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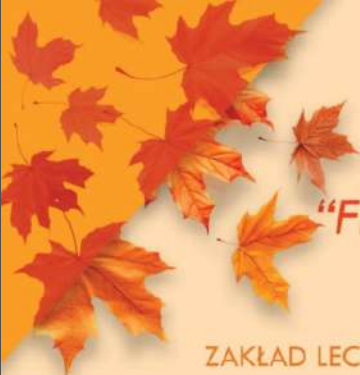
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The fartlek exercise method for improving cardiac, lung and anaerobic endurance (UNY indoor hockey athlete)

Metoda ćwiczeń fartlek do poprawy wytrzymałości sercowo-oddechowej oraz wytrzymałości beztlenowej (hokeiści halowi UNY)

Agus Priyadi^(A,B,C,D,E,F,G), Danarstuti Utami^(B,C,D), Bimo Alexander^(E,F), Khusnul Khotimah^(B,F)

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Abstract

The purpose of this study is to ascertain how fartlek training affects men's indoor hockey athletes at Yogyakarta State University in terms of improving their anaerobic and cardio-pulmonary endurance. This kind of study employs an experimental design with a single group pretest-posttest methodology. There were twelve male indoor hockey players from UNY who made up the study's population. This study's method of gathering data is an experiment. The 2.4 km running test apparatus measures anaerobic endurance with the RAST test and heart-lung endurance with the Cooper test technique. The t-test was utilized in this study's data analysis, specifically to compare the experimental group's pretest and posttest findings. The fartlek training approach on enhancing heart lung endurance has a determined t value of 4.007 and t table of 2.20 at a 5% significant level of 2.20 based on data from the t-test analysis between pretest and posttest. There is a significant difference since the computed t value of 4.007 > t table of 2.20 and the p value of 0.002 indicate that the p is less than 0.05. Based on the average heart lung endurance capacity data, the average pretest value was 12.58 and the average posttest value was 11.31. This indicates that there was an increase in heart lung endurance of 1.27 / 10.09% because the average pretest value was higher than the average posttest value. Additionally, at a significance level of 5%, the t table value df = 11 at 2.20 indicated the findings of the second analysis, which examined the relationship between the fartlek training method's pretest and posttest on improving anaerobic endurance. The value of 22.951 was computed for this study. The computed t value is 22.951 > t table is 2.20, and the p value is 0.000, indicating a significant difference since p < 0.05. According to the average value of anaerobic endurance ability, there is an increase in anaerobic endurance of 110.87 / 6.33%. The average pretest value is 305.16, and the average posttest value is 416.03. This is because the average pretest value is less than the average posttest value. Thus, it can be said that Yogyakarta State University men's indoor hockey players benefit from the fartlek training approach in terms of improving their anaerobic and cardiovascular endurance. There is a significant difference since p < 0.05. According to the average value of anaerobic endurance ability, there is an increase in anaerobic endurance of 110.87 / 6.33%. The average pretest value is 305.16, and the average posttest value is 416.03. This is because the average pretest value is less than the average posttest value. Thus, it can be said that Yogyakarta State University men's indoor hockey players benefit from the fartlek training approach in terms of improving their anaerobic and cardiovascular endurance. There is a significant difference since p < 0.05. According to the average value of anaerobic endurance capacity, there is an increase of 110.87 / 6.33% in anaerobic endurance between the pretest average value of 305.16 and the posttest average value of 416.03. This is because the pretest average value is less than the posttest average value. Thus, it can be said that Yogyakarta State University men's indoor hockey athletes benefit from the fartlek training approach by developing their anaerobic and cardio-pulmonary endurance. Consequently, there is a 110.87 / 6.33% improvement in anaerobic endurance. Thus, it can be said that Yogyakarta State University men's indoor hockey players benefit from the fartlek training approach in terms of improving their anaerobic and cardiovascular endurance.

Keywords

fartlek exercise method, cardiac pulmonary endurance, and anaerobic endurance

Streszczenie

Celem niniejszego badania jest określenie wpływu metody treningu fartlek na zwiększenie wytrzymałości kardiopulmonarnej i beztlenowej u męskich hokeistów halowych Uniwersytetu Stanowego w Yogyakarta. Badanie ma charakter eksperymentalny i wykorzystuje metodę badawczą pretest - posttest z jedną grupą. Populację stanowią męscy hokeiści halowi UNY, łącznie 12 osób. Technika zbierania danych w tym badaniu to testy. Instrumentem testu biegowego na dystansie 2,4 km jest metoda testu Coopera, służąca do mierzenia wytrzymałości sercowo-płucnej, oraz test RAST do mierzenia wytrzymałości beztlenowej. Analizę danych przeprowadzono za pomocą testu t, polegającego na porównaniu wyników pretestu i posttestu grupy eksperymentalnej. Na podstawie danych z analizy testu t między pretestem a posttestem, metoda treningu fartlek w zwiększaniu wytrzymałości sercowo-płucnej wykazała wartość obliczoną na 4,007 przy t tabeli df = 11 na poziomie istotności 5% wynoszącym 2,20. Obliczona wartość t wynosi 4,007 > 2,20 z tabeli t, a wartość p = 0,002, co oznacza, że istnieje istotna różnica. Biorąc pod uwagę wyniki średniej zdolności wytrzymałości sercowo-płucnej, średnia wartość pretestu wynosiła 12,58, a średnia wartość posttestu 11,31, co oznacza wzrost wytrzymałości sercowo-płucnej o 1,27/10,09%. Ponadto wyniki drugiej analizy, test t między pretestem a posttestem metody treningu fartlek w zwiększaniu wytrzymałości beztlenowej, wykazały obliczoną wartość t wynoszącą 22,951 przy wartości tabeli df = 11 na poziomie istotności 5%, czyli 2,20. Obliczona wartość t wynosi 22,951 > 2,20 z tabeli t, a wartość p = 0,000, co oznacza, że istnieje istotna różnica. Biorąc pod uwagę średnią wartość zdolności wytrzymałości beztlenowej, średnia wartość pretestu wynosi 305,16, a średnia wartość posttestu 416,03, ponieważ średnia wartość pretestu jest < średniej wartości posttestu, co oznacza wzrost wytrzymałości beztlenowej o 110,87/6,33%. W związku z tym można stwierdzić, że metoda treningu fartlek wpływa na zwiększenie wytrzymałości kardiopulmonarnej i beztlenowej u męskich hokeistów halowych Uniwersytetu Stanowego w Yogyakarta. przestrzennego widzenia uzyskała najniższą ocenę, ze średnią 3,42 (wysoka). Drugą najniższą jest inteligencja muzyczna z średnią oceną 3,56. Inteligencja logiczno-matematyczna, werbalno-językowa i intrapersonalna uzyskały oceny podobne do wysokiej kategorii, odpowiednio 4,00, 3,84 i 3,91. Wnioski. Wyniki badań mogą być wykorzystane przez sektor programów nauczania, dyrektorów szkół oraz inne organizacje powiązane, by wspierać nauczycieli wychowania fizycznego, szczególnie w integracji inteligencji przestrzenno-wizualnej i muzycznej, w szkoleniach dotyczących wdrażania różnorodnych inteligencji w procesie nauczania. Na podstawie wyników badań zaleca się dalsze badania nad integracją różnorodnych inteligencji w edukacji fizycznej.

Słowa kluczowe

metoda ćwiczeń fartlek, wytrzymałość serca i płuc, wytrzymałość beztlenowa

Introduction

Sport is regular and planned physical activity performed deliberately by individuals to enhance functional capacity and fitness. Hockey is a sport played between two teams where each player using a curved stick to hit, control, and guide the ball into the opponent's goal [1]. In Indonesia, the sport of hockey is divided into two categories, namely indoor hockey and field hockey. Indoor hockey is a game consisting of two teams played indoors, where each team consists of six players and each player uses a stick to dribble the ball. The development of the sport of indoor hockey can be seen from the holding of various indoor hockey championships both domestically and abroad. Likewise, Yogyakarta State University has always actively participated in various hockey championships, such as the DIY Hockey Championship, between universities throughout Indonesia, and succeeded in winning 1st place in the National Championship (KEJURNAS) for indoor hockey, KEMENPORA Jakarta Cup 2008, 2009, and 3rd place in field hockey, between universities in Indonesia in 2010, but from 2013 until now the Yogyakarta State University men's indoor hockey team failed to win. Based on the results of observations made in the field, this is due to the lack of physical condition training provided, the lack of awareness of UNY men's room hockey athletes regarding the importance of physical condition training, especially heart lung endurance and anaerobic endurance, and the lack of attendance at training by UNY men's indoor hockey athletes when they are not competing, meaning that UNY men's indoor hockey athletes practice diligently only before competitions. Judging from the length of the match, endurance and concentration are very necessary in indoor hockey, especially cardio-pulmonary endurance and anaerobic endurance. This research refers to research conducted by Aditya and Eko, namely the influence of fartlek and cross country training on Vo2Max in Indonesian Technocrat University Futsal Athletes. This research aims to determine the effect of fartlek and cross country training on the VO₂Max of Indonesian Technocrat University Futsal Athletes. The technique used is a test [2]. Endurance and concentration are very necessary in outdoor hockey, especially cardio-pulmonary endurance and anaerobic endurance. This research refers to research conducted by Aditya and Eko, namely the influence of fartlek and cross country training on Vo2Max in Indonesian Technocrat University Futsal Athletes. This research aims to determine the effect of fartlek and cross country training on the VO₂Max of Indonesian Technocrat University Futsal Athletes. The technique used is a test [2]. Endurance and concentration are very necessary in outdoor hockey, especially cardio-pulmonary endurance and anaerobic endurance.

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Materials and methods

This study is an experimental research, which aims to validate theories and underlying methods through creation and manipulation by researchers [3]. This research was carried out on the FIK UNY hockey field. The study's population consisted of 12 male outdoor hockey athletes from UNY. The design of this research is one group pretest-posttest design [11]. The design form is as follows:

$$A1 - B - A2$$

Information

A1: Initial tests include cardiac pulmonary endurance and anaerobic endurance

B: Fartlek training treatment

A2: The final tests include cardiac pulmonary endurance and anaerobic endurance

From the research design above, all populations were given an initial test to measure heart lung endurance and anaerobic endurance, then given the fartlek training method for eight weeks with a training frequency of three times a week. Then a final test of cardiac pulmonary endurance and anaerobic endurance is carried out to find out the results.

Research result and discussion

The results of research regarding the fartlek training method to increase heart lung endurance and anaerobic endurance in men's indoor hockey athletes at Yogyakarta State University, the data of which was taken on Monday, Wednesday and Friday from 13 October 2022 - 08 December 2022 at the FIK Hockey field UNY with a population of 12 people. The results can be summarized as follows:

Table 1. T-test

Variable	count	T-test			Ket
		df	table	Sig	
Pretest-posttest pulmonary and cardiac	4.007	11	2.20	0.002	Significant
Pretest-anaerobic endurance posttest	22.951	11	2.20	0.000	Significant

Based on the results of the statistical tests above, the t-test value between the pretest and posttest of the heart lung endurance variable was obtained which had a calculated t value of 4.007 and a t table value with df equal to 11 at the 5% significance level of 2.20. P value = 0.002, where $p < 0.05$ so there is a significant difference. Judging from the average value of heart lung endurance capacity, the pretest average value was 12.58 and the posttest average value was 11.31, because the pretest average value > the posttest average value, there was an increase in endurance, heart lung of 1.27 or 10.09%. Meanwhile, the statistical test results of the t-test between pretest and posttest of the anaerobic endurance variable have a calculated t value of 22.951 and a t table value with df equal to 11 at the 5% significance level of 2.20. $P = 0.000$, where $p < 0.05$ so there is a significant difference. Judging from the average value of anaerobic endurance ability, the pretest average value was 305.16 and the posttest average value was 416.03, because the pretest average value > posttest average value, there was an increase in anaerobic endurance ability, amounting to 110.87 or 36.33%. The conclusion of this research is that there is an influence of the fartlek training method on increasing heart lung endurance and anaerobic endurance, because the average pretest value > the average posttest value, there is an increase in anaerobic endurance ability of 110.87 or 36.33%. The conclusion of this research is that there is an influence of the fartlek training method on increasing heart lung endurance and anaerobic endurance, because the average pretest value > the average posttest value, there is an increase in anaerobic endurance ability of 110.87 or 36.33%. The conclusion of this research is that there is an influence of the fartlek training method on increasing heart lung endurance and anaerobic endurance.

Discussion

There was an increase in the physical condition of cardiopulmonary endurance and anaerobic endurance in men's indoor hockey athletes at Yogyakarta State University after being given the fartlek training method. Fartlek training can increase the endurance of the lungs and the heart to work more optimally because programmed fartlek training will form stronger heart walls, so that the amount of air becomes greater and the stroke volume of blood per beat becomes greater. stated that fartlek training is an advanced training method to increase speed and endurance. Fartlek training consists of running using the repetition method, which is one way to train anaerobic endurance [4]. The physical conditions required in the sport of hockey include heart lung endurance, anaerobic endurance, speed, agility, strength, muscular endurance, and flexibility. Indoor hockey the energy required is aerobic and

anaerobic [6]. This is in accordance with the opinion of who state that endurance is divided into two, namely aerobic endurance and anaerobic endurance [7]. Cardiopulmonary endurance is the ability of the heart and lungs as well as the circulatory system to function efficiently at a fairly high tempo during a certain period [8]. Meanwhile, anaerobic endurance is the process of meeting the body's energy needs to utilize glycogen to become a source of energy without the help of oxygen from outside the body. So, in order to improve the physical condition of cardiorespiratory endurance and anaerobic endurance in indoor hockey athletes, it is necessary to carry out endurance training, namely the fartlek training method. In accordance with [1] opinion, one of the best forms of physical training for hockey is fartlek training. Stated that the fartlek training method is a form of running activity carried out by walking, jogging, sprinting and walking continuously for a specified time [9]. The fartlek training method aims to increase the athlete's power and aerobic space [3]. This method is the best form of training to increase endurance in almost all sports. Stated that fartlek training should be done during the preparation period, because heart and lung endurance training is the initial foundation for facing heavier training in the following season. This is in accordance with the opinion of that the form of fartlek training can be applied to sports that are undergoing preparation for competition and is a long-term training plan because it can make the body's organ systems, especially the heart, work optimally [10]. It is stated that programmed fartlek training increases an athlete's heart and long endurance. This is because fartlek training, while enjoyable, adheres to proper principles and training patterns [11, 12].

Conclusion

Based on the results of the above research it can be concluded as follows:

1. There is an effect of the fartlek training method on increasing cardiopulmonary endurance in men's indoor hockey athletes at Yogyakarta State University.
2. There is an effect of the fartlek training method on increasing anaerobic endurance in men's indoor hockey athletes at Yogyakarta State University.

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