

Study on the Working Mechanism of Public Health Security in Colleges and Universities in the Post-Epidemic Era

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Abstract: The high concentration of personnel in colleges and universities is an easy place for public health events. The lack of awareness of public health crisis among teachers and students, the high mobility of students and the difficulty of Public Health Security Prevention make the campus a weak place for public health prevention. The outbreak and global spread of 2019-nCoV had a tremendous impact on social, economy, life and way of thinking, which posed a severe test on public health safety. In the post-epidemic era, under the situation of normal epidemic prevention and control, how to establish and perfect the mechanism of public health safety in colleges and universities, to deal with public health emergencies and to strengthen the management of Public Health Safety in colleges and universities is worthy of deep thought and great attention. By means of the study on the mechanism of public health safety in colleges and universities in the post-epidemic era, this paper emphasizes the importance of public health safety in colleges and universities, analyzes the deficiencies in the management of public health in colleges and universities, and establishes the working mechanism of public health safety in colleges and universities. This can strengthen joint-prevention and control campus public health safety management, enhance the capacity of rapid handling of public health emergencies, to ensure the safety of life and health of teachers and students.

Keywords: Post-Epidemic Era; Public Health Safety in Colleges and Universities; Working Mechanism; Joint Prevention and Control; Rapid Disposal Capacity.

1. Introduction

As the covid-2019 epidemic became more routine, the global epidemic was largely

contained, with occasional outbreaks, but for three years prevention and control of epidemic had a profound impact on all aspects. Because of the long duration of the epidemic and its far-reaching impact, the post-epidemic era has seen profound changes in society, economy, culture and People's way of thinking, in particular, the public health security has a deeper understanding of the public health security put forward a severe test.

Public health, mainly refers to the public utilities related to the People's health, including the prevention, control and treatment of major diseases, especially infectious diseases; The supervision and control of food, medicine and public environmental hygiene; as well as related health propaganda, health education, immunization and other aspects. Public health events spread quickly, have a wide range of impacts, and are highly concerned by the society. They are easy to cause panic and form civil disorder.

The university personnel is dense and high liquidity, the public health security consciousness and the management are weak, easy to break out the public health incident, causes the serious consequence [1]. In particular, the outbreak and spread of the covid-2019 epidemic has once again posed a wake-up call to the public health safety work in colleges and universities, In accordance with the requirements of the National Health Commission and the Ministry of Education to routine epidemic prevention and control requirements, colleges and universities should strengthen health education and prevention, perfect the mechanism of joint prevention and control, carry out scientific policies and be precise in prevention and control, effectively reduce the incidence of sudden public health crisis, maintain campus security and stability.

2. The Necessity of Establishing the Mechanism of Public Health Safety in Colleges and Universities

2.1 To Establish the Mechanism of Public Health Safety in Colleges and Universities is Necessary to Prevent and Control the Occurrence of Public Health Events in Colleges and Universities

All kinds of public health crisis events happen from time to time in colleges and universities every year, which brings great pressure and severe challenge to the safety management of colleges and universities. Because of the characteristics of collective life in colleges and universities, teachers and students have weak public health consciousness and are not sensitive to the identification and treatment of public health crisis events [2]. Common in the outbreak of infectious diseases, food poisoning and psychological crisis. Tuberculosis has been the infection of various universities, seasonal influenza caused some schools closed, psychological crisis and food poisoning also occur from time to time, especially the global spread of the covid-19 epidemic, normalized epidemic prevention and control on campus public health security has brought more severe challenges.

2.2 To Establish the Mechanism of Public Health Safety in Colleges and Universities is Necessary to Prevent and Control the Complexity of Public Health Events in Colleges and Universities

Due to the high concentration and mobility of people, it is difficult to prevent and control infectious diseases, easy to cross-infection, resulting in a large outbreak. The complex surroundings of colleges and universities, with many floating vendors and food stalls, make it difficult to clean up completely, which brings great risks to the food safety of colleges and universities [3]. College students are not mature in thought and psychology, facing the role adaptation of independent life and collective life, the emotional world of adolescence, and the pressure of study and employment, the psychological health problems of college students are often accompanied by complex social problems, which make it difficult to deal with the unexpected situation caused by the psychological crisis of college students. It is very difficult and complex to prevent public health safety incidents in colleges and universities, so it is necessary to establish

effective public health prevention and control mechanism.

2.3 To Establish the Mechanism of Public Health Safety in Colleges and Universities is Necessary to Prevent and Control the Harmfulness of Public Health Events in Colleges and Universities

As a result of the canteen centralized eating, once the food procurement, storage, processing, marketing process by contamination or management is not in place, leading to food expiration, will lead to large-scale food poisoning. Because of the students' collective life style, once the occurrence of infectious diseases and other public health events, will inevitably lead to cross-infection, resulting in a large-scale outbreak of the epidemic. Public health events in colleges and universities spread quickly, affect a wide range, do great harm, easily cause panic, cause widespread social concern, will seriously affect the normal teaching order in schools.

Therefore, attaching great importance to public health safety in colleges and universities and strengthening the management of public health on campus are the basic requirements for ensuring the safety of teachers and students' lives and physical health, as well as the important guarantee for ensuring students' all-round development, is to maintain campus security, stability and the necessary premise of normal order.

3. The Problems in the Mechanism of Public Health Safety in Colleges and Universities.

3.1 The Mechanism of Public Health Prevention and Control in Colleges and Universities is not in Place

The work of public health and safety in colleges and universities involves many departments, such as logistics, students, ideological and political work, security, university hospitals and secondary departments. There are problems of unclear responsibilities, Information asymmetry and untimely disposal.

3.2 The Strength of University Public Health Prevention and Control is Insufficient

The prevention and treatment of public health

needs strong specialization, the funds of various colleges and universities are generally quite tight, the main energy and funds are invested in teaching and scientific research and other core work, and the investment in public health is relatively small, it is difficult to meet the requirements of mental health consultation, food safety management, medical service and so on [4].

3.3 The Ability of University Public Health Disposition is Insufficient

The prevention and treatment of public health security crisis requires high professionalism of emergency management and high response and disposal capacity and speed. However, the frequent public health crises in colleges and universities in recent years have exposed the public health safety work in colleges and universities, when public health incidents occur, they are reported layer by layer, coordinated by many parties, and blamed each other. The speed of treatment is slow, and the ability of effective treatment is insufficient.

3.4 The Public Safety Education Mechanism in Colleges and Universities is Lack of

Due to the lack of public safety education, the awareness of preventing infectious diseases is not strong among college students, the awareness of food safety is not enough, the knowledge of public health is not enough, some students live independently for the first time, and their ability to live is not strong, lack of experience in dealing with interpersonal relationship, lack of ability to resolve psychological problems, easily lead to public health and safety incidents.

4. The Solution to Establish and Improve the Mechanism of Public Health Safety Work in Colleges and Universities

The key to public health safety in colleges and universities lies in education and Prevention in daily management, with “Early detection, early reporting, early isolation, early treatment ” awareness and ability[5].

4.1 Improve the Mechanism of Responsibility for Public Health Security in Universities and Establish a Rapid Response System

In accordance with the principle of “Prevention

first, joint prevention and control, timely disposal” , to establish an efficient work and rapid response mechanism, under the guidance of the local departments of Health, Disease Control and market supervision, to establish a responsibility system for the prevention and control work that the principal is in charge of and the leaders in charge of the school should pay particular attention to, and divide the responsibility into departments and implement it into people, further clarify the main body responsibility, department responsibility, and strengthen the assessment and accountability of responsibility, rationalize the working mechanism of public health safety. To establish an organization with clear thinking, clear responsibilities, Clear Division of labor and smooth coordination, and take overall responsibility for the Prevention, management and disposal of public health incidents in the school, for the unified command, integration of forces, more efficient response to all kinds of emergencies played an important role[6].The improvement of public health safety work system, programs and emergency plans is the prerequisite for timely and rapid disposal of all kinds of public health events.

4.2 Adhere to Universalized in the Mechanism of Universal Health Education and Ensure that Public Health Education is Fully Covered

To public and popularize the knowledge of prevention and control of infectious diseases and public health emergencies, to raise the awareness of protection and the level of public health on campus of all teachers and students, to strengthen the daily monitoring, to find cases and to take effective prevention and control measures in time, quickly cut off the transmission of routes to control the spread of the epidemic and spread. Carry out health education and life education, popularize scientific knowledge about healthy living, and improve students' health literacy[7].The contents of knowledge and skills of infectious diseases prevention and control should be included in the entrance education, and the health literacy and self-protection ability of students should be emphasized, by means of compulsory courses, new media and campus activities, health safety education and health knowledge popularization should be strengthened, basic knowledge of disease

prevention should be mastered, and awareness of disease prevention and self-protection ability of teachers, students and parents should be improved. To educate students to develop a healthy lifestyle of frequent hand-washing and frequent ventilation, which has a good effect on respiratory infectious diseases such as influenza, to guide students to develop a self-disciplined and self-loving lifestyle, it has obvious effects on the prevention of contact infectious diseases such as AIDS and hepatitis B, it can effectively protect students by guiding teachers and students to take the initiative to vaccinate, it can also provide psychological health education for college students and pay attention to students' psychological problems, to provide mental health counseling services for teachers and students to reduce the incidence of psychological crisis.

4.3 Improve the Precise Prevention, Control and Early-Warning Mechanism and Improve the System for Preventing Infectious Diseases

The problem identification and risk judgment of public health emergencies is a difficult problem in epidemic response [8]. To carry out the prevention and control of infectious diseases by means of the rule of law thinking and the way of the rule of law, giving priority to prevention, constant preparation, timely discovery, scientific research and judgement, early warning, effectively preventing the spread of crisis and minimizing the impact.

Although the public health security crisis event has the paroxysm, but the infectious disease's spread generally can experience the latent, the accidental, the outbreak, spreads such a process, some diseases have the seasonality and the omen, if we can grasp the law of infectious diseases in advance, timely prevention and intervention, we can greatly reduce the risk of public health crisis [9]. For example, influenza and psychological diseases, which have obvious seasonal and basic rules, can be found in time at the budding stage through such mechanisms as follow-up registration of absence from work due to illness and regular investigation of Students' psychological status, early Intervention investigation, effective intervention, in order to avoid the occurrence of public health events for time.

Strengthen the school canteen health and food safety inspection, the implementation of the most stringent standards, the strictest supervision, the most severe punishment, the most serious accountability of the “ Four strictest ” supervision to ensure food safety, ensure that no food safety incidents occur; Carry out patriotic health campaign to ensure environmental hygiene, effectively eliminate the “Four evils” and reduce the occurrence of diseases; To establish and perfect the system of health check-up for teachers and students, to work out the management measures of health check-up for teachers and students, and to include such items as tuberculosis screening DR chest X-ray in the compulsory check-up items of routine check-up for students in schools, to organize an annual health check-up for the teachers and students in school every year, strictly control the source of infection, cut off the transmission route and protect the susceptible population; To register and collect the absenteeism due to health reasons by school doctors, to track and observe, to analyze its development trend, to take further measures when necessary, to keep abreast of the trends of staff and students in a timely manner, to master the physical and psychological status of teachers and students in real time; Strictly implement the reporting procedures of major public health incidents in schools, implement the “Daily Report, Zero Report” system, improve the digital emergency management system, use big data, to strengthen the surveillance, analysis, early warning and disposal of the high incidence of infectious diseases in autumn and winter can greatly enhance the ability of prevention and control and early warning, and effectively prevent the outbreak of public health events.

4.4 Establish a Rapid Disposal Mechanism to Effectively Prevent the Spread of Infectious Sources

Allocate professional personnel and materials, strengthen the ability of emergency handling, improve the emergency plan of public health disposal, and carry out regular emergency drills for public health incidents, so as to improve the ability of teachers and students to deal with crises[10]. In the event of collective food poisoning, cases of Class A infectious diseases, outbreaks of Class B infectious

diseases, outbreaks of nosocomial infections and other health emergencies, the school hospital and the relevant departments of the school should report to the leading group of the school's public health emergency immediately, and report to the local center for Disease Control and prevention by the fastest means of communication within 2 hours, at the same time to the higher education administration department report. No department or individual may conceal, delay or falsely report, or instruct others to conceal, delay or falsely report public health emergencies. Once a public health safety incident is discovered, an emergency response mechanism is immediately activated, and each department responds quickly and accurately according to its responsibilities, taking effective measures under the guidance of the departments of Health, Disease control and Medical departments, timely disposal, coordination of epidemiological investigation, close contacts centralized medical observation and disinfection, and other work, timely elimination, to prevent large-scale outbreak of public health events.

4.5 Improve the Mechanism for Dealing with the Aftermath and Reduce the Negative Impact on Society

In the age of self-media, students' ability to use information tools is very strong, the proliferation rate is very fast, easy to mislead public health events, increase panic, cause unnecessary trouble. Make a good job in news reporting, strengthen the guidance of public opinion and strengthen positive propaganda. Strengthen public opinion monitoring, set up public opinion observation, feedback, notification mechanism, strictly prevent public opinion hype, to prevent anxiety and panic. To do a good job of ideological work for students and parents, to stabilize their emotions, to establish a tracking mechanism for students in crisis, to do a good job of care and help, to help students successfully complete their studies and grow up sustainably and healthily, conducive to eliminating the impact of public health events [11].

5. Conclusions

In the post-epidemic era, under the situation of normal epidemic prevention and control, colleges and universities should attach great

importance to the work of public health safety and establish and improve the mechanism of public health safety in colleges and universities, based on the establishment of a long-term management and emergency handling mechanism of "Prevention-oriented and combination of prevention and treatment", to improve the ability of rapid response and emergency handling, "Early detection, early diagnosis, early reporting, early isolation and early treatment", to ensure that public health incidents can be dealt with in a timely, scientific and effective manner to control the spread of the epidemic, strengthen the management of public health safety on campus, strengthen the ability to deal with public health emergencies, ensure the safety of life and health of teachers and students, and maintain the stability of normal teaching and life order in schools.

References

- [1] Wang Shitang, Li Yulin. Study on the emergency response mechanism and safety rescue of Public Health Emergencies in colleges and universities. Journal of Liaoning Administration College. Volume 8, No. 12, 2006
- [2] Zhang Yanmei. Study on countermeasures of public health crisis management in colleges and universities. Master of Shanxi University of Finance and Economics thesis, March 15, 2011.
- [3] Xu Xiaole. Crisis management of Public Health Emergencies in colleges and universities. Master of Soochow University thesis, 2005.
- [4] Gu Yingxian. Strengthen Public Health and safety education and lay a solid foundation for campus cultural construction. Education and Teaching Forum, 2020(11): 13-16
- [5] Long Haibo. Reflections on the improvement of Public Health Emergency Management System. Journal of Chongqing University of Technology Science, 2020(6): 1-4
- [6] Zhang Shujun. Promote the modernization of the national emergency management system and capabilities. China Discipline Inspection and supervision newspaper, 2020-02-13
- [7] Teng Xueqin. Reflections on the Education

- and management of college students in public health emergencies. Chinese adult education. 2010, (December)
- [8] Gao Xiang, Yu Jianxing. Public governance mechanism in COVID-19 epidemic prevention and Control: information, decision-making and implementation. *Governance Study*, 2020(2): 41-50
- [9] Huang Xiaoqian. How to do a good job of public health security prevention under the vision of Big Data. *Economist*, 2020(6): 8-9
- [10] Xu Zhaoguang. To probe into the countermeasures of safety and stability work in colleges and universities against the background of public health events. *Think Tank Times*, 2020(2): 247-248
- [11] Dong Ming Ming. A study on the construction of crisis management system in colleges and universities. Beijing: China Science and Technology Papers Online. 2011.