

ANALYSIS OF REPRESENTATION OF SCIENTIFIC PAPERS WITH TOPIC OF WINTER SPORTS IN SPORT MAGAZINES

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ABSTRACT: Winter sports are sports considered as most attractive sports all around the world. Visiting mountains gives people feeling of: relaxation, pleasure and it influences on their health and cardio vascular and respirator system. This study included sample subjects of 6 magazines, which are available on the web pages. Magazines from the period of 2009-2019 are taken into consideration i.e. magazines in the last 10 years. **METHODS:** Method of analysis is used for data processing. That is procedure of scientific research by breakdown of complex terms and conclusions on the simplest parts and elements. All magazines are analyzed by years and each paper is analyzed, in detail. Analysis of 6 magazines from different cities of Bosnia and Herzegovina (Sarajevo, Mostar, Travnik, Tuzla and Banja Luka) and one magazine from Croatia (Zagreb), showed that there is small number of papers on winter sports in sport scientific magazines. Most papers on winter sports, was founded in magazine Kinesiology Zagreb and magazine Sport Logia Banja Luka. **CONCLUSION:** Sport presents every aspect of entertainment, fun and play and physical exercise and through contest and competition asks for measurable effect of work i.e. sport result.

Keywords: skiing, sports, nordic skiing, biathlon, health.

INTRODUCTION

Winter sports are sports considered as most attractive sports all around the world. Visiting mountains gives people feeling of: relaxation, pleasure and it influences on their health and cardio vascular and respirator system. Apart from winter sports, which are practiced on mountains, there are also winter sports that are performed in sport halls. Winter sports are known for attractive movements, excitement, dynamics and unpredictable situations. Winter sports include: Alpine skiing, Nordic skiing, biathlon, fast skating, carting, ski jumps, ice hockey, curling, bobsleigh, snowboard etc. Alpine skiing is the most common winter sport. Skiing is a unique activity, which demands high level of preparation, skills and abilities. Every winter sport has its own story, demands, rules, ways of performance, its features etc. This paper will be based on analysis of representation of scientific papers in sport scientific magazines in the area of winter sports. Each winter sport has its history of its creation, its founders, originators etc. People usually practice winter sports as recreational activities, which they perform with pleasure and without any pressure. In order to practice any winter sport, one needs to have adequate equipment, which will prevent any

potential injury. During the years, equipment changed, it is improved, it became more modern, it gives more possibilities, looks better etc. In terms of winter sports, Bosnia and Herzegovina is marked by Winter Olympic Games in 1984. Olympic Games in Sarajevo brought many positive things for winter sport such as: popularity, money, marketing, sport promotion, business collaborations etc. Practicing any sport demands a lot of time and effort, hard work, motivation and will.

METHODS

This study included sample subjects of 6 magazines, which are available on the web pages. Magazines from the period of 2009 -2019 are taken into consideration i.e. magazines in the last 10 years. Those magazines are: Homosporticus Sarajevo, Sport Logia Banja Luka, Sport Logos Mostar, Sport science Educational faculty of symposium sport and health – proceeding books Tuzla, Kinesiology Zagreb. Method of analysis is used for data processing. That is procedure of scientific research by breakdown of complex terms and conclusions on the simplest parts and elements. All magazines are analyzed by years and each paper is analyzed, in detail.

Graph 1. Diagram of selection of studies

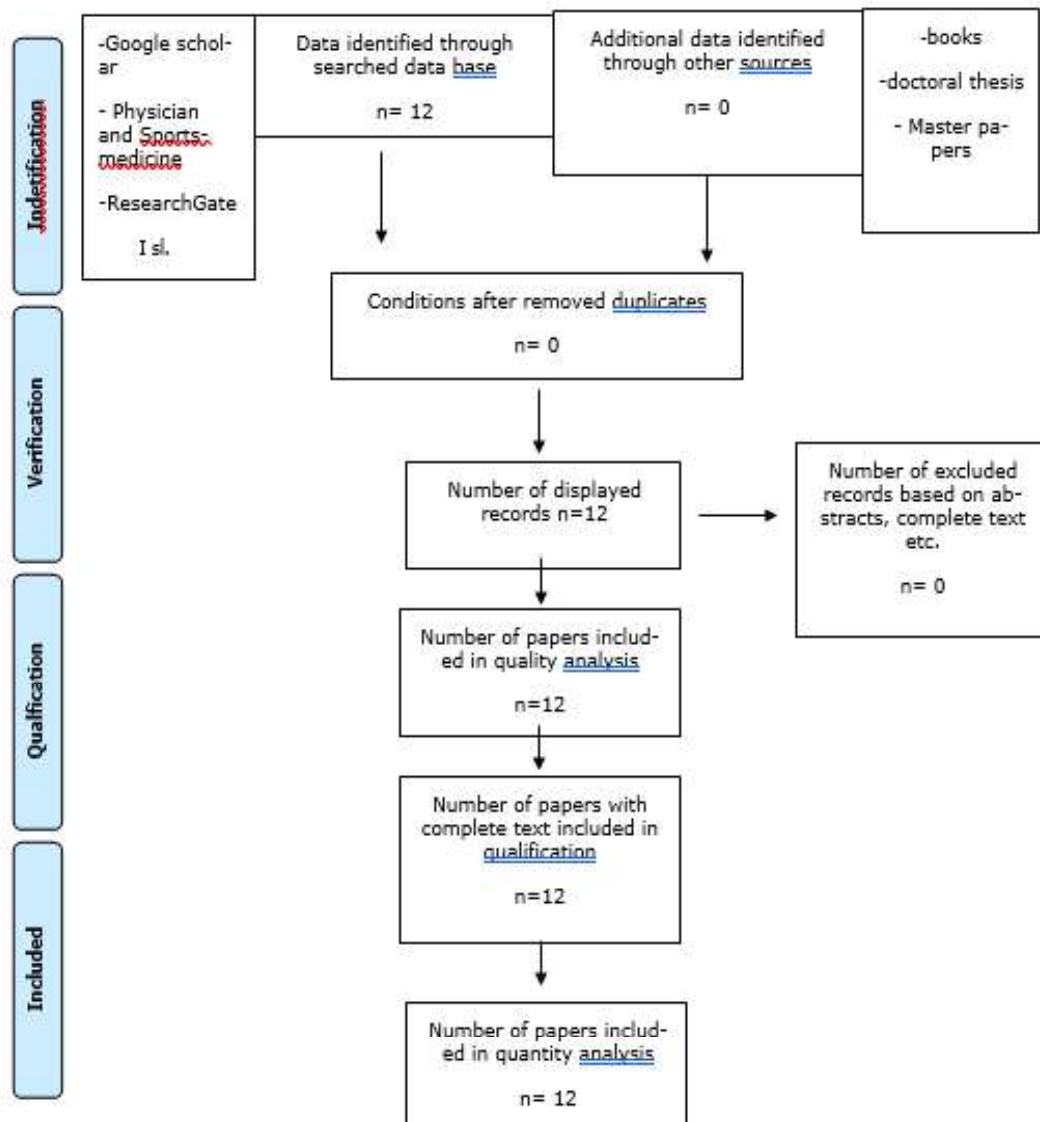


Table 1. Results

Name of the author	Paper	Sample subjects	Description of the study	Results
Stojanović, N., Savić, Z., Stjepanović, V., Lijić, Lj	From telemark to curving	n=2	Study presents historic presentation of <u>recent tech. pivots</u> and practice in skiing, and predictions of future trends in development of Alpine skiing	First skis came from the period of the ice age, 45000 BC, and they had different length, weight and width. Only one stick was used. Telemark and Christiania were basic ski techniques of turning and stopping, which are still developing and improving today. New challenges of technology of ski industry are related to narrower, lighter and faster ski and for combination of shorter and longer skis in training of beginners.

Name of the author	Paper	Sample subjects	Description of the study	Results
Cigrovski, V., Božić, I., Brleđa, N.	Contribution of development of motor skills in acquiring skiing techniques.	n=86	This study determined influence of motor skills on the process of learning o Alpine skiing.	Analysis of results showed how agility has positive effect on learning all examined elements of skiing technique. Results of subjects in test endurance in squats, which is used to assess static strength of legs, has a positive influence on learning curves to the slope, basic curve, and parallel curve. Body height of skiers, beginners, has negative effect on learning skiing.

Name of the author	Paper	Sample subjects	Description of the study	Results
Mijanović, M., Matković, B.	Prediction of the final time in slalom, based o time of the first and the second race	n=27	Measurement of time of the first and the second race.	Rules say that the right of participation in the second race have the first 30 competitors from the first race. <u>There-fore</u> it can be concluded that the first race i.e. race without calculation, all or nothing. Tactics of the second race is significantly different from the first race.

Name of the author	Paper	Sample subjects	Description of the study	Results
Cigrovski, V., Matković, B., Matković, B.	Is the way of teaching of Alpine skiing without plough skiing technique, more efficient?	n=126	Skiing knowledge is determined by testing five skiing techniques, which were evaluated by five independent judges.	In conclusion, according to our observations, in process of teaching of beginners of Alpine skiing, parallel and plough technique of skiing are used for more efficient skiing.

Name of the author	Paper	Sample subjects	Description of the study	Results
Lakota, R., Hročić, D.	Influence of motor skills on basic elements of Alpine skiing of students of Faculty of Sport and Physical Education	n =40	The main goal of this study is to determine influence of motor skills on the success in performance basic elements of Alpine skiing. Sample of variables were groups of 18 tests, which cover explosive and repetitive strength, speed, coordination, balance and flexibility. There were 9 criteria variables.	Results of this study indicate that in process of physical preparation, before getting to the snow, i.e. in skiing training, an important role takes the process of transformation of motor skills.

Name of the author	Paper	Sample subjects	Description of the study	Results
Mujanović, E., Alihodžić, Dž., Mujanović, A., Nožinović, A., Atiković, A., Mehinović, J.	Correlation of body composition with success in performance certain elements of technique of skiing.	n =20	Data processing for this study, is conducted with adequate statistical program. Correlation between variables of examined areas, will be determined by Spearman's coefficient of correlation.	Determination of correlation of examined areas (body compositions, success in performance of basic elements of skiing techniques) by Spearman's correlation analysis of variables for assessment body composition of and variables for assessment performances of basic elements of skiing techniques.

Name of the author	Paper	Sample subjects	Description of the study	Results
Lolić, D., Lolić, N., Basara, S., Čokrović, S.	Canonic relations of motor skills and explosive strength in young skiers	n =26	The aim of is determining statistically significant canonic relations between group of motor variables for assessment of repetitive strength and coordination and group of variables for assessment explosive strength in young skiers.	Results of study indicate (tables 1-6) that between motor skills, as predictor system, and results of explosive strength, as criterion, there is statistically significant relation (P-Level=.000), which indicates high projections of motor dimensions and tests of explosive strength on canonic factor.

Name of the author	Paper	Sample subjects	Description of the study	Results
Kunzell, S., Lukas, S.	Transfer of learned in preparation training of skateboarding on learning snowboarding	n =24	In this study we analyzed possibility and theory base for effects of transfer in field conditions. Students of experimental group participated in 5 trainings of skateboarding. After that they joined the control group of subjects, on 6-day school trip of learning snowboarding	There were no statistically significant differences between groups in initial testing conducted on the second day of, while in the second measurement, conducted on sixth day of the trip, there were statistically significant differences between groups, on behalf of experimental group ($M_{kont}=4,80$, $SD_{kont}=2,10$; $M_{eks.sperim}=6,56$, $SD_{eks.sperim}=2,10$; $T=-1,78$, $df=16$, $p=0,045$, $d=-0,83$).

Name of the author	Paper	Sample subjects	Description of the study	Results
Vodičar, J., Jošt, B.	Correlation between selected kinematic parameters and length of jumps on competition ski flying.	n=40	The aim of this study was to analyze selected kinematic parameters (time of flight, speed on ski jump, speed of reflection, speed of flight, height of flight on 17m of flight, height of flight on 75m, height of flight on 120m, aerodynamic index on 17m of flight, aerodynamic index on 75m, aerodynamic index on 120m of flight.) The best world skiers fliers, who participated on two final competitions of the World cup in skiing flights (Friday and Sunday) on Planika (height if ski jump 215m), Slovenia 2009.	Correlation analysis and univariate analysis of variance were used to determine statistical significance of lower number of correlation among defined kinematic variables and length of jump.

Name of the author	Paper	Sample subjects	Description of the study	Results
Ušaj, A., Burnik, S.	Level of saturation of blood with oxygen and frequency of heart during exercise, measured a month after Alpine expedition on high altitude	n =4	The aim of this study was to determine whether three specific features of adaptation on altitude – changes in body weight, saturation of arterial blood with oxygen and frequency of heart – indicate that process of adaptation ended one month after winning Gasherbrum II peak.	Results showed that body weight was reduced for about 8kg ($p<,05$). A month after winning the peak. A heart frequency remained the same during the testing at absolute intensity in conditions of normoxia (153 ± 19 o/min. Before in relation to 154 ± 15 o/min after expedition) and hypoxia (155 ± 21 o/min before in relation to 158 ± 20 o/min after expedition), but the subjects forget reduced body weight after expedition.

Name of the author	Paper	Sample subjects	Description of the study	Results
Radman, I., Matković, B., Gurmnet, S., Podgac, H.	Effects of program of Alpine skiing on attitude toward Alpine skiing	n =136	The aim of this study was to determine difference in attitude toward Alpine skiing between men and women immediately before (initial testing) and after school of skiing (final testing)	Based on results of final testing, it can be concluded that there is no statistically significant difference in attitude between men and women, which is determined by initial testing.

Name of the author	Paper	Sample subjects	Description of the study	Results
Øyvind Sandbakk (2018)	Practical performance of training of strength for improvement of performances of the world class skiers	n =1	Presented examples give short-term support to the scientific evidence, where training with great strength in preparation period, once a week, is included, in order to keep the strength during the competing period.	Individualized programs for strength, specified for movement with the aim of improvement of technique of skiing, efficient exercise, and delaying of weariness, are used in this study

RESULTS

This scientific magazine included sample of papers from the period of 2009 - 2019 godine, in magazines from 2011-te i 2013, two papers, related to winter sports, are found. Nurković, N., Siniša K., Idrizović, A. (2011). THE EFFICACY OF CLASSIC AND DIRECT METHODOLOGICAL PRACTICE PARTIAL DIFFERENCES ANALYSIS IN ALPINE SKIING LEARNING. and Kovač, S., Lakota, R., Kapetanović, M. (2013). KINEMATIC RESEARCH OF IMPROVEMENT THE FACT THAT SHORTER AND DIRECT SKIING LINE ACHIEVED HIGHER SPEED WHILE PASSING THROUGH SLALOM GATES

Sport Logia - Banja Luka

Sport Logia included sample of papers from the period from 2009-2019. 4 papers, related to winter sports, are found. Stojanović, N., Savić, Z., Stjepović, V., Lilić, Lj. (2017). FROM TELEMAR TO CURVING Cigrovski. V., Božić, I., Prlenda, N. 2012). Contribution of development of motor skills in learning skiing technique Mijanović, M., Matković, B. (2011). Prediction of final time in slalom, based on the first and the second race. Cigrovski, V., Matković Bojan., Matković, B. (2010). Is the way of teaching of Alpine skiing, without application of the plough skiing technique, more efficient?

Sportski Logos - Mostar

Analyzing, collecting and processing data of found papers of scientific magazine „Sport Logos“ in period from 2009-2019, only 1 paper, which was related to winter sports, was analyzed Lakota, R., Hrnjić, D. (2015). INFLUENCE OF MOTOR SKILLS ON BASIC ELEMENTS OF ALPINE SKIING IN STUDENTS OF FACULTY OF SPORT AND PHYSICAL EDUCATION. 7.4 Faculty- Symposium Sport and Health-Proceeding Books Tuzla VI and X International Symposium sport and health, Proceeding Books, Tuzla, are analyzed in this paper. These papers were the only ones available on Internet. On VI International symposium sport and health, 65 papers is published but none of them was related to winter sports. On X International symposium sport and health, 35 papers was published and one paper was related to winter sports. Mujanović, E., Alihodžić, Dž., Nožić-nović Mujanović, A., Atiković A., Mehinović, J. (2017). Correlation of the body composition with the success in performance of certain elements of skiing technique Sport Science-Travnik

One magazine (2017) and one proceeding book (2016) was analyzed. In 2017 magazine no paper or proceeding book related to winter sports, was found. Lolić, D., Lolić, N., Basara, S., Čoković, S. (2016).

Canonical Relations of Motor Skills and Ex-plosive Strength in Young Skiers.

Kinesiology- Zagreb

Papers from the period between 2009 and 2019 are analyzed in this paper. Five papers included topics related to winter sports. Ušaj, A., Burnik, S. (2009). Level of Saturation of Blood with Oxygen and Frequency of Heart During the Exercise, Measured a Month After Alpine Expedition on High Altitude Kunzell, S., Lukas, S. (2011). Transfer of Learned in Preparation Training of Skateboarding on Learning Snowboarding Scientific Vodičar, J., Jošt, B. (2011). Correlation of Selected Kinematic Parameters and Length of Jumps in Competition in Skiing Flights Radman, I., Matković, B., Gurmet, S., Podnar, H. (2014). Effects of Program of Alpine Skiing on Attitudes Toward Alpine Skiing Øyvind Sandbakk (2018). Practical Implementation of Strength Training to Improve the Performance of World Class Cross Country Skiers

DISCUSSION

Analysis of 6 magazines from different cities of Bosnia and Herzegovina (Sarajevo, Mostar, Travnik, Tuzla and Banja Luka) and one magazine from Croatia (Zagreb), showed that there is small number of papers on winter sports in sport scientific magazines. Most papers on winter sports, was founded in magazine Kinesiology Zagreb and magazine Sport Logia Banja Luka. Searching the Internet most magazines were from Kinesiology Faculty of Zagreb and their magazine is called Kinesiology (23 magazines in period from 2009-2019), where 5 magazines on winter sport was found. Faculty of Sport and Physical Education of University of Sarajevo (Homospartacus), also has great number of published magazines (18 papers in period from 2009-2019). However only two papers related to winter sports, were found in these magazines. The least available references related to magazine „Sport Science Travnik“ and „Symposium Sport and Health, Proceeding Books, Tuzla“. Two papers were found in web pages in each of these two magazines from the period from 2009 to 2019., and only two papers were related to winter sports. (one paper from 2016 Travnik and one from the 10th International Symposium of Sport and Health, Tuzla). Analysis of papers showed that all papers were related to skiing. Skiing is one of the most representative winter sports and attracts most authors. In order to write about winter sports, they need to be more promoted in all countries and not only in countries, that are known for top results on competitions, such as: skiing, snowboarding, ski jumps... According to results of this study, magazine Kinesiology-Zagreb has most different papers on topic of winter sports. Some of the topic are: snowboarding, cross-country, ski jumps, Alpine skiing, but most

attention gets Alpine skiing. Main hypothesis is discarded, because there is no great number of papers on topic of winter sports in sport scientific magazines. H1 is confirmed because it is proved the Croatian sport magazine Kinesiology has more papers on topic of winter sports than 5 magazines in Bosnia and Herzegovina. Reason for this can be that Croatia is known for winter sports, it even has the most popular and most successful skiers Ivica and Janica Kostelic. Further research recommends including great number of magazines from other cities of Bosnia and Herzegovina and from Croatia, in order for results to be more realistic. Also, it is recommended inclusion of other countries, in order to analyze representation of papers on topic of winter sports in sport scientific magazines.

CONCLUSION

Sport presents every aspect of entertainment, fun and play and physical exercise and through contest and competition asks for measurable effect of work i.e. sport result. Winter sports are sports which are practiced in winter conditions, on low temperatures, with presence of snow or ice. There is great number of winter sports and the most popular ones are: skiing, snowboarding, ski jumps, biathlon Nordic skiing etc. This study included sample subjects of 6 magazines, which are available on web pages. Magazines in period from 2009 to 2019 i.e. magazines in the last 10 years, are taken into consideration. Those are: Homosporticus Sarajevo, Sport Logia Banja Luka, Sport Logos Mostar, Sport science-Educational Faculty Travnik, Faculty-Symposium Sport and Health-proceeding books Tuzla, Kinesiology Zagreb. General hypothesis H-presents that there is great representation of scientific papers in sport scientific magazines in the area of winter sports is not confirmed.

H1 – shows that higher percentage of representation of scientific papers in sport magazines outside Bosnia and Herzegovina is confirmed. Primary aim of this study is to determine and analyze representation of scientific papers in the area of winter sports, in sport magazines. Magazines from Bosnia and Herzegovina and one magazine from Croatia are analyzed in this paper. All magazines are available on web pages. Results of this study showed proved that there isn't a lot of papers on topic of winter magazines in sport scientific magazines. In six sport scientific magazines there were 14 papers on topic of winter sports, found. Most papers on this topic are found in magazine Kinesiology – Croatia, followed by papers in Sport Logia - Banja Luka. Least references are found related to symposium of sport and health Tuzla. In almost all papers, which were related to skiing, only magazine from Croatia had diverse papers. It is recommended to include more papers in the future studies, in order to get more realistic results.

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