Novel Coronavirus Pneumonia Based on Cloud Computing to Explore a New Mode of Physical Education in Colleges and Universities

Guanghui Li

Ji Lin Justice Officer Academy, Changchun 130062, Jilin, China
sapphire0428@163.com

Abstract. How to cope with novel coronavirus pneumonia is a major task facing school sports. The study holds that novel coronavirus pneumonia is a valuable means to cope with the outbreak of new crown pneumonia: the value of individual level is the material foundation of ensuring students’ life safety; family level value is an important force to activate the development of family sports; social level value is an important cornerstone for maintaining national physical health, and the value of national level is an auxiliary means of scientific prevention and control of the new crown epidemic situation. The application of information technology in college education has been very popular. At present, the construction of the digital campus information system in Colleges and universities mainly focuses on the electronic school affairs system and network teaching system. But in sports, most colleges and universities only use electronic information instead of manual operation to complete the teaching tasks such as course selection and evaluation. The mode of college sports 10 years ago, or even more than 20 years ago is still widely used Many problems are still unsolved. With the development of science and technology in the 21st century, the era of network information has come. The new science and technology provide strong technical support for the reform of physical education in Colleges and universities.

Keywords: Novel coronavirus pneumonia · University sports mode · Cloud computing

1 Introduction

Since December 2019, a novel coronavirus pneumonia outbreak in China has posed a serious threat to public life safety, caused great losses to national economic development, and caused great challenges to the entire social operation. The novel coronavirus pneumonia has a high incidence of infection and large radiation. It brings great potential to crowded places. The school education front is deeply affected by crowded places. Novel coronavirus pneumonia prevention and control work conference held by Comrade Xi Jinping Standing Committee of the CPC Central Committee stressed that “ensuring the safety of people’s lives and health is a major task of the party’s governing the country. We must scientifically and accurately win the new type of coronavirus pneumonia epidemic prevention and control.” Under the overall planning of scientific
prevention and control and precise implementation of policies by the Party Central Committee, local governments and health committees issued policies to encourage home-based isolation, and the education department issued a notice to delay the start of school, advocate online classroom education, and guide students’ home-based learning [1]. Physical education novel coronavirus pneumonia is novel coronavirus pneumonia. It is an important function of school physical education to promote students’ health and enhance their immunity. It is an important means to scientifically prevent infection of infectious diseases. Under the situation of teaching time and space transfer caused by the new crown pneumonia, school sports should not be absent from the cooperative efforts to cope with the outbreak of the new crown pneumonia. Novel coronavirus pneumonia is a major task for school sports.

2 The Value of Novel Coronavirus Pneumonia in School Sports

For a long time, the value of school physical education has been recognized and interpreted from the biological, psychological, and social aspects, such as improving physical health, developing sports skills, cultivating moral quality, and developing social adaptability. Novel coronavirus pneumonia school sports, teaching field extended from school to outside school, involving students, families, society, national level, its value is more than the nonepidemic situation [2]. Under the new crown pneumonia epidemic situation, school sports should respect and play the conventional value of traditional physical education, and expand and activate the special value in a specific field. 1.1 the novel coronavirus pneumonia is a serious threat to the safety of life. The infected population is suffering from a serious crisis of life and survival. The life of the new crown pneumonia is extremely fragile. In the book of changes, it is said that “the virtue of heaven and earth is life”. The loftiest morality and ethics between heaven and earth is to fear life, nurture life, and save a life. To ensure people’s life safety and health is a major task of the party’s governance. Comrade Xi Jinping stressed that novel coronavirus pneumonia prevention and control meeting was held by the Standing Committee of the Political Bureau of the CPC Central Committee. “Life is more important than Mount Tai, the epidemic situation is the order, prevention and control is the responsibility”, and stressed that we should “always put people’s life safety and health first”, fully show the party’s childlike heart that regards people’s life safety and health as the highest value, reflect the party’s fundamental purpose of serving the people wholeheartedly, and also show the protection and health of people’s life The maintenance of health is the fundamental requirement and political task of major epidemic prevention and control. Clinical medicine shows that human immune ability is the physiological basis of effective prevention of respiratory infectious diseases. Sports science shows that scientific physical exercise can effectively improve cardiopulmonary function, enhance physical health, improve human immune ability, and is an important means to effectively prevent respiratory infectious diseases. Physical education in school is an educational activity with physical movement as its carrier and physical health as its goal. Promoting students’ physical health is an important function of school physical education. Guiding students to exercise scientifically is an important
task of school physical education. Novel coronavirus pneumonia is a kind of unity between material life and spiritual life. During the new crown pneumonia epidemic, school sports can help students to exercise in special places such as family, through online teaching, which can effectively strengthen physical fitness and enhance immunity, and has important value to help students away from infectious virus and protect material life safety.

3 Application of Cloud Computing in Sports

At present, in the field of cloud computing applications, the more famous ones are IBM “blue cloud” computing platform, Tsinghua University transparent computing platform, and Apple iCloud. These cloud computing platforms have entered the mature operation stage, bringing great convenience to users. In terms of sports, today, the IT systems of the four major tennis Grand Slam events of the Australian Open, the French Open, the Wimbledon Open, and the US Open are all based on the same private cloud service terminal of IBM. IBM has been using this private cloud platform to run the official website hosting the four Grand Slam events throughout the year and to help it improve the fan experience and provide various resources to serve the event-related people. IBM’s services for the four Grand Slam open include: draw and schedule system, result and scoring system for bidding competition: upload all data inside and outside the field to the cloud in real-time, and provide customers with download and use, including the intranet that provides information to commentators, media and players, and IBM that enables the public to obtain all information about the tennis court Cybercourt, an e-leisure room for players far away from home to interact with their families and friends, and an IBM sports information line that converts computer score data into telephone automatic voice information in various languages. Also, IBM It is necessary to record and analyze the user behavior of clicking, logging in, and searching the website through the website and intelligent terminal. Combined with the key points of tennis game: the popularity of players, the response of social media, and the schedule of the game, it is necessary to establish a prediction mechanism for workload, which can predict the situation of future peak browsing, automatically create a virtual machine and expand some resources of the cloud to adjust the work Make peak load distribution [3, 4].

3.1 The Value of “Physical Education Cloud” to College Physical Education

Through the technology of cloud computing, information interaction and data transmission are more convenient. Users can synchronize with the cloud through their mobile terminals at any time and any place and get useful information or carry out relevant operations. From the perspective of curriculum management, information can be transmitted smoothly and quickly between teachers and students and managers. The classroom model is not limited to the current single teaching, and the class division can also transcend the current model of sports teaching in administrative class. Through the cloud system, students with similar physical quality can be divided into classes without
worrying about inconvenient management and other issues, to truly achieve individualized teaching and improve the teaching efficiency of physical education courses.

In the management of extracurricular activities, the use of mobile terminals and cloud communication can effectively supervise the exercise of students, reduce the burden of teachers and improve the monitoring efficiency, with a high degree of automation and intelligence. In the aspect of sports performance evaluation management, the “sports education cloud” can evaluate students quantitatively from many aspects, with more accurate evaluation indexes, richer evaluation contents, and more fair evaluation results. Using the convenience and effectiveness of information brought by the cloud computing platform will realize a more comprehensive new management model, to change the shortcomings in the current sports mode. It is necessary to cultivate not only the physical quality foundation of students but also their sports ability and interest; We should not only teach students according to their aptitude and treat them differently but also reduce the burden of teachers through the automatic operation of the cloud computing platform.

### 3.2 Educational Value

If the advantage cloud computing brings to the management level is the optimization and quantification of information interaction, the advantage it brings to the education and teaching level is the efficiency and convenience of data transmission. Traditionally, there is a distinction between physical education and sports training. The input of sports training teachers is relatively large, while the number of students who benefit from it is small. In sports training, the feedback between teachers and students is sufficient and targeted, so the improvement of students’ sports performance is relatively fast. Regardless of the purpose of sports training to obtain excellent competition results, as well as the relatively large sports load and intensity, under the intervention of “cloud”, physical education can also get targeted teaching and training in the form of sports training, to improve the teaching efficiency and save the use of resources.

Through the “cloud” connection, students can ask questions to teachers, or even send practice videos to teachers for guidance; they can download professional teaching materials, and they can get the knowledge they need from network resources. Compared with the traditional way of learning, students’ learning is simple, efficient, and targeted. “Cloud” can also find out suitable sports items from the resource base, make sports plans, suggest sports load and intensity, and even prescribe Sports Prescriptions for students by analyzing students’ physique. Students’ situation is also fed back to teachers through the “cloud” in time, to arrange and formulate the next teaching plan. Under the platform of “physical education cloud”, teachers and students, as well as resources inside and outside the class form a classroom that exists all the time. Learning resources are allocated on-demand, and students’ learning efficiency is significantly improved.
4 Develop the Epidemic Physical Education Course of Cloud Computing and Implement the Long-Term Education Mechanism of Epidemic Physical Education

Novel coronavirus pneumonia epidemic period, the relevant school sports department developed a series of home sports courses and family exercise program, effectively protect students’ home sports learning and physical exercise, reflecting the response to the new crown pneumonia epidemic school sports department’s rapid response and spirit, but the school sports department also need to reflect, sports education is important, but not important. Physical education during the epidemic period is also indispensable. It is necessary to develop special epidemic physical education courses and establish a long-term education mechanism. First, improve the national physical education curriculum standards, add and improve special epidemic physical education content. At present, in the learning field of “physical health” in the compulsory education physical education and health curriculum standard (2011 Edition), it is proposed that students should “know the prevention of common respiratory infectious diseases” through learning, but no in-depth explanation is given to the teaching guidance suggestions such as the types of respiratory infectious diseases and specific prevention methods. The “health education module” of the physical education and health curriculum standard of senior high school (2017 Edition) proposed that students should “improve the awareness and ability of prevention and control of AIDS, sexually transmitted diseases, cancer, diabetes, and noninfectious diseases” through learning, but did not put forward the teaching and learning guidance suggestions for the prevention and control of respiratory infectious diseases. The national physical education curriculum standard must add or improve the relevant curriculum requirements for the prevention and control of respiratory diseases. Specifically, it can be considered to add or improve the special disease prevention knowledge, special exercise content and scientific exercise method guidance suggestions, leading the development and implementation of epidemic physical education curriculum. Second, school departments should actively develop characteristic epidemic physical education courses, and take epidemic physical education as an important educational work in the regular period. Disaster often occurs in a short time. School departments need to do physical exercises and sports skills education to protect students’ life safety at ordinary times. Schools at all levels and all kinds of schools should carry out physical education courses with epidemic characteristics, relying on experience courses, school-based characteristic courses and other courses, carry out long-term education of epidemic physical education, help students to reserve health knowledge, master necessary exercise methods, improve physical health level, to prevent accidents.

5 Conclusions

The novel coronavirus pneumonia is a national examination and examination of the national governance system and governance capacity. It is also a test for the national sports undertaking. Under the environment of “physical education cloud”, the
development of physical education curriculum can pay more attention to the needs of students, the distribution of resources according to needs, the content of physical education teaching is not limited to the form and location, more flexible and efficient. “Physical education cloud” can closely link extracurricular activities with the classroom, stimulate students’ awareness of sports participation, cultivate students’ sports habits, activate the school sports atmosphere, and enable students to exercise in extracurricular sports activities while obtaining a happy emotional experience. Novel coronavirus pneumonia is a necessary and responsible part of school sports. It is necessary to take part in coping with the new crown pneumonia epidemic crisis, overcome the inconvenience of teaching space and time, give full play to the protection of students’ life safety, activate the development of family sports, maintain healthy China’s construction, help to prevent and control the epidemic situation scientifically. The special mission of novel coronavirus pneumonia is to carry out active duties in-home sports education, physical education curriculum construction, physical education teachers participation and sports science research, and play the role of school sports in coping with the outbreak of new crown pneumonia.

References

1. Novel coronavirus infection was monitored by the Standing Committee of China’s Political Bureau of the CPC Central Committee (EB/OL). http://cpc.people.com.cn/n1/2020/0126/c64094-31562527.html. Accessed 26 Jan 2020
2. Editor in chief of China Association for the promotion of Sinology education, p. 6. Zhouyi Genealogy. Qingdao press, Qingdao (2017)
3. Pan, L.: Discussion on physical education teaching mode. Central China Normal University (2002)
4. Ge, B.: Study on the overall optimization of physical education teaching mode. Northeast Normal University (2007)