

Influence of Bioenergy on the Results of the Forgotten and Missed Issues of the Hockey Teams of Russia and the USA on the Olympic Games in Pyeongchang.

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ARTICLE INFORMATION

Original Research Paper

Doi:

Received January, 2020

Accepted March, 2020

Keywords:

bioenergy

functional performance

hockey player

team Russia and USA

Olympic games

ABSTRACT

Objective: to substantiate the bioenergy of the hockey teams of Russia and the USA on the result of goals scored and missed at the Olympic Games in Pyeongchang.

Material and methods of research: ascertaining experiment, analysis and synthesis of information, the method of mathematical statistics for the accuracy of Student's t-test, the method of quantum evaluation of the energy and functional state of hockey players of the national teams of Russia and USA at the Olympic Games in Pyeongchang. The quantum method is a contact or remote impact on the energy system of hockey players, used to diagnose, assess the restoration of a functional state during and after a game, during the training and competitive load. It does not matter the distance between the quantum method of a hockey player or a hockey team in the process of recovery of the color power system and functional state [8, 21]. Static analysis involved calculating the validity of Student's t-test, where the differences between the comparative results of the ascertaining experiment were determined. Statistical processing of the results of the hockey team of Russia and USA was carried out according to the Student's t-criterion between the sample averages at the 5% significance level ($P < 0.05$), which is considered to be quite a reliable criterion for pedagogical research. The color power system of teams was determined in points from 1 to 10.

The results of the study. The color grid in the form of vertical, horizontal information of the square and the circumference determines the appropriate levels: low, medium and high level of functionality hockey team in the game. The paper analyzed and established the color grid of the hockey team that needs to be developed in the form of vertical information square, a red circle, promoting effective rehabilitation and functional performance during and after playing matches at the Olympic games in Pyeongchang.

In conclusion, note that a good hockey team at the Olympic games in Pyeongchang will be bright red, red, light red energy potential in the form of a circle or square of vertical information, but not horizontal square with a green, yellow, blue, brown, purple colors of energy, pointing to the vague, fuzzy shape of the boundaries of the grid.

Introduction

Bioenergy activities can deliberately makes a scientific contribution to the application of energy monitoring and evaluation of the functional state and fitness of athletes in various sports. In various sports it was found that increase functionality and sports leads to an increase in the qualitative basis of the color of the grid athletes.

Increase the color of the power system athletes is determined by the transformation of energy in aerobic–anaerobic mode of the neuromuscular system with the effective structure of the spinal canal. Development of a power system depends on the energy transformation of a functional system when performing adaptive physical activity in competitive activity. The most dynamically developing energy system alactate anaerobic work athletes. When performing aerobic exercise, the energy system is changing, and there are significant changes in the interactions of the functional system.

Continuous monitoring of the power system during the exercise and recovery rational forms of energy potential. Energy control in assessing athletic performance can be effectively used in various sports. You need to set clear color reaction parameters of the functional system, and to identify the bioenergetic parameters of fatigue, restore physical activity.

The color grid on the form and content confirmed that the hockey team has high color the grid in that condition, if the players have not injured the spinal canal, musculoskeletal system, neuromuscular system. Hockey players are the red, bright red, light red energy in the form of an information circle.

Have hockey teams at the Olympic games in Pyeongchang on the color grid is determined by the functional status and recovery process in play activity [1-5]. Hockey players of the national teams have different color the grid, the form, content and variety of game result of the hockey game. The color grid in the form of vertical, horizontal information of the square and the circumference determines the appropriate levels: low, medium and high level of functionality hockey team in the game.

The hypothesis of the study. To reach the highest prizes at the Olympic games will contribute only a high level of bio-energy players that have (bright red, red, green) in the form of a vertical square or circle that performs color control energy fitness, special physical fitness.

The purpose of the study: to study the bioenergetics of the hockey team of Russia and the USA on the result of scored and conceded goals at the Olympic games in Pyeongchang.

Material and methods of research: ascertaining experiment, analysis and synthesis of information, the method of mathematical statistics for the accuracy of Student's t-test, the method of quantum evaluation of the energy and functional state of hockey players of the national teams of Russia and USA at the Olympic Games in Pyeongchang. The quantum method is a contact or remote impact on the energy system of hockey players, used to diagnose, assess the restoration of a functional state during and after a game, during the training and competitive load. It does not matter the distance between the quantum method of a hockey player or a hockey team in the process of recovery of the color power system and functional state [8, 21]. Static analysis involved calculating the validity of Student's t-test, where the differences between the comparative results of the ascertaining experiment were determined. Statistical processing of the results of the hockey team of Russia and USA was carried out according to the Student's t-criterion between the sample averages at the 5% significance level ($P < 0.05$), which is considered to be quite a reliable criterion for pedagogical research. The color power system of teams was determined in points from 1 to 10.



Of the information energy forms of the energy system among hockey players, the hockey team determined four levels by the quantum method: low - horizontal square with green-red energy; the middle one is a vertical square with yellow-red energy; high - vertical square with red content; light red, green-red, red-green color energy; and the highest is an ellipsoidal circle with the contents of red, light red, green-red, red-green color energy. In the hockey teams of Russia and USA, the highest energy system was not revealed in the final, but only a high level of the energy system was revealed.

Study participants. The study involved hockey national teams of Russia and USA in the final at the Olympic Games in Pyeongchang.

Organization of the study. The study was conducted at the Olympic Games in Pyeongchang during the hockey final match of the hockey match of Russia and USA. Quantum method was used to determine the color energy system of the teams of Russia and USA.

The Results of The Study and Discussion

Consider the bioenergetic processes of the gaming activities of the national teams of Russia, contributing to the forgotten goals of the USA in the final of the Olympic games Pyeongchang (17.02.2018 g).

Bioenergetic process of play activities of national teams of Russia and USA shows that the hockey team has high color-grid, if the players have netrvmirovannymi the spinal canal, musculoskeletal system, neuromuscular system. While hockey players have red, bright red, light red energy in the form of an information circle.

Identifying the color information of the energy state of the hockey teams is the most important basis for predicting successful competitive activity. Consider the energy condition and results of operations dependent on the color grid, the functional status of hockey teams of Russia and the USA at the Olympic games in Pyeongchang.

Before the match the hockey team it is necessary to consider the color and shape of the various levels of the power system. For effective gaming activities players need to develop the red energy in the form of vertical information square, but rather a form of the red circle, promoting efficient recovery during and after playing matches. It is the high level of work energy centers of the energy system of the spinal canal is the red colored energy (red, light red or bright red colors) in the form of information of a circle, and not the information of the vertical square with the lack of a clear energy boundaries of the hockey team of the United States. It is necessary to determine before the match, during the game, the hockey team

Hockey team USA in the final with the Russian team showed no efficient play at the Olympics, since there was no power border the right side of the square team. It pointed to the exhaustion of the functional system of the hockey team of the United States. The hockey team of Russia at the day of the final hockey match has revealed the energy differences with team USA taking into account the shape information, the energy boundaries of the square and the circle.

After twenty minutes the third time the hockey team of the USA has not changed the color information form the vertical energy of the square, it contained yellow 5.3 points and 4.7 points red the color of energy in the form of "falling rain".

After twenty minutes the third time the hockey team of Russia has changed the color form information power: 5.5 points – the red vertical square consisted of forms 4.5 points green colour circle that shows the reduction of psychophysiological tension, which contributed to the effective performance of the Russian team.



In a hockey game, the Russian team scored four goals with regard to the content of information forms and manifestations of low color grid hockey team USA. Consider the energy-informational reasons scored four goals in a hockey game the team of Russia (see table 1, 2).

The first puck, downtrodden due to the lack of a clear energy boundaries in the form of an information box (in the form of development of a flag in a strong wind), which confirms the low game episode hockey team USA of 9.8 and 8.5 points (2,60 $P < 0,05$). Bioenergy hockey team Russia is set in the forgotten and missed pucks hockey team USA in the final of the Olympic games on the level of the red energy of 8.4 and 7.2 points (2,40 $P < 0,05$) and green energy 1.6 and 2.8 points ($P 3,00 < 0,01$).

The second washer due to a large and a small elliptical circle information power color forms, each indicating a decrease in functional health before the start of the second half of 9.5 and 8.4 points (2,75 $P < 0,01$). Bioenergetics of the hockey team Russia at the forgotten and missed pucks hockey team USA is defined in the final of the Olympic games on the level of the red energy of 6.8 and 5.1 points (4,40, $P < 0,001$), and green energy, 2.2 and 1.2 points ($P 3, 33 < 0.01$) and yellow energies of 1.0 and 3.7 points ($P 4, 50 < 0,001$). The third goal scored into the goal of the US hockey team was promoted by a vague low color form of the energy border of the vertical information square of 9.3 and 6.8 points ($P 4.16 < 0.01$). The bioenergy of the Russian hockey team with forgotten and missed pucks of the US hockey team in the final of the Olympic Games is set at a level of red energy of 8.4 and 6.8 points ($P 3.20 < 0.01$), and green energy of 1.6 and 3.2 points ($P 3, 23 < 0.01$).

The fourth goal scored into the goal of the US hockey team was accompanied by an increase in the green information system of the vertical square, i.e. there was an overvoltage of 9.1 and 6.5 points ($P 4, 33 < 0.001$). The bioenergy of the Russian hockey team with forgotten and missed pucks of the USA hockey team in the final of the Olympic Games is determined at the level of red energy of 8.6 and 7.2 points ($P 2.33 < 0.05$), and green energy of 1.4 and 2.8 points ($P 3, 50 < 0.01$). (see table 1, 2)

Fifteen minutes after the end of the match, the Russian hockey team contained 6.2 points of red color energy and 3.8 points of green color energy in the form of a vertical informational energy square, which indicates a dynamic restoration of the functional system and high athletic form. Fifteen minutes later, the US hockey team contained 6.5 points of red color energy, 2.5 points of green color energy and 1.0 point of purple energy in the form of an elongated ellipsoid circle, which also indicates a dynamic recovery process, but not a high athletic form.

The results of the study of the hockey match show that the hockey teams of Russia and the USA have a reaction of the functional and color power systems to intense game activity and to missed and scored goals. Bioenergy, from a vertical informational energy square turning into an ellipsoid circle among US hockey teams, was noted only at the beginning of the first, second periods after the first, third halves, due to the total fatigue of the functional system.

The energy system of hockey teams has yellow, green, blue, blue, brown color of energy, the shape of the boundaries of the energy system changes, indicating fatigue, overwork and such hockey players often make technical mistakes and get penalty minutes. The US hockey team overstrain manifests itself in the form of yellow, green color energy from two to three of the seven energy centers of the hockey players' energy system. The Russian team has a red color information vertical energy square indicates high functionality.

Table 1 - The bioenergy form of the hockey team of Russia and the USA with goals scored and missed in the final of the Pyeongchang Olympic Games (points)

Bioenergy form		Score Washers	X ± m		t P
Russia	USA	Russia	Russia n=22	USA n= 24	
Vertical information square	Circle	1-st score	9,8 ± 0,4	8,5 ± 0,3	2,60 <0,05
Vertical information square	Circle	2-nd score	9,5 ± 0,3	8,4 ± 0,3	2,75 <0,01
Vertical information square	Circle	3-rd score	9,3 ± 0,4	6,8 ± 0,5	4,16 <0,001
Vertical information square	Vertical information square	4-th score	9,1 ± 0,5	6,5 ± 0,4	4,33 <0,001

Table 2 - Color bioenergy of the hockey team of Russia and the USA with forgotten and missed goals in the final of the Pyeongchang Olympic Games (points)

color bioenergy	Score Russia	X ± m		t P
		Russia n=22	USA n= 24	
Red color Green color	1-st score	8,4 ± 0,3 1,6 ± 0,3	7,2 ± 0,4 2,8 ± 0,2	2,40 <0,05 3, 00 < 0,01
Red color Green color Yellow color	2-nd score	6,8 ± 0,4 2,2 ± 0,2 1,0 ± 0,4	5,1 ± 0,3 1,2 ± 0,2 3,7 ± 0,5	4,40 < 0,001 3, 33 <0,01 4,50 < 0,001
Red color Green color	3-rd score	8,4 ± 0,4 1,6 ± 0,3	6,8 ± 0,3 3,2 ± 0,4	3,20 < 0,01 3, 23 <0,05
Red color Green color	4-th score	8,6 ± 0,5 1,4 ± 0,3	7,2 ± 0,4 2,8 ± 0,3	2, 33 < 0,05 3, 50 < 0,01

The novelty of the study is to define the results:

1) revealed that the energy informational state of the hockey teams is the most important criterion for predicting successful competitive activity; energy control the shape and color of bioenergiesysteme hockey team allows us to estimate the recovery, athletic performance in competitive activities;



2) the form of a circle, vertical, horizontal square containing bright red, red is the color of energy determines the levels of high, medium and low level of development of bioenergy and, accordingly, reveal the content of the state of sport form in competitive activities;

3) form of bioenergy that contains yellow, brown, green is not as "Energomash" and does not indicate a high sport of the hockey team on the day of the hockey game.

The results of the study and the methods of mathematical statistics confirmed the hypothesis of the study and give reason to believe that the bioenergy of the hockey team reflects the high, medium and low readiness, the condition of sports form and a game result for the team.

Discussion.

Status of bioenergy need to own a hockey team at the Olympic games. The Olympic hockey tournament for bioenergy is determined by the readiness of the team to show results and to take high places at international competitions. Bioenergy hockey team depends on the state of fitness and special physical training to achieve high results of the game. At the Olympic games this is the basis that determines the rate and criteria the bioenergy color of the power system players, competing for medals in the Olympic games.

In the study of bioenergiesysteme Volnih DU, Lapshina EA noted that the energy of the athletes determines the condition of sports form through the development of aerobic-anaerobic mechanism of energy supply in the performance of special physical exercise in competitive activity [6].

The study Gubanova, L. S. demonstrates and proves that high athletic performance corresponds to a high level of special physical fitness, developing the power grid of the Central nervous, neuromuscular and functional performance of athletes. The author notes that a certain level of functional readiness, corresponds to a certain level of power system athletes. [8].

In the study of bioenergy athletes in numerous studies it is noted that the energy possibilities need to be explored during the whole competition period. The power system is changing and functional state of athletes on the day of competition. The power system is different in content, form and degree of manifestation. Bioenergy athletes is a diagnostic basis in predicting success or failure in competitive activities [11; 15].

In many scientific studies, the authors proved that bioenergiesysteme athletes has an impact on the result of competitive activity, and has a diagnostic value in determining fitness level and status functional performance of athletes [20].

The analysis of scientific studies shows that the energy of the players is an important indicator of the success of competitive activity. This confirms Belousova N. A. and co-authors that the energy potential of the players is interconnected with the grid and functionality in the education of physical and motor qualities. The co-authors point out that insufficient level of special physical preparedness is reflected in the energy development of athletes [2].

In the scientific work Brooks, G. determined the relationship between characteristics of the power system and education of special physical qualities of athletes [1].

In the study of bioenergy athletes Volkov, N. I. proved correlation and identified positive correlations between the different levels of the power system of athletes in competitive activity [3, 4].

In the study, R. V. Tambovtseva when studying bioenergetic parameters after test physical activity after a three-day fasting have established that substrate-energy malnutrition affects energoobmen athletes[23, 24].

Vysheoboznachennoy the results of numerous studies broaden and complement the bioenergetic approach in sports activities our studies [16, 18] about the need to monitor and account for the grid athletes, not only in determining functional readiness to show high achievements, but to see the result of competitive activity through energy diagnostic and prognosis.

Our study is associated with the fact that the absence of energetically–diagnostic monitoring of the power system athletes will not contribute to the energy forecasting sport results in competitive activity. In this case the quantum method in the study of bioenergiesysteme, functional status, recovery processes, the state of sports form of sportsmen will increase the effectiveness of competition [12; 21].

With the results of the above studies agree and confirm that bioenergiesysteme athletes is an important factor, which is still insufficiently applied in sports practice, as there is no scientific and theoretical knowledge from the experts in this field. The results of our study confirm that the higher the level of functional efficiency, the higher the level of development of the energy system of athletes [23].

The prospect of further study and extension of the research topic "bioenergiesysteme in sports" will contribute to the operational monitoring of the functional state restoration processes. While increasing physical activity and sport results in competitive activity energy method pridetsya premature fatigue, overwork, overexertion injuries in competitive activities of sports teams [9].

The study of bioenergiesysteme athletes will allow the prediction to be realized in high sport results effectively to determine the functional prelaunch readiness on the day of competition. The study will contribute to the development of a scientific direction in enhancing the effectiveness of training and competitive process of athletes in cyclic, acyclic and mixed sports [22].

Insights

1. Productive ice hockey team that took first places at the Olympic games in Pyeongchang will be bright red, red, light red energy potential in the form of a circle or square of vertical information, but not horizontal square with a green, yellow, blue, brown, purple colors of energy, pointing to the vague, fuzzy shape of the boundaries of the grid.

2. The hockey team green, red, yellow, dark green color energy in the form of information energy vertical of the square, not having a clear energy boundaries, the low functionality of the team. Energy information state hockey teams is the most important criteria in the prediction of competitive activity

3. In the power of the hockey teams there is yellow, green, blue, blue, brown energy, the shape of the boundaries of the grid, indicating fatigue, overwork and such players often make technical mistakes and get penalties. The hockey team USA strain shows as yellow, green color energy two to three of the seven energy centers of the power system players.

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