

Investigation and Analysis of Tennis Teaching Status in Different Types of Colleges and Universities in Jiaodong Peninsula Urban Agglomeration

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ABSTRACT

Using the methods of questionnaire and interview, this paper makes a detailed analysis on the characteristics of tennis courses in different types of colleges and universities in Jiaodong Peninsula urban agglomeration. As a result, in Jiaodong Peninsula, the professionalization proportion of tennis teachers in colleges and universities is low, the proportion of young teachers is high, and the proportion of male teachers is high; Teachers' scientific research ability is strong, but the correlation with tennis is low; There is still a big gap between the tennis class and the needs of students; The allocation of teaching facilities is far from meeting the requirements of the Ministry of Education; In the recent two years, only one university has begun to recruit high-level tennis players, which is very inconsistent with the status of a great cultural province and a strong sports province. It is suggested that colleges and universities in Jiaodong Peninsula comply with the general trend of national economic and social development and strive to promote the development of tennis and sports in colleges and universities in Jiaodong Peninsula urban agglomeration.

Keywords: Jiaodong Peninsula Urban Agglomeration, Colleges and universities, Tennis teaching.

1. INTRODUCTION

Since the 1990s, most colleges and universities in China have successively carried out the optional course teaching of a variety of sports in accordance with the national requirements and their own characteristics and conditions. Tennis has the characteristics of fitness, competitiveness, interest and education. At present, it has become one of the sports loved by contemporary college students. Through the optional course teaching of tennis, college students can master at least one physical fitness method, cultivate the awareness of lifelong sports and sports ability, and form the habit of taking the initiative to exercise. Under the new situation of further deepening the reform of college sports, this paper investigates and analyzes the current situation of different types of special college tennis courses in Jiaodong Peninsula urban agglomeration, and formulates the development plan of tennis optional courses with the characteristics of Jiaodong Peninsula urban

agglomeration, which is of great practical significance for the development of sports in colleges and universities of Jiaodong Peninsula urban agglomeration.

2. RESEARCH OBJECTS AND METHODS

2.1 Research Objects

10 undergraduate colleges, 10 higher vocational colleges and 5 independent colleges were selected as the research objects from the colleges and universities of Jiaodong Peninsula Urban Agglomeration published on the website of Shandong Provincial Department of education.

2.2 Research Methods

2.2.1 Questionnaire Survey

Using the method of stratified sampling and random sampling, a questionnaire was distributed to the leaders of physical education departments, tennis teachers and tennis students in 25 colleges and universities in order to understand the current situation of tennis teaching in different types of colleges and universities in Jiaodong Peninsula urban agglomeration.

2.2.2 Interview Method

Through interviews with school managers and teachers, their views and opinions on the current situation and future development of tennis teaching can be understood, which also can provide practical and theoretical support for this study. At the same time, through the interview with the Department of Physical Education in colleges and universities without tennis course in Shandong Province, the subjective and objective reasons why colleges and universities don't offer tennis course can be understood.

2.2.3 Mathematical Statistics

SPSS10.0 software is used to statistically analyze the questionnaire data, and the analysis results provide detailed data support for this study.

3. RESULTS AND ANALYSIS

3.1 Teaching Settings of Tennis Courses in Different Types of Colleges and Universities in Jiaodong Peninsula Urban Agglomeration

Through the investigation of tennis courses in 25 different types of colleges and universities in Jiaodong Peninsula urban agglomeration, human beings can understand the basic situation of tennis courses in different types of colleges and universities in Jiaodong Peninsula urban agglomeration. All the 10 colleges and universities participating in the survey have set up tennis courses; only 3 of the 10 higher vocational colleges have opened tennis courses; and only one of the five independent colleges surveyed offered tennis courses. Ordinary undergraduate colleges and universities have well implemented the requirements of the Ministry of Education on offering physical education, so as to meet the

learning needs of students in physical education as much as possible[1]. Higher vocational colleges, especially independent colleges, failed to set up tennis courses due to insufficient attention of leaders, lack of venues and equipment, lack of teachers and other reasons.

3.2 Basic Elements of Tennis Teaching System in Different Types of Colleges and Universities in Jiaodong Peninsula

3.2.1 Current Situation of Tennis Teacher Structure

3.2.1.1 Basic Information of Tennis Teachers

An important factor affecting the rationality of the structure of teachers in colleges and universities is the age and gender structure. A reasonable age and gender structure is an important symbol of the scientific development of the teaching staff. The scientific construction of the teaching staff echelon can promote the growth of teaching and learning, give play to the role of teaching and guidance, and make the college teaching staff healthy and upward[2]. Among the investigated 14 colleges and universities offering tennis courses, 28 tennis teachers are engaged in tennis teaching, of which the proportion of teachers aged 35-44 is 42.86%, indicating that teachers at this age are the backbone of tennis teaching, and no teachers under the age of 28 years old are engaged in tennis teaching, indicating the lack of young teachers in tennis teaching team. Among the 28 tennis teachers engaged in tennis teaching, female teachers account for only 7.14%, indicating that the gender ratio of tennis teachers is seriously unbalanced.

3.2.1.2 Current Situation of Academic Structure of Tennis Teachers

Degree is an important symbol to measure the knowledge and ability level of tennis teachers, and is also very important for the improvement of the scientific research level of college teachers in physical education teaching in colleges and universities[3]. Among the 28 tennis teachers surveyed, two teachers over the age of 55 years old are undergraduates. The other two teachers with bachelor degree are retired professional tennis players with ITF first-class coach qualification specially recruited by Qindao College of Qingdao University of Technology and graduated from Beijing Sports University and Wuhan Institute of Physical Education. People with master's degree or

above accounts for 75%. It can be seen that tennis courses in colleges and universities in Jiaodong Peninsula urban agglomeration have a high cultural level.

3.2.1.3 Title Structure of Tennis Teachers

The title of teachers in colleges and universities is not only an important symbol of teachers' teaching level and scientific research ability, but also a yardstick to measure teachers' quality and qualification[4]. The title structure of tennis teachers in colleges and universities in Jiaodong Peninsula urban agglomeration also reflects the quality, teaching level and scientific research ability of tennis teachers. According to the survey, teachers with senior professional titles account for 78.57% of the total number of teachers, which is much higher than the proportion of teachers with senior professional titles in optional courses of other sports.

3.2.1.4 Scientific Research Ability of Tennis Teachers

Scientific research ability is not only the basic requirement of the state for college teachers, but also the concrete embodiment of the high quality of college teachers. Tennis teachers of colleges and universities in Jiaodong Peninsula have published 145 papers, 17 scientific research projects, and 7 works in recent 5 years, indicating that the tennis teachers in colleges and universities of Jiaodong Peninsula have strong scientific research ability.

3.2.1.5 Special Sports Characteristics and Teaching Ability of Tennis Teachers

The special skills of tennis teachers generally refer to the names of sports special skills engaged by the teachers during their undergraduate period. Special skills refer to the special professional theoretical knowledge and professional sports skills. In practical work, this skill can be used to complete the teaching tasks in the future teaching, training and competition tasks, take good training of professional athletes and achieve excellent competition results with this skill[5]. However, from the investigation on the special characteristics of tennis teachers in colleges and universities in Jiaodong Peninsula urban agglomeration, it is found that most of the teachers engaged in tennis teaching in colleges and universities in the blue economic zone of Jiaodong Peninsula urban agglomeration are not engaged in tennis, but engaged in sports

such as track, basketball, football, badminton and even archery. The teachers not majoring in tennis accounted for 85.71%, while tennis special teachers accounted for only 14.29% of the number of tennis teachers. On the one hand, it shows that the teaching of tennis course in colleges and universities of Jiaodong Peninsula urban agglomeration lacks professionalism, and the teaching effect of tennis course may be greatly reduced. On the other hand, it also reflects the backward development of tennis in China and the extremely lack of tennis professionals.

In Jiaodong Peninsula urban agglomeration, 10 colleges and universities investigated have set up tennis courses. However, among the 10 colleges and universities, only the physical education department of China University of Petroleum (East China) has a undergraduate tennis teacher, and the others are teachers not majoring in tennis. The reasons are as follows: first, college leaders attach importance to tennis teaching. When most colleges and universities in China follow the requirements of the Ministry of Education, they set up tennis programs loved by students that meet the needs of the public. Colleges and universities in Jiaodong Peninsula urban agglomeration have a strong regional economic foundation and developed leisure culture, and have unique advantages in setting up tennis elective courses to meet the needs of society and students. Second, before the offering of tennis class, some tennis teachers in colleges and universities engaged in tennis earlier, and won good results in competitions at all levels, cities and universities. Although such teachers do not major in tennis specialty, their exquisite tennis level can fully meet the needs of college students' tennis class. Third, most tennis teachers carry out on-the-job tennis professional training before and after tennis teaching. This makes professional tennis teachers stride forward in theoretical level, practical level and tennis teaching method.

3.2.2 Investigation on Tennis Teaching Environment in Different Types of Colleges and Universities in Jiaodong Peninsula

The teaching environment in tennis teaching mainly refers to the venues used in tennis teaching activities, various teaching facilities related to teaching, teaching-related documents, relevant books, videos, learning atmosphere and so on[6]. They are of great significance in the teaching environment of tennis class and an important link in

tennis teaching activities. Physical education teaching environment will have a direct impact on the teaching effect of tennis class.

3.2.2.1 Tennis Teaching Materials and Syllabus

Teaching materials are not only the carrier of teaching information, but also the object that teachers and students should use, study and investigate in teaching activities. Tennis teaching materials and tennis syllabus are the prerequisites of tennis teaching and the premise of tennis teaching. Tennis teaching materials and syllabus are the guiding documents of tennis teaching, which directly affect the teaching quality of tennis class[7]. Under the guidance of tennis teaching materials, the syllabus compiled to meet the learning needs of students directly determines the teaching level and characteristics of tennis courses in colleges and universities.

In the investigation, it is found that the college physical education, physical education and health and other teaching materials applied by most colleges and universities are basically unified courses in cooperation with the publishing house. Although the contents of various sports are mentioned, they have less description, and the contents are not rich. Most of them are the introduction of basic technical tactics of tennis, but are far from achieving the purpose of compiling tennis syllabus for tennis teaching. Colleges and universities take the basic teaching materials as the reference of students' basic theory. Most of the colleges and universities that offer tennis courses in Jiaodong Peninsula urban agglomeration formulate the tennis course syllabus applied to their students based on the tennis technical and tactical works of various majors.

3.2.2.2 Tennis Equipment and Number of Teachers and Students

Equipment is the basis of physical education and the prerequisite of teaching activities. It has a vital impact on tennis in colleges and universities of Jiaodong Peninsula urban agglomeration.

There are 14 tennis courts at most and 1 at least in colleges and universities of Jiaodong Peninsula urban agglomeration. It is advisable to arrange 4-6 students in each field. According to the calculation that the number of students in each class is no more than 30 as stipulated by the Ministry of Education, each class needs 5 tennis courts at least. The actual survey result shows that Yantai University and

China University of Petroleum (East China), which have the most venues, can only have up to 4 venues in each class. The actual situation is that 10-20 people are required to attend each optional course. This greatly reduces the practice density of students in class, causes great difficulties in completing the content of the syllabus, and is difficult to achieve the expected teaching effect.

3.2.2.3 Mental Environment of Tennis Teaching

The so-called spiritual environment of tennis teaching refers to the combination of many factors, such as the value recognition of tennis, the attitude towards its social value orientation, the students' attention to the development of tennis and the behavior and mode of tennis participation[8]. According to the survey, it is found that among the colleges and universities in Jiaodong Peninsula urban agglomeration, only Qindao College of Qingdao University of Technology has a formal tennis team and professional tennis coaches for amateur tennis training. As the leaders of the college attach importance to the development of tennis, colleges and universities have actively introduced two ITF first-class coaches such as Hu Mingjie and Cui Yaozhen to Qindao College to teach tennis, which has driven the development of tennis in Qindao College. The tennis team of Qindao College of Qingdao University of Technology has been established to participate in tennis competitions at all levels in Qingdao and achieved excellent results. And tennis team of Qindao College is very famous in Qingdao. As a medium, it makes the outside world better understand Qindao College. At the same time, it has also greatly promoted the better development of tennis in Qindao College and even Qingdao. Colleges and universities in Qingdao regularly hold tennis competitions among colleges and universities every year, and the results of the tennis competitions are remarkable. Other colleges and universities in Jiaodong Peninsula urban agglomeration have no fixed or temporary tennis teams, and rarely participate in tennis competitions inside and outside the school. The National College Students' Sports Association has held the National College Students' Tennis Championship since 1994. With more than 20 years of development, it has a considerable scale. As a major sports province and a strong sports province, Shandong Province began to hold the first Shandong University Tennis Championship in 2019. So far, only Jinan University has cooperated with Shandong tennis team to recruit high-level tennis players in 2018

and began to participate in the National College Tennis Championship. Compared with other provinces, cities and universities in China, the development of college tennis in Shandong Province has seriously lagged behind. Colleges and universities in Jiaodong Peninsula urban agglomeration should make use of the excellent environment, developed economic conditions and window advantages of opening to the outside world of the urban agglomeration, first hold tennis competitions among colleges and universities in the economic zone, strengthen inter-school tennis exchanges, and vigorously develop tennis sports in colleges and universities in Jiaodong Peninsula urban agglomeration.

4. CONCLUSION

The development of tennis courses in colleges and universities in Jiaodong Peninsula urban agglomeration is good, and the rate of offering tennis courses in higher vocational colleges and independent colleges is low. The main factors restricting colleges and universities in Jiaodong Peninsula urban agglomeration to carry out tennis courses include insufficient attention from the superior and competent departments, weak teachers, insufficient venues and equipment, lack of attention from the education department, insufficient capital investment and so on. Although the opening of tennis class has become the general trend, colleges and universities still faces multiple difficulties in the opening process, which need to be coordinated and reasonably solved by all parties concerned.

There is a lack of tennis teachers in colleges and universities in Jiaodong Peninsula urban agglomeration, and the proportion of teachers not majoring in tennis is very high (85.71%). The proportion of young teachers is low, and the gender ratio is unbalanced. Female teachers only account for a very small number of tennis teachers (7.14%). Tennis teachers have high cultural level and outstanding scientific research ability, but they have less scientific research achievements related to tennis. Although the proportion of professional tennis teachers is low, the professional ability and theoretical level of tennis teachers can meet the teaching requirements of colleges and universities.

The content of tennis theory teaching materials is not rich enough, and the tennis court facilities and teachers are far from meeting the learning requirements of students. Colleges and universities in Jiaodong Peninsula urban agglomeration have no college tennis league, and there is a lack of

enrollment schools for high-level tennis players. The lack of high-level enrollment schools for college students' competition and tennis is inconsistent with the status of Shandong Province in culture and sports.

AUTHORS' CONTRIBUTIONS

Wei Li contributed to writing and editing. Bo Yang analysed data.

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