

Study on Emergency Management Strategy in Universities under the Background of Epidemic Prevention and Control

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Abstract: The work of epidemic prevention and control in Colleges and universities is a systematic work, involving multiple content sections and competent departments. In the process of epidemic prevention and control, colleges and universities are not only the basic units for the prevention and control of epidemic situation in the whole society, but also undertake important tasks such as on-site rescue and epidemic scientific research. Compared with the new standards for prevention and control of coronary pneumonia, colleges and universities should make good preparations for the storage of school materials for prevention and control, isolation areas, environmental health, and so on, so as to improve the ability of teachers and students to prevent and control the epidemic.

1. Introduction

Due to the lag of higher education reform, the hardship of cultural change, the difference between the consciousness of higher education workers and the requirements of the times, and other factors, there are still large gaps and many deficiencies between the management model of college students and the rule of law spirit of running schools according to law, the humanistic feelings of students, and the objective requirements of information technology and scientific thinking, which are particularly prominent in the response to the epidemic [1].

The COVID-19 has promoted the informatization process of accounting. Although the online reimbursement business of colleges and universities has been gradually carried out in recent years, it is mostly covered by the subordinate colleges and universities or provincial colleges and universities and other institutions with large scientific research funds. The popularity of local colleges and universities using online reimbursement business is low, or even if online reimbursement platform is used, the scope of use is relatively limited [2]. For the declaration of escrow funds, personal income the distribution of student awards and grants has not been fully carried out.

In the face of severe epidemic, the Ministry of Education adjusted teaching arrangements in a timely manner and put forward the idea of "stopping teaching and learning" to meet the needs of education and teaching in special periods [3]. The COVID-19 is a "big exam" to test the management level and management ability of schools in a highly uncertain environment [4]. As one of the main positions for implementing adult education, regional adult colleges and universities must shoulder the mission and face many challenges and opportunities brought by uncertainty in the face of various uncertainties caused by the COVID-19.

As a special social organization, colleges and universities have unique attributes such as social sensitivity and subject activity when dealing with the epidemic. Colleges and universities shoulder the important missions of talent training, scientific research, social services, cultural inheritance and innovation, international exchanges and cooperation, etc. The health of teachers and students and the safety and stability of campus have always been valued and concerned by the government, the public and the media.

The construction of public health safety and its ability to prevent, control and handle public health emergencies in Colleges and universities has always been the focus of attention of the administrative departments of education at all levels. After long-term construction, Chinese colleges and universities have basically established emergency response mechanisms (plans) to deal with public health emergencies, but their integrity and effectiveness are still inconsistent. The epidemic situation of new coronary pneumonia is very infectious [5,6]. However, professional medical and disease control systems lack sufficient research on its characteristics and infectious treatment mechanism.

During the isolation period of epidemic prevention and control, people tend to have bad moods, and reading can heal them. Therefore, university libraries should take measures to meet current conditions, strengthen epidemic prevention and control propaganda and education, push forward epidemic prevention-related knowledge, increase epidemic psychological guidance topics, etc. They can also recommend music, art, literature and other aspects of content, provide mental food for readers, make the library the main position of epidemic prevention and control propaganda and education in Colleges and universities, and assume the responsibility of cultural and educators in University libraries.

2. Organization and Management of Epidemic Prevention and Control in Colleges and Universities

In the work of epidemic prevention and control, the working group for epidemic prevention and control established by colleges and universities can recruit archivists to coordinate the collection, transmission, publication and filing of related working documents, participate in the whole process of epidemic prevention and control, and ensure where the epidemic prevention and control work extends and where the archival work follows [7]. Master the file archiving situation in an all-round way, guide the problems that occur in the file archiving work, and ensure that the file is controlled throughout and the work is in place.

As a place where many energetic young people gather, colleges and universities are responsible for training high-quality and excellent talents [8]. After public health emergencies, how to actively explore and deal with them, reduce or reduce the harm of public health emergencies to normal teaching order and the safety of teachers and students' lives, has become an important topic of crisis management in Colleges and universities. Starting from the theory of crisis management, we should actively explore the crisis management mechanism to deal with public health emergencies so as to further promote the normalization of crisis management.

Different scholars have different definitions of the term "capacity". The capacity defined by the

United Nations Sustainable Development Project Group is the ability of an organization or individual to perform its established functions effectively, continuously and efficiently. Emergency management in Colleges and universities means that by establishing the necessary response mechanism, schools take a series of necessary measures to prevent and resolve crisis events, in order to restore normal teaching order, ensure normal teaching activities of teachers and students, maintain the stability of the campus, and promote the harmonious and healthy development of the campus [9]. Emergency capability, as its name implies, is the ability to manage emergencies. as is shown by equation(1).

$$sim(u, v)_{ACOS} = \frac{\sum_{i \in I_{u,v}} (R_{u,i} - \bar{R}_u)(R_{v,i} - \bar{R}_v)}{\sqrt{\sum_{i \in I_u} (R_{u,i} - \bar{R}_u)^2} \sqrt{\sum_{i \in I_v} (R_{v,i} - \bar{R}_v)^2}} \quad (1)$$

First, the information transparency is not high, and the information grasped by school and student management staff and students is not symmetrical. Second, ignoring the students' right to know and not treating them as the main body of running a school. The lack of humanistic care and the expression of authoritarianism in the current information communication process have greatly affected the credibility of university administrators and the effectiveness of management work, and the psychological expectation and stability of students, as is shown by table1. The practice of epidemic prevention and control shows that the more transparent the information, the more stable the students' mood.

Table 1: Credibility of university administrators and communication

No	Organization	Functions	Emergency	Communication
1	0.36	1.6	105	23.9
2	0.56	5.3	203	63.8
3	0.69	3.6	605	65.8
4	0.99	4.2	123	45.3
5	0.23	1.2	545	78.2
6	0.63	8.3	785	45.1

As shown in Table 1, Since the outbreak of the new crown epidemic, colleges and universities have postponed the opening of school. During the non-opening period, the accommodation fees for students who have returned from school, the materials for epidemic prevention before the opening of school, the drills for starting school, the emergency treatment after the opening of school, and other income and expenditure accounting are new businesses facing the financial management of colleges and universities. Specifically, in terms of income, in 2021, due to the impact of the epidemic, the overall financial reduction of travel expenses, conference expenses, training expenses, going abroad on official business and other funds, the financial recovery of funds allocated for basic expenditure at the beginning of the year, schools accept funds and materials donated by society.

Due to the emergence of the new coronary pneumonia epidemic and the overall development of online teaching, the uncertain state of regional adult college development is highlighted in a short period of time. To clarify the uncertainty faced by the management of regional adult colleges and universities with the breakthrough point of the new coronary pneumonia major epidemic crisis, it is both timely and especially important to improve the crisis management of regional adult colleges and universities in the modern risk society [10].

Taking the new crown epidemic prevention and control as an opportunity, establish and improve the crisis management mechanism in Colleges and universities in China. 1. Leaders attach importance to it. As an ideological, knowledge and academic front for disseminating advanced

culture, universities should take a step ahead in the practice of crisis management strategy theory. 2. Increase ideological awareness. Enhance awareness of crisis prevention and management. Change our minds and take crisis management as the basic means to achieve social stability.

Universities and colleges should set up leading groups for epidemic prevention and control according to the actual situation, and take overall responsibility for the overall and coordinated work of epidemic prevention and control. Members should be composed of heads of secondary colleges (departments) and functional departments to ensure smooth work [11]. Specific work should involve several aspects, under the guidance of higher departments, according to the school's new coronavirus response measures and emergency plans, closely monitor the prevention and control of new coronavirus for teachers and students staff after the opening of school, and make timely warnings.

3. Emergency Management of Public Health Emergencies in Colleges and Universities

In the general education system of colleges and universities, there is seldom health education to deal with public health emergencies [12]. This also leads to the majority of teachers and students' understanding of similar problems come from the network media and movie works. In addition, the overlapping influence of the epidemic period of new coronary pneumonia and winter vacation in Colleges and universities, which leads to the problem of scientific explanation of the epidemic situation and the absence of health protection education. It may lead to the low attention and attention of students to the epidemic of new coronary pneumonia, cognitive bias, and inadequate concept and ability of personal health protection.

During the epidemic, the importance of digital resource services has been further highlighted. Digital resource service is not simply to build a digital library, but to dig deeply into the reader's professional background, knowledge structure, interests and other factors with the help of large data platform, fully respect the diversity of the reader's differences and needs, highlight the concept of "stratification, classification, focus" in the service, and strive to provide personalized digital resource reading promotion services.

As a result of dense personnel and active action, colleges and universities face unexpected public health events with unpredictable occurrence time, location, scale, form and extent of destruction, rapid spread and evolution, high threat to teachers and students' property and life, disrupt normal teaching order, and are easy to be concerned by the government, the media and the public. The epidemic fully exposed these characteristics [13]. The sudden outbreak of an epidemic, as is shown by figure1. The rapid spread of the disease, and the impact of the disease are rare.

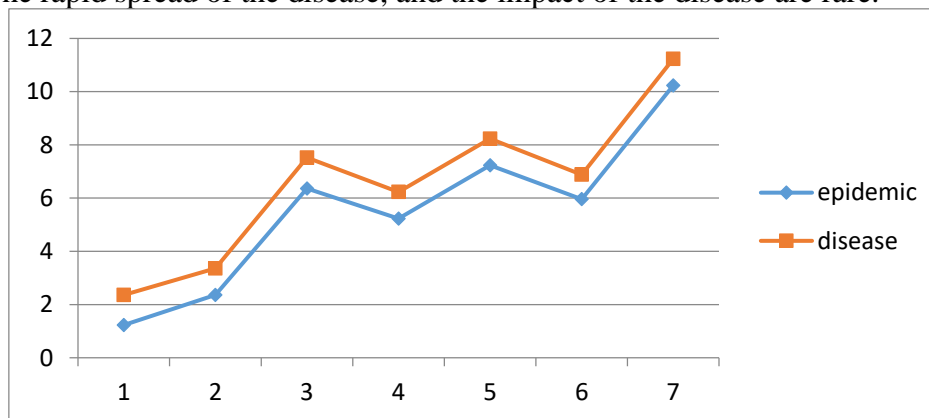


Figure 1: The sudden outbreak of an epidemic with disease.

The new type of coronal pneumonia happens during the winter vacation when the public health

emergency crisis management emergency plan is started. Universities should set up a new coronal pneumonia prevention and control headquarters at the first time, start the emergency plan, and quickly build the working mechanism to fight the epidemic. According to the epidemic situation, the level I response mechanism of public health emergencies should be started, leading groups for the prevention and control of new coronary pneumonia should be quickly formed, joint prevention and control measures should be fully implemented, as is shown by figure2 and a strict line of prevention and control should be established.

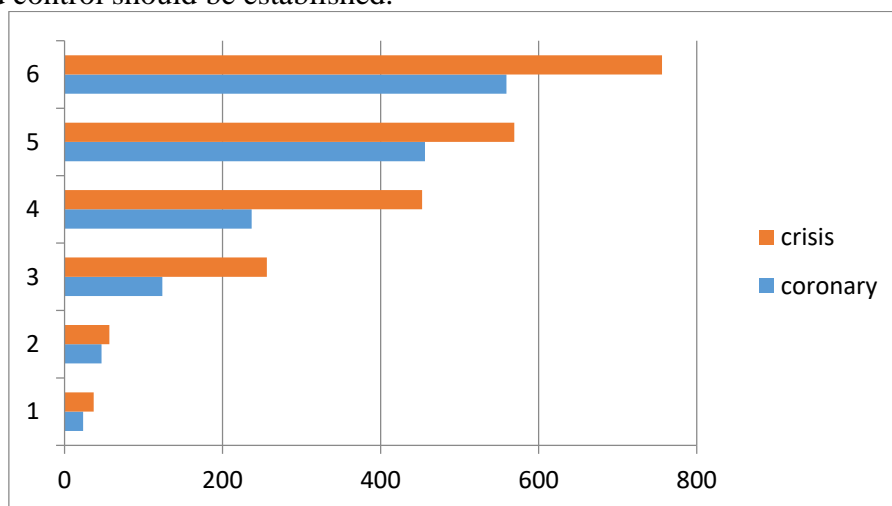


Figure 2: Prevention and control of new coronary pneumonia with crisis.

The management model for prevention and control of new coronary pneumonia is based on the specific environment of colleges and universities. The management model developed for existing resources and latest computing technology in Colleges and universities is very reliable and feasible. Edge Learning, Cloud Computing, and Federal Learning are three computing technologies that are now popular on the Internet. Among them, cloud computing has been applied in major enterprises, and there are rich application models, so it is not necessary to build a service model of cloud computing.

The contemporary crisis presents the characteristics of sudden, destructive, disorder, complexity, high variability, low predictability and urgency, which undoubtedly poses a higher challenge to university administrators. However, University emergencies are different from general social emergencies because of their main activity, sudden occurrence, social sensitivity, widespread scope and serious harm, and put forward higher and more specific requirements for the emergency capability of University administrators.

4. Study on Emergency Management Strategy in Universities under the Background of Epidemic Prevention and Control

First, when facing public emergencies, university administrators should establish a standardized information disclosure system to meet the basic right of college students to know, and highlight the dominant position of college students in handling public emergencies. Secondly, publish and publish public emergency information in accordance with law, transparency, timeliness and accuracy. University administrators should have a set of effective work plans when facing public emergencies.

Making full use of information-based software and platforms, and timely pushing various business processes on the school website and the public number of the Finance Department, such as drawing flow charts of specific business processes such as travel expenses, training expenses, office

expenses, or sorting out related types of business reimbursement operation videos, can more intuitively solve some common problems in the reimbursement process, as is shown by table2. Expand the scope of online reimbursement business, timely purchase of self-service delivery machines, open non-contact self-reimbursement business, reduce the number of times faculty and staff contact the financial office to handle business during the epidemic, let data run more, teachers and students run less. As shown in Table 2.

Table 2: Some common problems in the reimbursement process

platforms	travel	train	business
V	125	2556	Finance
W	236	3655	Reimbursement
U	562	7855	Faculty
P	785	4122	Epidemic

The rapid spread of the new coronary pneumonia epidemic and the existence of normalization in a certain period of time have had a wide and profound impact on the whole society, especially on the entire education system. All types of educational subjects at all levels participated in this "war" without smoke and smoke with their special identities and roles, and played their own unique roles. However, in the epidemic situation, the campus safety prevention and control work and emergency mechanism of the education system also exposed many problems and shortcomings.

The evaluation of university emergency crisis management is an important aspect of university emergency crisis management. Through a scientific and reasonable evaluation system to establish a long-term, effective and active crisis management mechanism for college emergencies, to enhance the awareness and ability of Chinese colleges and universities to deal with emergencies.

The work of epidemic prevention and control needs the cooperation of various departments. (1) School offices: immediately report to the competent authorities at higher levels for any abnormal situation found between teachers and students, and be responsible for the reception work led by the units at higher levels. Strengthen propaganda efforts, as is shown by figure 3, effectively use the campus network, campus broadcasting, propaganda columns and other forms of propaganda, conduct in-depth propaganda and education on the prevention of new coronavirus knowledge, popularize knowledge on virus prevention and control, and guide teachers and students to abide by good health habits.

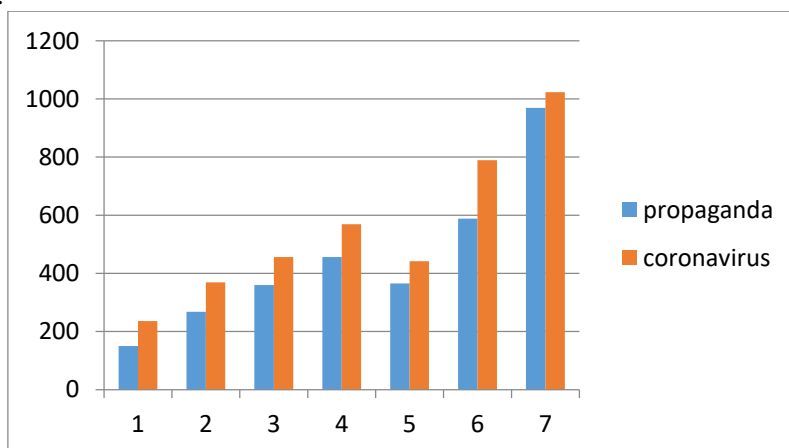


Figure 3: Strengthen propaganda efforts with coronavirus.

Good ideological education of students is the key to stability, prevention and control. We should adhere to the political principle, dredge students' negative pessimism and fear about epidemic prevention and control, boost teachers' and students' confidence in fighting the epidemic, enhance

their ability to recognize rumors and their recognition and support of campus prevention and control work, firmly grasp and rely on the team of counselors and students' members, and do a good job of propaganda and public opinion guidance by using social media platform and campus broadcasting. Highlight the latest epidemic prevention situation, research progress and personal health protection reminders.

Through the practice and exploration in this period of epidemic prevention and control, university libraries should raise their awareness of risk prevention, formulate operational plans, keep in peace, and realize the institutionalization and programmatization of crisis management in University libraries. Each university library should integrate crisis management into its normal work, set up a special group for crisis management from the actual situation of the library, carry out risk assessment and response capacity analysis for different crises, determine needed resources and services, discuss emergency handling procedures, formulate plans, and supplement, exercise and continuously update the plans.

The sudden outbreak of this epidemic shows that the emergent crisis events have the characteristics of uncertainty in the occurrence time, impact range, and dynamic determination of the level of hazards. It makes it difficult for people to accurately judge the scope, scale, speed of transmission and the harm to politics, economy and life in a short time. For archivists, it is also difficult to intervene in advance, and they cannot fully follow the normal working procedures and scheduled emergency management measures.

5. Conclusions

Fully implement the responsibility for epidemic prevention and control. The epidemic situation is an order. The functional departments of colleges and universities take the lead to set up medical aid groups, logistical support groups, epidemic prevention knowledge propaganda groups, network teaching groups, mental health consultation groups, and so on, to arrange on-duty for 24 hours, so as to keep the soil responsible, responsible and responsible.

In order to cope with the severe epidemic of new coronary pneumonia, colleges and universities should take a series of measures to ensure the safety of teachers and students. Through the model of prevention and control of new coronary pneumonia, colleges and universities can analyze the personnel information collected and get the epidemic grade of the school. Schools can take different measures according to the epidemic level.

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