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by Jurnal Sportarea UIR

Submission date: 24-Jan-2024 05:51AM (UTC+0700) Submission ID: 2262329453 File name: 2._EUDL.pdf (167.34K) Word count: 2259 Character count: 11400

The physical fitness of petanque athletes from the Universitas Islam Riau

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Abstract. This study aims to see the extent of the physical fitness level of petanque UKM athletes from Riau Islamic University. This research method is quantitative descriptive. The sample in this study were all UKM athletes (Student Activity Unit) petanque of the Riau Islamic University, totaling 14 people. This research instrument uses the Indonesian Physical Fitness Test (TKJI). Based on the analysis of research and tested for its truth, it was found that the level of physical fitness of Petanque UKM in Riau Islamic University was classified as less. It is expected that with this result, the athlete petanque UKM of the Riau Islamic University can actively practice and improve their physical fitness to achieve performance in petanque sports.

Keyword : Study, Research, Physical

1. Introduction

Physical fitness is an integral part in overall sports. The quality of physical fitness has a relationship with sports skills [1]. Therefore, physical fitness training not only develops the physical sphere, but also develops aspects of health, critical thinking skills, emotional stability, social skills, reasoning and moral action through physical activities and sports activities. Learning activities require an excellent level of physical fitness. Without this fitness, the activity will be less than optimal. Perhaps this is why physical education in sports and health is said to be an inseparable part of overall education. Physical fitness is one aspect of overall physical and fitness [2] [3]. Physical fitness gives a person the ability to do productive work everyday without excessive fatigue and still has the energy to enjoy his free time well or to do sudden activities. [4]. Physical fitness is one of the elements in maintaining and improving sports achievements [5].

Physical fitness can be divided into two aspects or components, including: fitness related to skills include; speed, power, balance, coordination, and reaction speed. While physical fitness related to health includes; heart and lung (cardiovascular) endurance, muscle strength and muscle endurance (muscle fitness), flexibility and body composition [6] [7]. Body fitness there are several factors that influence it including health problems, physical exercise, heredity and nutrition [8]. Some studies also mention that physical fitness has a positive correlation with academic achievement [9]. Physical fitness training plays an important role in maintaining and increasing the degree of physical fitness of a person is very helpful to his physical abilities. The higher a person's physical fitness the higher their physical work ability

ICASI 2020, June 20, Medan, Indonesia Copyright © 2020 EAI DOI 10.4108/eai.20-6-2020.2300690 [10]. Almost all of the Universitas Islam Riau petanque athletes incorporated in the Student Activity Unit (UKM) are Riau Province petanque athletes who have made Riau proud in the petanque championship in Indonesia. Although in the midst of the co-19 pandemic, the Universitas Islam Riau petanque athlete continued to practice as usual to attend the "PORPROV" championship in Kuantan Singingi Regency. The training is carried out by Universitas Islam Riau petanque athletes every day and is carried out every aftermoon. Exercise that is done by athletes every day will require good physical fitness, because athletes will get tired quickly. Therefore it is necessary to be given physical fitness training and also need to be seen how the level of physical fitness possessed by the Universitas Islam Riau petanque athlete. Until now the measuring tool used to measure the level of physical fitness of a person that is most commonly used is TKJI (Indonesian Physical Fitness Test) [11]. This measuring instrument is often used for the conditions of students at clubs, schools, and university levels.

2. Methodology

This research method is quantitative descriptive. The purpose of descriptive research is to provide a description of the nature of the situation while describing the cause and effect of a symptom or phenomenon. The population and sample in this study were UKM Petanque of Universitas Islam Riau totaling 14 people. This research instrument by measuring physical fitness with the Indonesian Physical Fitness Test (TKJI). The Indonesian Physical Fitness Test consists of 5 test items, namely: (1) 60-meter running test, (2) 60-second body lift test, (3) 60-second reclining test, (4) upright jump test, (5) 1200 running test meters [12].

Data analysis techniques using statistical analysis techniques. The evaluation criteria refer to the norms that have been used to provide values from each score point, with physical fitness categories (1) very good, (2) good, (3) moderate, (4) less, (5) very less. Conversion values from each category can be seen in table 1.

Table 1. Norms and Conversions of Physical Freshness Categorie	Table 1. l	Norms	and	Conversions	s of	Physical	Freshness	Categori
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No.	Amount of Values	Classification
1.	22 - 25	Very good (BS)
2.	18 - 21	Good (B)
3.	14 - 17	Medium (S)
4.	10 - 13	Less (K)
5.	5 – 9	Very Less (KS)

3. Result and Discussion

3.1 60-meter Running Test Results

Based on data collected from 14 samples, the fastest score was 4, 50 seconds and the lowest was 9, 46 seconds. For more details can be seen in table 2. Table 2. Data Frequency Distribution of 60-meter Running Test Results

	Interval	rrequency	Percentage
5	<7.2	1	7,14
4	7,3–8,3	3	21,43

Score	Interval	Frequency	Percentage
3	8,4-9,6	3	21,43
2	9,7 - 11,0	6	42,86
1	>11,1	1	7,14
	Fotal	14	100 %

3.2 Pull-Up Test Results

Based on data collected from 14 samples, the highest body lift score is obtained 19 times and the lowest is 0 or not at all. For more details can be seen in table 3.

Table 3. Data Frequency Distribution of Pull-Up Test Results

Score	Interval	Frequenc	Percentag
		у	e
5	19 keatas	2	14,28
4	14 - 18	2	14,28
3	9 - 13	4	28,57
2	5 - 8	6	42,86
1	0 - 4	0	0
Т	otal	14	100 %

3.3 Sit-Up Test Results

Based on data collected from 14 samples, obtained the highest sit-up test scores 72 times and the lowest 27 times. For more details can be seen in table 4.

Table 4. Data Frequency Distribution of Sit-Up Test Results

Score	Interval	Frequency	Percentage
5	41 ke atas	1	7,14
4	30 - 40	2	14,28
3	21 - 29	2	14,28
2	10 - 20	8	57,14
1	0-9	1	7,14
1	Fotal	14	100 %

3.4 Vertical Jump Test Results

Based on data collected from 14 samples, the highest vertical jump test score was 62 cm and the lowest was 39 cm. For more details can be seen in table 5.

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Score	Interval	Frequency	Percentage
5	73 keatas	0	0
4	60 - 72	3	21,43
3	50 - 59	3	21,43
2	39 - 49	8	57,14
1	0 - 38	0	0
I	otal	14	100 %

3.5 1200 Meter Running Test Results

Based on data collected from 14 samples, the highest 1200m running score was 4, 21 minutes and the lowest was 6, 30 minutes. For more details can be seen in table 6.

Table 6. Frequency Distribution of 1200 Meter Runn	ing Test Result
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Score	Interval	Frequency	Percentage
5	Sd – 3,14	0	0
4	3,15-4,25	2	14,28
3	4,26-5,12	4	28,57
2	5.13-6,33	8	57,14
1	6,34 dst	0	0
1	Fotal	14	100 %

From the analysis of the research data which was tested for the truth, the fact was found that the physical fitness level of the students of UKM Petanque Universitas Islam Riau from the results of the tests and the totals were classified as good with a percentage of 14.28% of 2 people, classified as moderate with a percentage of 21.43% by 3 people, less category with a percentage of 57.14% as many as 8 people, while the category of tests was very poor with a percentage of 7.15% or as many as 1 person. The results can be seen in table 7.

	Table 7. Frequency Distribution							
No	Category Interval Frequency			Percen				
				tage				
1	Very good	22 - 25	0	0%				
2	Good	18 - 21	2	14,28%				
3	Medium	14 - 17	3	21,43%				
4	Less	10 - 13	8	57,14%				
5	Very Less	5 - 9	1	7,15				
	Т	otal	14	100%				

Based on the analysis of research and tested for its truth, it was found that the level of physical fitness of Petanque UKM in Universitas Islam Riau was classified as less. It is expected that with this result, the UKM Petanque athletes of the Universitas Islam Riau can actively practice and improve their physical fitness to achieve performance in petanque sports. The level of physical fitness does not recognize age, meaning that the level of physical fitness is needed both for the young and old generation. If the level of physical fitness is low will cause the ability to carry out activities to be low too. Physical fitness is closely related to all human activities in doing work and sports [13]. The higher the physical fitness of a person the higher the ability of physical work or activities [5]. The level of physical fitness that a person has becomes an important role in carrying out activities or daily activities [4]. Based on Elzandri and Dwi's research, a person's physical fitness is influenced by body mass index, exercise, smoking habits, while age does not have a significant effect because the range is too narrow [14]. Physical fitness and physical activity of a person are also very important for health [15][16][16][17] and there is a statistically significant relationship between cardiorespiratory fitness and healthy lifestyle practices and physical activity [19].

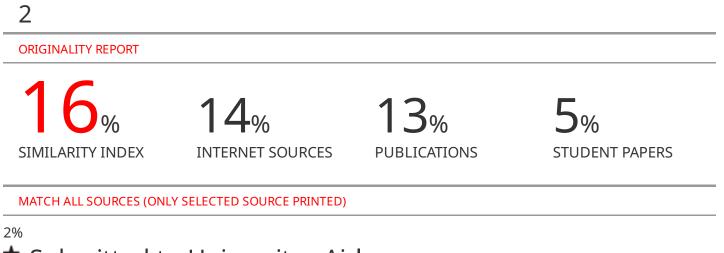
4. Conclusion

Based on the results of research conducted on 14 petanque athletes of the Universitas Islam Riau, it can be concluded that the physical fitness level of the Petanque athletes of the Universitas Islam Riau is classified as lacking. It is expected that with this result, UKM Petanque athletes from the Universitas Islam Riau should improve their physical fitness to achieve maximum performance.

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