Construction of the Selection Index System for High-level Basketball Players in Colleges and Universities

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Abstract. The purpose of this study is to introduce the basketball player selection index system into the selection of high-level basketball players in colleges and universities. At the same time, it provides theoretical basis for the selection of high-level basketball players in colleges and universities. It can provide reference Suggestions for decision-makers at all levels and coaches to select and educate talents scientifically. This study mainly adopts the experimental method to determine the relevant selection and allocation indicators of high-level basketball players in colleges and universities, including physical ability, technical ability, and tactical ability. Through the test and test of 8 high-level basketball players in Nanchang University, the author analyzes the selection and allocation indicators of high-level basketball players in colleges and universities. The results show that the level of basketball players obtained by ahp is consistent with that obtained by coach subjective consciousness selection.

The Research Object
This paper takes the high-level basketball players of Nanchang University as the research object.

The Research Methods

Bibliography
The research of this study mainly searched the relevant papers and journals in the database of cnki, and its main contents included basketball competitive ability, basketball sports items, selection and evaluation indexes, etc. On this basis, the collected literature materials were sorted out and analyzed, thus laying a theoretical foundation for this study.

Expert interview
In order to make this study more scientific and rigorous, during the study, in the form of interview, visited central China normal university, Huazhong university of science and technology, Henan normal university, Xinyang normal university and other research on basketball field more than ten years’ experience of 12 experts, professors, coaches, and academics in university high level basketball athlete core competitive selection index evaluation system of each level indicator in the selection and determine the visit investigation, and relevant advice and Suggestions. These consultations have greatly improved the efficiency of the research, made the research more comprehensive and objective, and provided the basis for the in-depth analysis of the paper.

Mathematical statistics
Through SPSS22.0 data analysis software, the data obtained from the test of this study were statistically analyzed and processed, and the corresponding calculation results were obtained.

Logical analysis
This paper USES the definition method to analyze the indicators of the core competitive ability of high-level basketball players in colleges and universities, summarizes the former research
Research and Analysis

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There are two forms of evaluation of selected and allocated indicators: One is the index range, is the main test is the athlete's body shape; the second is the grading standard of the test indicators. According to the test results of athletes, whether the athletes meet the criteria of selection and allocation is determined. Comprehensive basketball player select index evaluation and the way of pageant, for the human body corresponding morphological index, quality level, function level, mental health status and corresponding index evaluation on the intelligence development level, at present, for the foundation of basketball players ability test, rely on the experience of coaches will be able to conduct a preliminary judgment, such as sensitive degree, coordination, etc. Therefore, coaches' evaluation and experience judgment should also be considered in the selection and allocation of high-level basketball players in colleges and universities. Science and basketball player pageant, should coordinate the relationship between the selection and selection index evaluation, comprehensive consider all index test results, should not only include genetic factors, at the same time should also be incorporated into the influence of environmental factors, the day after tomorrow at the same time also special physical indicators of the test, give full consideration to compensating characteristics between sports performance. Therefore, the construction principles of basketball player selection index evaluation system are mainly scientific, operable, hierarchical, complete and purposeful.

The basis and method of selecting high-level basketball players

University high level basketball athlete select index evaluation system of the build process, is in the paper, on the basis of theoretical analysis combined with relevant experts, such as shenyang sports college professor Li Chengliang, research on evaluation index system of excellent basketball athletes, systematically expounded, it is necessary to construct the evaluation index system of excellent basketball player. Therefore, this study determines the construction process of the evaluation system of selection and allocation indicators for high-level basketball players in colleges and universities as follows: Should first is to determine the corresponding evaluation objects and goals, on this basis to determine the athlete select evaluation index system, and determine the corresponding index and weight ratio, which ultimately determine the corresponding athlete select evaluation questionnaire, to determine a certain evaluation standard brick, finally complete the corresponding evaluation of the evaluation index system, and calculating the corresponding evoked by this evaluation index system of evaluation results.

The construction of the evaluation system for selecting and allocating high-level basketball players in colleges and universities must be carried out under the guidance of corresponding principles so as to objectively and truly reflect the ability of basketball players. The system structure of skills and qualities of basketball players is complex and hierarchical. The relationship between the skill structure of players and their subsystems is a mutual promotion relationship, and there is also a mutual restriction relationship between them. The change of one of the subsystem factors may lead to the change of the overall function of players in the year. Therefore, in the selection of scientific and objective evaluation indicators of high-level basketball players in colleges and universities, we must follow the principles of science, testability, relative independence, objectivity and simplicity. University high level basketball player's skills and quality level mainly through the corresponding morphological characteristics, body function and sports ability to show, therefore, the study in the high level in colleges and universities basketball player select evaluation index selection, should from the morphological characteristics, body function and sports ability of these three aspects. Only through the construction of the index system of sports ability in these three aspects can the corresponding evaluation index be defined. On the one hand, the definition of
relational evaluation index should seek the corresponding logical relationship in theory; on the other hand, the evaluation index should be confirmed by relevant experts, and the evaluation tabulation initially screened should be screened again.

In order to further ensure the effectiveness of this study, the selection and allocation indicators of high-level basketball players in colleges and universities are determined mainly by referring to the implementation rules for the selection of national basketball players issued by the Chinese basketball association in 2017. On this basis, combined with the general administration of sport of China on the "high-level athletes allocation test standards", and combined with the above expert identification survey, to determine the relevant allocation indicators of high-level basketball players in colleges and universities, including physical ability, technical ability, tactical ability three aspects.

**Qualitative and Quantitative Analysis of Selection Index Evaluation System**

**Evaluation system model construction**

Through the construction of the evaluation system of the selection and allocation indicators of high-level basketball players in colleges and universities mentioned above, on the basis of the qualitative screening of the above evaluation indicators, a structured and hierarchical quantitative screening is carried out according to the selected corresponding evaluation indicators, and an evaluation index system is constructed on this basis. As for the evaluation data model of the selection and allocation index of high-level basketball players in colleges and universities, the corresponding comprehensive evaluation model is established. The calculation formula is as follows:

$$y = \sum_{i=1}^{n} w_i x_i$$  

\(w_i\) is the weight of each indicator

(1)From \(x_1, x_2, x_3...\) \(X_n\), choose any data in it, compare the size of \(y\) values contributed between them, and establish \(n\)-th order matrix based on the relevant values.

(2)Then, combined with the matrix of the scale of each layer, the weight of the selected indicators of high-level basketball players in colleges and universities was calculated, so as to judge the importance matrix of the indicators selected in this study. Combined with the corresponding comprehensive evaluation model, a judgment matrix of the importance of the evaluation index of the selection and allocation index of basketball players is obtained.

**The purpose of the selection index evaluation system**

In order to verify the scientific construction of the selected basketball player selection index evaluation system, 8 high-level basketball players from Nanchang university were selected as the objects of this study, and the corresponding tests were conducted based on the above indicators. The evaluation method is mainly to organize the corresponding panel of judges to evaluate the level and status of athletes' training by fully collecting a series of basketball sports indicators of the research objects. And develop the corresponding evaluation standard, the standard is divided into five grades, namely excellent 90 points above, general 80-90 points, qualified 70-80 points, poor 60-70 good, extremely poor 60 points below. The panel of judges rated the ability of the 8 basketball players selected in this study. However, due to the subjectivity of such scoring, the selection index of basketball was then verified through this study.

**Calculate the Comprehensive Score and Carry out the Comprehensive Evaluation**

In the evaluation system of selection and allocation indicators for high-level basketball players in colleges and universities, the formula for calculating the comprehensive score of basketball players is the sum of the weight coefficients of each index *. For example, the comprehensive score of a basketball player is:
Analysis of Test Results of Index Evaluation System

Through the test of the above index evaluation system and the calculation of the corresponding comprehensive score, it is found that the comprehensive score of C basketball players is the highest and the comprehensive score of F basketball players is the lowest, which is consistent with the results obtained through their training results and the coach's evaluation. In addition, we can see that compared with the coach's subjective evaluation, through these indicators of basketball players, the calculated results are more accurate, can specifically analyze the quality of each functional indicators of basketball players, from the selection of truly high-level basketball players. This test result verifies the operability of the evaluation index of the selection of high-level athletes in colleges and universities selected in this study. The results show that the level of basketball players obtained through the analytic hierarchy process is consistent with the result of the selection of coaches' subjective consciousness. Therefore, the basketball player indicators selected in this study are operable and can objectively and truly reflect the physical function level and comprehensive quality of college basketball players.

Conclusion

(1) Combined with the relevant research review at home and abroad, the definition of skills and quality of basketball players is defined, and on this basis, the selection and evaluation index of high-level basketball players is proposed, and the corresponding composition of core competitiveness of high-level basketball players is expounded.

(2) According to the principle of basketball player selection evaluation standard construction, a set of scientific and objective basketball player selection evaluation index system is constructed. By analyzing the corresponding evaluation decision-making system and judgment matrix, the weight distribution of each index in the construction of the evaluation index system for the selection and evaluation of high-level basketball players in colleges and universities is solved, and the importance of a series of skill components of basketball players is analyzed.

(3) Through the construction of the evaluation index system model of the selection of high-level basketball players in colleges and universities, and the corresponding evaluation index test of the selection of basketball players, the scientific and objective evaluation of the skills and quality of basketball players, combined with the corresponding evaluation index calculation results of basketball players, to evaluate the corresponding comprehensive level of basketball players.

(4) Through the basketball player selection evaluation index system model established in this study, the skills of basketball players are calculated by using relevant data, so as to meet the training needs of selecting high-level basketball players.

Reference

