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Review of the effective talent identification factors of badminton for better teaching to success

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Abstract

This study focused on the effective factors on talent identification of badminton. Thus, all of badminton national team players of Iran (n=19, age mean= 19.6) surveyed by a questionnaire. Freedman test was used to rank effective factors on talent identification. The results revealed that from the player's view, anthropometric index was the most important factor of talent identification of badminton. Furthermore, Motor ability index was in the next level of the importance.

Keywords: badminton, talent identification, factor.

1. Introduction

Various factors are effective in success of athletes. Natural talent is one of the factors effecting on this spectrum. Researchers believe that identifying capable people is one of the most important aspects to help athletes to success. Some Eastern European countries started talent identification programs from 70 decades. In this field, Alobin (1980) and Han (1990) approved that appropriate talent identification was the primary factor of Eastern European countries success in two recent decades. Scientific researchers showed that individual`s ability to perform athletic activities depend on elements such as age, gene, practice and so on. Of course age category is considered newly by researchers. In addition to the coach's knowledge in sport sciences, the ability of intuition and selection of capable individuals is also another factor in athlete's success. Nowadays, practical tests and special experimental tests are used in scientific and sufficient talent identification programs. These tests include general talent identification and specific talent identification programs. Prerequisites of talent identification should be noticed, because paying no attention to them may limit and decrease athlete's success chance. These prerequisites include anthropometric, physiological, skill, and psychological indexes. Furthermore it should be concerned that determining each of prerequisites effectiveness amount in talent identification is a very complex issue.

Physical conditioning is an important factor in talent identification. Bloomfield (1995) defined components like strength, power, flexibility, and speed as effective elements of talent identification. Anthropometric and body composition index, with some components such as body fat percentage, body fat mass, and body mass index, are important elements in talent identification. Skill index has a specific value among researchers due to its significant

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role in activity performance. Psychological index is another important element, So that Komadel (1988) believed that psychological capability is necessary for success of youth athletes in competition. Furthermore he believed on the importance of self-excitation and having high sensorimotor ability in learning of complex skills. Badminton needed some components such as speed, agility, and so other element noticed here, is not needless of talent identification and absolutely requires it to acquire optimal results. Due to lack of study on badminton talent identification and the importance of this sport in countries, especially Asian ones, this study attempted to identify its effective factors from elite athletes' view of this sport.

2. Methodology

2.1. Participants

All of badminton national team players of Iran included 21 players (with age mean of 19.6 years old) participated in this research. They were players of three age classes include of teenager, youth, and adults class.

2.1.1. Procedure

This study was a descriptive research in which all participants were surveyed by a questionnaire.finally 19 of 21 questionnaires given to players was usable and 2 of them were omitted due to some problems. The reliability of the questionnaire was 0.81.

2.1.1.1. Statistical Analysis

All statistical analysis were done by SPSS software (version 15) with significant level of $\alpha < 0.0$

3. Result

As a result the effective factors in badminton talent identification were identified in four groups and ranked by freedman test. Results are presented in table 1.

Table1.effevtive factors in badminton talent identification.

Index	X	SD	Rank mean
Anthropometric index	3.02	0.92	3.37
Motor ability	2.83	0.73	3.34
Psychological capacity	2.03	0.82	2.29
Skill	1.8	0.53	2.09

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4. Discussion

All Results showed that from the player's view, anthropometric index was the most important factor of talent identification of badminton. The most important three components of this index were height, body fat percentage, and size of palm. Motor ability index was in the next level of importance. Components such as dynamic balance, static balance and hand strength were elements of motor ability index. Furthermore, psychological capacity was in the third level of importance. Training Courses and risk taking were the components made this index effective. Skill

index with skills of toss and drive shot were in the next levels of importance. In addition, these factors ranking can be seen in chart 1.
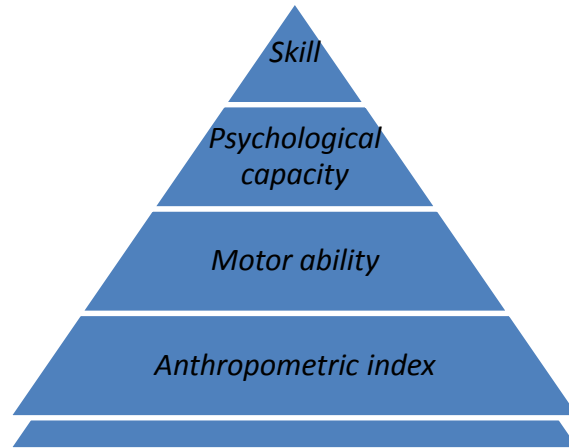

Chart No.1. Rank of effective factors on talent identification.

From this study researcher's view, educated and professional coaches can play significant role in talent identification of badminton.

This sport`s coaches can save time, energy, money and gain optimal results by using elements considered in this study and other related studies. When a coach selects an individual by these elements can teach better him or her. In other words, the player is more susceptible to learn and use skills.

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