): 450-4559.
- Karaman Ilić M, Madžarac G, Kogler J, Stančić-Rokotov D, Hodoba N. Intraoperative volume restriction in esophageal cancer surgery: an exploratory randomized clinical trial. Croat Med J. 2015 Jun; 56(3): 290-296.
- 33. Tőkés T, Szentmártoni G, Torgyík L, Kajáry K, Lengyel Z, Györke T, et al. Response evaluation after primary systemic therapy of Her2 positive breast cancer - an observational cross-sectional study. Croat Med J. 2015 Apr; 56(2): 128-138.
- Budak YU, Huysal K, Demirci H. Correlation between mean platelet volume and B-type natriuretic peptide concentration in emergency patients with heart failure. Biochem Medica. 2015; 25(1): 97-102.
- Motal MC, Klaus DA, Lebherz-Eichinger D, Tudor B, Hamp T, Wiegele M, et al. Increased plasma vaspin concentration in patients with sepsis: an exploratory examination. Biochem Medica. 2015; 25(1): 90-96.
- 36. Arif T, Adil M, Singh Sodhi J, Hassan I. Assessment of modified Rodnan skin score and esophageal manometry in systemic sclerosis: a study correlating severity of skin and esophageal involvement by objective measures. Acta Dermatovenerol Alp Pannonica Adriat. 2018; 27(4): 169-173.
- Eraslan D, Ertekin E, Ertekin BA, Oztürk O. Treatment of insomnia with hypnotics resulting in improved sexual functioning in post-menopausal women. Psychiatr Danub. 2014 Dec; 26(4): 353-3557.
- Lima-Oliveira G, Salvagno GL, Lippi G, Danese E, Gelati M, Montagnana M, et al. Could light meal jeopardize laboratory coagulation tests? Biochem Medica. 2014; 24(3): 343-349.
- Sešok S, Bolle N, Kobal J, Bucik V, Vodušek DB. Cognitive function in early clinical phase huntington disease after rivastigmine treatment. Psychiatr Danub. 2014 Sep; 26(3): 239-248.
- Ribaric G, Buchwald J. Gastric band is safe and effective at three years in a national study subgroup of non-morbidly obese patients. Croat Med J. 2014 Aug; 55(4):405-415.
- Karabuva S, Carević V, Radić M, Fabijanić D. The association of ABO blood groups with extent of coronary atherosclerosis in Croatian patients suffering from chronic coronary artery disease. Biochem Medica. 2013; 23(3): 351-359.
- 42. Silic A, Janez A, Tomazic J, Karner P, Vidmar L, Sharma P, et al. Effect of rosiglitazone and metformin on insulin resistance in patients infected with human immunodeficiency virus receiving highly active antiretroviral therapy containing protease inhibitor: randomized prospective controlled clinical trial. Croat Med J. 2007 Dec; 48(6): 791-799.
- 43. Buyukkocak U, Daphan C, Caglayan O, Aydinuraz K, Kaya T, Saygun O, et al. Effects of different anesthetic techniques on serum leptin, C-reactive protein, and cortisol concentrations in anorectal surgery. Croat Med J. 2006 Dec; 47(6): 862-868.
- Matijević R, Grgić O, Vasilj O. Ritodrine in oral maintenance of tocolysis after active preterm labor: randomized controlled trial. Croat Med J. 2006 Feb; 47(1): 25-31.
- Racki S, Zaputović L, Vujicić B, Mavrić Z, Grzetić M, Ravlić-Gulan J. Cardiovascular risk factors and diseases strongly predict hemodialysis treatment outcome in maintenance hemodialysis patients. Croat Med J. 2005 Dec; 46(6): 936-941.
- 46. Petrac D, Radić B, Radeljić V, Hamel D, Filipović J. Ventricular pacing vs dual chamber pacing in patients with persistent atrial fibrillation after atrioventricular node ablation: open randomized study. Croat Med J. 2005 Dec; 46(6): 922-928.
- 47. Ebrashy A, Ibrahim M, Marzook A, Yousef D. Usefulness of aspirin therapy in high-risk pregnant women with abnormal uterine artery Doppler ultrasound at 14-16 weeks pregnancy: randomized controlled clinical trial. Croat Med J. 2005 Oct; 46(5): 826-831.
- 48. Sustić A, Zelić M, Protić A, Zupan Z, Simić O, Desa K. Metoclopramide improves gastric but not gallbladder emptying in cardiac surgery patients with early intragastric enteral feeding: randomized controlled trial. Croat Med J. 2005 Apr; 46(2): 239-244.
- Mirić M, Plavec D. Risk of acute bronchospasm and bronchial hyperreactivity from inhaled acid aerosol in healthy subjects: randomized, double-blind controlled trial. Croat Med J. 2004 Dec; 45(6): 709-714.
- Liscić RM, Brecelj J. Visual evoked potentials in multiple sclerosis patients treated with interferon beta-1a. Croat Med J. 2004 Jun; 45(3): 323-

327.

- Karcioglu O, Topacoglu H, Ayrik C, Ozucelik DN, Soysal S. Prilocaine versus plain or buffered lidocaine for local anesthesia in laceration repair: randomized double-blind comparison. Croat Med J. 2003 Dec; 44(6): 716-720.
- Librenjak D, Situm M, Eterovic D, Dogas Z, Gotovac J. Immunoprophylactic intravesical application of bacillus Calmette-Guerin after transurethral resection of superficial bladder cancer. Croat Med J. 2003 Apr; 44(2): 187-192.
- 53. Caca-Biljanovska NG, V'lckova-Laskoska MT. Management of guttate and generalized psoriasis vulgaris: prospective randomized study. Croat Med J. 2002 Dec;43(6): 707-712.
- Jugovac I, Burgić N, Mićović V, Radolović-Prenc L, Uravić M, Golubović V, et al. Carpal tunnel release by limited palmar incision vs traditional open technique: randomized controlled trial. Croat Med J. 2002 Feb; 43(1): 33-36.
- 55. Gultekin F, Gurbilek M, Vatansev H, Yasar S, Akoz M, Ozturk M. Effect of oral glucose loading on serum gastrin level in pregnant and non-pregnant women. Croat Med J. 2001 Apr; 42(2): 151-155.
- Cavcić J, Turcić J, Martinac P, Jelincić Z, Zupancić B, Panijan-Pezerović R, et al. Metronidazole in the treatment of chronic radiation proctitis: clinical trial. Croat Med J. 2000 Sep; 41(3): 314-318.
- Milicić D, Mladina R, Djanić D, Prgomet D, Leović D. Influence of nasal fontanel receptors on the regulation of tracheobronchal vagal tone. Croat Med J. 1998 Dec; 39(4): 426-429.
- Bedu-Addo G, Rutheford T, Bevan D, Bates I. Splenic lymphoma with villous lymphocytes should be included in the differential diagnosis of massive splenomegaly. Croat Med J. 1998 Dec; 39(4): 412-418.
- Delimar V, Miloš O, Hančević M, Bilić H, Krbot Skorić M, Milivojević I, et al. Factors Contributing to the Reduction of Pain during Electromyography and Nerve Conduction Studies. Psychiatr Danub. 2019 Dec; 31(Suppl 5): 774-780.
- Nezka H, Igor P, Izidor K. Idiopathic pulmonary fibrosis in patients with early-stage non-small-cell lung cancer after surgical resection. Radiol Oncol. 2019 24; 53(3): 357-361.
- 61. Campos MA, Sousa AC, Varela P, Baptista A, Menezes N. Comparative effectiveness of purpuragenic 595 nm pulsed dye laser versus sequential emission of 595 nm pulsed dye laser and 1,064 nm Nd:YAG laser: a double-blind randomized controlled study. Acta Dermatovenerol Alp Pannonica Adriat. 2019 Mar; 28(1): 1-5.
- 62. Granata V, Fusco R, Setola SV, Palaia R, Albino V, Piccirillo M, et al. Diffusion kurtosis imaging and conventional diffusion weighted imaging to assess electrochemotherapy response in locally advanced pancreatic cancer. Radiol Oncol. 2019 19; 53(1): 15-24.
- Stelczer G, Major T, Mészáros N, Polgár C, Pesznyák C. External beam accelerated partial breast irradiation: dosimetric assessment of conformal and three different intensity modulated techniques. Radiol Oncol. 2019 19; 53(1): 123-130.
- 64. Simenc GB, Ambrozic J, Prokselj K, Tul N, Cvijic M, Mirkovic T, et al. Optic nerve ultrasound for fluid status assessment in patients with severe preeclampsia. Radiol Oncol. 2018 26; 52(4): 377-382.
- 65. Besic N, Dremelj M, Pilko G. Locoregional disease control after external beam radiotherapy in 91 patients with differentiated thyroid carcinoma and pT4 tumor stage - a single institution experience. Radiol Oncol. 2018 22; 52(4): 453-460.
- 66. Ivanus U, Jerman T, Fokter AR, Takac I, Prevodnik VK, Marcec M, et al. Randomised trial of HPV self-sampling among non-attenders in the Slovenian cervical screening programme ZORA: comparing three different screening approaches. Radiol Oncol. 2018 14; 52(4): 399-412.
- 67. Kobal B, Noventa M, Cvjeticanin B, Barbic M, Meglic L, Herzog M, et al. Primary debulking surgery versus primary neoadjuvant chemotherapy for high grade advanced stage ovarian cancer: comparison of survivals. Radiol Oncol. 2018 11; 52(3): 307-719.
- 68. Golo D, But-Hadzic J, Anderluh F, Brecelj E, Edhemovic I, Jeromen A, et al. Induction chemotherapy, chemoradiotherapy and consolidation chemotherapy in preoperative treatment of rectal cancer - long-term results of phase II OIGIT-01 Trial. Radiol Oncol. 2018 11; 52(3): 267-274.
- Gavric AU, Ocvirk J, Mekjavic PJ. Ocular Changes in Metastatic Melanoma Patients Treated with MEK Inhibitor Cobimetinib and BRAF Inhibitor Vemurafenib. Radiol Oncol. 2018 Jun; 52(2): 213-219.
- 70. Pekmezci E, Dündar C, Türkoğlu M. A proprietary herbal extract against hair loss in androgenetic alopecia and telogen effluvium: a placebo-controlled, single-blind, clinical-instrumental study. Acta Dermatovenerol Alp Pannonica Adriat. 2018 Jun; 27(2): 51-57.
- 71. Sočan K, Sočan M. Trends in the epidemiology of erysipelas in Slovenia. Acta Dermatovenerol Alp Pannonica Adriat. 2018; 27(1): I-4.
- Grischke E-M, Röhm C, Stauß E, Taran F-A, Brucker SY, Wallwiener D. Electrochemotherapy - Supplementary Treatment for Loco-regional Metastasized Breast Carcinoma Administered to Concomitant Systemic Therapy. Radiol Oncol. 2017 Sep; 51(3): 317-323.
- 73. Khobzey K, Liskova I, Szegedi A, Pavlovsky L, Lunder T, Kingo K, et al. Ef-

fectiveness of adalimumab in the treatment of scalp and nail affection in patients with moderate to severe plaque psoriasis in routine clinical practice. Acta Dermatovenerol Alp Pannonica Adriat. 2017 Mar; 26(1): 11-14.

- 74. Yousefzadeh H, Jabbari Azad F, Banihashemi M, Rastin M, Mahmoudi M. Evaluation of psoriasis severity and inflammatory responses under concomitant treatment with methotrexate plus micronutrients for psoriasis vulgaris: a randomized double blind trial. Acta Dermatovenerol Alp Pannonica Adriat. 2017 Mar; 26(I): 3-9.
- Omersa D, Cufer T, Marcun R, Lainscak M. Echocardiography and cardiac biomarkers in patients with non-small cell lung cancer treated with platinum-based chemotherapy. Radiol Oncol. 2017 Mar 1; 51(1): 15-22.
- Hasanzadeh H, Nasrollahi SA, Halavati N, Saberi M, Firooz A. Efficacy and safety of 5% minoxidil topical foam in male pattern hair loss treatment and patient satisfaction. Acta Dermatovenerol Alp Pannonica Adriat. 2016 Sep; 25(3): 41-44.
- Kravos A, Kračun L, Kravos K, Iljaž R. The Impact of Patient's Socio-Demographic Characterictics, Comorbidities and Attitudes on Flu Vaccination Uptake in Family Practice Settings. Zdr Varst. 2015 Sep; 54(3): 204-211.
- 78. Kasahara N, Imai H, Kaira K, Mori K, Wakuda K, Ono A, et al. Clinical impact of post-progression survival on overall survival in patients with limited-stage disease small cell lung cancer after first-line chemoradiotherapy. Radiol Oncol. 2015 Dec; 49(4): 409-415.
- Vrankar M, Zwitter M, Bavcar T, Milic A, Kovac V. Induction gemcitabine in standard dose or prolonged low-dose with cisplatin followed by concurrent radiochemotherapy in locally advanced non-small cell lung cancer: a randomized phase II clinical trial. Radiol Oncol. 2014 Dec; 48(4): 369-380.
- Goricar K, Kovac V, Dolzan V. Polymorphisms in folate pathway and pemetrexed treatment outcome in patients with malignant pleural mesothelioma. Radiol Oncol. 2014 Jun; 48(2): 163-172.
- El-Khalawany M. Acquired melanocytic nevi in Egyptian patients: a clinicopathological study. Acta Dermatovenerol Alp Pannonica Adriat. 2014 Mar; 23(1): 5-11.
- Matthiessen LW, Johannesen HH, Skougaard K, Gehl J, Hendel HW. Dual time point imaging fluorine-18 flourodeoxyglucose positron emission tomography for evaluation of large loco-regional recurrences of breast cancer treated with electrochemotherapy. Radiol Oncol. 2013; 47(4): 358-365.
- Kmetec A, Hajdinjak T. Evaluation of safety and analgesic consumption in patients with advanced cancer treated with zoledronic acid. Radiol Oncol. 2013; 47(3): 289-295.
- Krhin B, Besic N. Effectiveness of L-thyroxine treatment on TSH suppression during pregnancy in patients with a history of thyroid carcinoma after total thyroidectomy and radioiodine ablation. Radiol Oncol. 2012 Jun; 46(2): 160-165.
- Lewander A, Gao J, Adell G, Zhang H, Sun X-F. Expression of NF-κB p65 phosphorylated at serine-536 in rectal cancer with or without preoperative radiotherapy. Radiol Oncol. 2011 Dec; 45(4): 279-284.
- Sadeghian G, Ziaei H, Nilforoushzadeh MA. Treatment of localized psoriasis with a topical formulation of zinc pyrithione. Acta Dermatovenerol Alp Pannonica Adriat. 2011; 20(4): 187-190.
- 87. Bali G, Schwantzer G, Aberer F, Kraenke B, Aberer E. Discontinuing longterm Iloprost treatment for Raynaud's Phenomenon and systemic sclerosis: a single-center, randomized, placebo-controlled, double-blind study. Acta Dermatovenerol Alp Pannonica Adriat. 2011; 20(1): 13-21.
- Al-Otaibi SR, Zadeh VB, Al-Abdulrazzaq AH, Tarrab SM, Al-Owaidi HA, Mahrous R, et al. Using a 308-nm excimer laser to treat vitiligo in Asians. Acta Dermatovenerol Alp Pannonica Adriat. 2009 Mar; 18(1): 13-19.
- Mayr-Kanhäuser S, Kränke B, Aberer W. Efficacy of octenidine dihydrochloride and 2-phenoxyethanol in the topical treatment of inflammatory acne. Acta Dermatovenerol Alp Pannonica Adriat. 2008 Sep; 17(3): 139-143.
- Mösges R, Brüning H, Hessler H-J, Götz G, Knaussmann H-G. Sublingual immunotherapy in pollen-induced seasonal rhinitis and conjunctivitis: a randomized controlled trial. Acta Dermatovenerol Alp Pannonica Adriat. 2007 Dec; 16(4): 143-148.
- Valkova S. UVB phototherapeutic modalities. Comparison of two treatments for chronic plaque psoriasis. Acta Dermatovenerol Alp Pannonica Adriat. 2007 Mar; 16(I): 26-30.
- 92. Tomazic J, Karner P, Vidmar L, Maticic M, Sharma PM, Janez A. Effect of metformin and rosiglitazone on lipid metabolism in HIV infected patients receiving protease inhibitor containing HAART. Acta Dermatovenerol Alp Pannonica Adriat. 2005 Sep; 14(3): 99-105.
- 93. Stojković A, Simović A, Bogdanović Z, Banković D, Poskurica M. Clinical trial/experimental study (consort compliant): Optimal time period to achieve the effects on synbiotic-controlled wheezing and respiratory infections in young children. Srp Arh Celok Lek. 2016 Feb; 144(1–2): 38-45.
- 94. Pavlović SU, Kirćanski B, Radovanović N, Raspopović S, Jovanović V, Nikčević G, et al. Approach to the Treatment of Atrial Fibrillation in Patients with Cardiovascular Risk Profile: Multicentric International Study. Srp Arh Celok Lek. 2015 Oct; 143(9-10): 551.558.

- Dubovina D, Mihailović B, Bukumirić Z, Vlahović Z, Miladinović M, Miković N, et al. The use of hyaluronic and aminocaproic acid in the treatment of alveolar osteitis. Vojnosanit Pregl. 2016 Nov; 73(11): 1010-1015.
- Stašević-Karličić I, Stašević S, Janković S, Đukić-Dejanović S, Milovanović S. Markers of inflammation as risk predictors of lethal outcome in patients diagnosed with delirium. Vojnosanit Pregl. 2016 Sep; 73(9): 838-843.
- Marinković D, Simin JM, Drasković B, Kvrgić IM, Pandurov M. Efficiency of ultrasound guided lower limb peripheral nerve blocks in perioperative pain management for knee arthoroscopy in children. A randomized study. Med Pregl. 2016 Feb; 69(1-2): 5-10.
- Dukić S, Matijević S, Daković D, Cutović T. Comparison of cefixime and amoxicillin plus metronidazole in the treatment of chronic periodontitis. Vojnosanit Pregl. 2016 Jun; 73(6): 526-530.
- 99. Dimković N, Mitić I, Andrić B, Lilić Havidža B, Jelačić R, Milić N. Complete correction of anemia with RECORMON[®] (ERYTHROPOIETIN β) in patients on chronic hemodialysis. Med Pregl. 2015 Oct; 68(9-10): 324-330.
- 100. Gazivoda D, Pelemiš D, Vujašković G. A clinical study on the influence of suturing material on oral wound healing. Vojnosanit Pregl. 2015 Sep; 72(9): 765-769.
- 101. Folić N, Folić M, Marković S, Andjelković M, Janković S. Risk factors for the development of metabolic syndrome in obese children and adolescents. Srp Arh Celok Lek. 2015 Apr; 143(3-4): 146-152.
- 102. Stojanović N, Bogdanović D. Improvement of sexual function in men with benign prostatic hyperplasia by pharmacologic therapy. Srp Arh Celok Lek. 2014 Oct; 142(9-10): 572-578.
- 103. Plavšić L, Mitrović K, Todorović S, Vuković R, Milenković T, Zdravković D. Glycaemic control and prevalence of hypoglycaemic events in children and adolescents with type I diabetes mellitus treated with insulin analogues. Vojnosanit Pregl. 2014 Sep; 71(9): 817-820.
- 104. Miljković S, Baljozović D, Krajnović D, Tasić L, Sbutega-Milosević G. The impact of education on adolescents' sun behavior: experiences from Serbia. Srp Arh Celok Lek. 2014 Jun; 142(5-6): 330-336.
- 105. Argirović A, Argirović D. Does the addition of Serenoa repens to tamsulosin improve its therapeutical efficacy in benign prostatic hyperplasia? Vojnosanit Pregl. 2013 Dec; 70(12): 1091-1096.
- 106. Jovanović M, Džamić Z, Aćimović M, Kajmaković B, Pejčić T. Usage of GreenLight HPS 180-W laser vaporisation for treatment of benign prostatic hyperplasia. Acta Chir Iugosl. 2014; 61(1): 57-61.
- 107. Micić I, Jeon I-H, Park S-H, Hwa S-S, Chun J-M, Stojiljković P. The effect of short-term low-energy ultraviolet B irradiation on bone mineral density and bone turnover markers in postmenopausal women with osteoporosis: a randomized single-blinded controlled clinical trial. Srp Arh Celok Lek. 2013 Oct; 141(9-10): 615-622.
- 108. Stanković M, Grbesa G, Kostić J, Simonović M, Milenković T, Visnjić A. A preview of the efficiency of systemic family therapy in treatment of children with posttraumatic stress disorder developed after car accident. Vojnosanit Pregl. 2013 Feb; 70(2): 149-154.
- 109. Gasanin E, Dragutinović I, Banković D, Mitrović V. Effects of combination of ATI-antagonist candesartan cilexetil and ACE-inhibitors in patients with congestive heart failure. Srp Arh Celok Lek. 2013 Feb; 141(1-2): 29-34.
- 110. Velicković JV, Hajdarević SA, Palibrk IG, Janić NR, Djukanović M, Miljković B, et al. Routine chest radiographs in the surgical intensive care unit: can we change clinical habits with no proven benefit? Acta Chir Iugosl. 2013; 60(3): 39-44.
- III. Stojković T, Binić I, Tiodorović J. Evaluation of effect of local administration of desoximetasone and ditranol in psoriatic lesion byapplying 20 MHz ultrasound. Med Pregl. 2012 Oct; 65(9-10): 368-372.
- 112. Andrić Z, Randjelović T, Kovčin V, Gutović J, Crevar S, Murtezani Z, et al. [Evaluation of the efficacy and toxicity of protocol cisplatin, 5-fluorouracil, leucovorin compared to protocol fluorouracil, doxorubicin and mitomycin C in locally advanced and metastatic gastric cancer]. Srp Arh Celok Lek. 2012 Jun; 140(5-6): 305-312.
- 113. Brdareski Z, Djurović A, Susnjar S, Zivotić-Vanović M, Ristić A, Konstantinović L, et al. Effects of a short-term differently dosed aerobic exercise on maximum aerobic capacity in breast cancer survivors: a pilot study. Vojnosanit Pregl. 2012 Mar; 69(3): 237-242.
- 114. Petković-Košćal M, Damjanov V, Djonović N. Influence of moderate physical activity on the levels of plasma lipoproteins in subjects with impaired glucose tolerance. Srp Arh Celok Lek. 2012 Feb; 140(1-2): 51-57.
- Nedeljković UD, Krstić NM, Varagić-Marković SL, Putnik SM. Quality of life and functional capacity one year after coronary artery bypass graft surgery. Acta Chir Iugosl. 2011; 58(3): 81-86.
- 116. Djokić G, Lazić D, Nenadović M, Zivković N, Pavićević D, Zorić K, et al. Lamotrigine augmentation in delirium tremens. Srp Arh Celok Lek. 2011 Dec; 139 Suppl 1: 41-45.
- 117. Petrović M, Ilić N, Baskić D. The value of neuroendocrine markers for re-

sponse to therapy and survival in patients with advanced non-small cell lung cancer. Srp Arh Celok Lek. 2010 Feb; 138(1-2): 37-42.

- Nikolić A, Kacar A, Lavrnić D, Basta I, Apostolski S. The effect of benfothiamine in the therapy of diabetic polyneuropathy. Srp Arh Celok Lek. 2009 Dec; 137(11-12): 594-600.
- 119. Stosić B, Stojanović M, Janković R, Radojković M, Ignjatović N. Implications of anesthetic techniques on patients' recovery in laparoscopic cholecystectomy. Vojnosanit Pregl. 2009 Jun; 66(6): 421-426.
- Radosević-Jelić L, Stanković V, Josifovski T, Nikolić V, Popov I, Pesko P. Preoperative chemoradiotherapy in locally advanced esophageal cancer. Acta Chir Iugosl. 2009; 56(4): 83-89.
- 121. Strazmester-Majstorović G, Mitić I, Ilić T, Celić D, Milosević A, Curić S. Evaluation of effects of the intravenous cyclophosphamide treatment of primary glomerulonephritis and the estimation of complications. Med Pregl. 2007; 60 Suppl 2: 62-65.
- 122. Majstorović BM, Radulović RB, Kastratović DA, Djukić VB, Popović NP, Stosić-Divljak S, et al. Hemodynamic effect of local infiltrative 2% lidocaine adrenaline anesthesia in general balanced anesthesia during middle ear surgery. Acta Chir Iugosl. 2008; 55(1): 93-97.
- 123. Soskić L, Milcić B, Milaković B, Davidović L, Vranić I, Simić T, et al. Effect of infusion of hypertonic-hyperoncotic solution on cardiovascular function in surgery of the abdominal aorta during the perioperative period. Srp Arh Celok Lek. 2005 Dec; 133(11-12): 492-497.
- Stojanovic S, Radosvic-Jelic L, Tulic C, Popov I, Babic D, Acimovic M, et al. Radical radiotherapy for localized prostate cancer in elderly. Acta Chir Iugosl. 2005; 52(4): 103-107.
- 125. Celić V, Pencić B, Dekleva M, Dimković S, Kocijancić M. Metoprolol and atenolol in mild-to-moderate chronic heart failure: comparative study. Srp Arh Celok Lek. 2005 Jun; 133(5-6): 242-247.
- 126. Hajduković Z, Jovelić A, Zivotić-Vanović M, Raden S. Influence of orlistat therapy on serum insulin level and morphological and functional parameters of peripheral arterial circulation in obese patients. Vojnosanit Pregl. 2005 Nov; 62(11): 803-810.
- 127. Mesaros S, Stojsavljević N, Dujmović I, Mandić E, Drulović J. Evaluation of the long term effect of mitoxantrone on neurological disability in patients with active multiple sclerosis. Srp Arh Celok Lek. 2004 Aug; 132(7-8): 209-213.
- 128. Martinović Z, Buder N, Milovanović M, Velićković R. Antiepileptic, behavioral, and antidepressant effects of adjuvant lamotrigine therapy in drug-resistant epilepsy. Vojnosanit Pregl. 2004 Oct; 61(5): 485-490.
- 129. Pavlović K, Benc D, Kmezić-Grujin J, Stojiljković J, Cemerlić-Adić N, Miljković T, et al. Fosinopril and amlodipine in the treatment of isolated systolic hypertension. Med Pregl. 2004 Feb; 57(1-2): 45-53.
- 130. Jovanović NC, Dzodić R, Celebić A, Zegarac M, Djurisić I, Stojiljković D. Treatment of postoperative pain in elderly oncology patients with intravenous administration of a 50% glucose solution. Srp Arh Celok Lek. 2003 Feb; 131(1-2): 52-54.
- 13I. Dragović T, Hrvacević R, Ajdinović B, Vujanić S. Efficacy of valsartan in the treatment of persistent microalbuminuria in normotensive patients with type I diabetes. Vojnosanit Pregl. 2003 Oct; 60(5): 555-564.
- 132. Radosević-Jelić L, Stojanović S, Durbaba M, Josifovski J, Krivokapić Z. Carcinoma of the anal canal - results of radical radiotherapy. Acta Chir Iugosl. 2002; 49(2): 79-83.
- 133. Ursulović D, Janosević L, Janosević S. Chronic rhinitis effect of topical administration of corticosteroids on eosinophilic leukocytes. Srp Arh Celok Lek. 2002 Aug; 130(7-8): 243-246.
- 134. Vojvodić NM, Sokić DV, Janković SM, Lević Z. A practical study of the efficacy of a delayed-action preparation of carbamazepine (Tegretol CR 400) in the treatment of patients with partial epilepsy. Srp Arh Celok Lek. 2002 Feb; 130(1-2): 19-26.
- 135. Tasić N, Nesović M, Djurić D, Kanjuh V. Changes in calcium levels in blood and urine during various regimens of table salt intake in patients with essential arterial hypertension. Srp Arh Celok Lek. 2002 Feb; 130(1-2): 7-12.
- 136. Friedmacher F, Pakarinen MP, Rintala RJ. Congenital diaphragmatic hernia: a scientometric analysis of the global research activity and collaborative networks. Pediatr Surg Int. 2018 Sep; 34(9): 907-917.
- 137. Tripathi R, Khatri N, Mamde A. Sample Size and Sampling Considerations in Published Clinical Research Articles. J Assoc Physicians India. 2020 Mar; 68(3): 14-18.
- 138. Mishra P, Pandey CM, Singh U, Keshri A, Sabaretnam M. Selection of appropriate statistical methods for data analysis. Ann Card Anaesth. 2019 Sep; 22(3): 297-301.
- 139. Masic I, Begic E, Donev MD, Gajovic S, Gasparyan YA, Jakovljevic M, Milosevic D. et al. Sarajevo Declaration on Integrity and Visibility of Scholarly Journals. Croat Med J. 2016; 57527-529.
- Mohammadali M. Shoja, Anastasia Arynchyna (Eds.). A Guide to the Scientific Career.Willey Blackwell. London, 2019: 163-178.