The covid-19 Epidemic, China Containment Contexts and Risk Mitigation, Public Health Lessons Learned is it Feasible for Europe & US

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SHORT COMMUNICATION

Despite the high morbidity and mortality rates of COVID-19 infection china witnessed during the first two months of 2020, and compared to the short time of the epidemic among Wuhan city population in Hubei territory, the response of the health system to the disaster in this country was significantly effective, despite what seemed clear in the early days that the virus was fierce to the point of conquering the capabilities of the country, and it is so explosive, we all had the feeling that China was on the verge of complete collapse within few weeks.

The massive response of the health system in China was tremendous and built on two major strategies, recognizing that the existing battle is an existential battle for which all available energies were to be enrolled whatever losses happen, on the other hand, strict control and preventive public health measures applied through highest available protocols, standards and guidelines no matter what it costs of sacrifices, thus the response led aggressively by health system leadership along with political leadership. The measures and steps applied were quite radical and extremely through the following tactics:

Rapid and Definite Diagnosis and Isolation of Covid-19 Cases

In the case of the COVID-19 outbreak, it showed that within one week of identifying the unknown virus, China successfully sequenced it and reported the genetic information to the World Health Organization (WHO). Compared to other outbreaks e.g. SARS 2003 which took a couple of months to be identified and sequenced out, while it took a few years when comes to HIV in the 1980s. It is obvious that identification of a virus’s genetic sequence is decisive in developing medication, vaccine and testing kits. One of the critical tools in controlling a major epidemic is having specific, reliable, accurate and fast detection methods to screen infected and non-infected people. During the early days of the outbreak in Wuhan, there were no test kits available, and screening depended on laboratory nucleic acid sequencing analysis, a labor-intensive and costly method. The National Medical Products Administration of China took immediate action to speed up the work of biotech companies to develop detection kits. The first kit was introduced on 13 January, with a sufficient supply available two weeks later [1].

Applying 4 Rights Principles: Right Decisions, Right Time, Right Place and Right People

One of the significant strategic steps put in place in china’s response is to listen carefully and follow the instructions of science and public health experts during pandemic events. China’s unprecedented systematic and proactive risk management, based on collaboration between government officials and health experts, has proven to be effective in containing and controlling COVID-19. The timely release of disease-related clinical data to the public and WHO helped many around the world prepare for the spread. Thus, analyzing more than 40,000 cases in China, we know 80% of COVID-19 infected patients will not need medical intervention, while 20% would need medical treatment and care. China’s health system response was the first to raise the risk management response to the highest level in the early days of the outbreak when there were no confirmed cases.

a) Communicating clear guidance about the degree and scope of lockdowns.

b) Ensuring rigors tracking down to individuals, apartments, houses, communities, organizations, public facilities, and city management.
In confronting COVID-19, everyone is sharing equal risk and responsibility. As COVID-19 is extremely contagious, it is more crucial to mobilize all of society and get everyone involved in the process. The key to success is to make everyone engaged in management, get every unit involved and hold officials accountable, and be responsive to new challenges. Careful planning and clear guidance are helpful. Many businesses, organizations, schools, and universities are successfully implementing computer-based online learning using technology like Zoom meetings, which could be models for future development. Large gatherings and multiple person-to-person contacts during an epidemic. China might have lost billions of dollars by essentially stopping all business, yet in the end, this will have been a wise decision and correct action [4].

**Maintaining Effective Public Health Communications**

Major lessons learned from China's response are providing clear and continuous, communication to the public. e.g. The major news outlet provides daily updates on the number of COVID-19 cases and clinical treatment outcomes, plans to be implemented and guidelines and procedures to follow. Public Health mobilization has been invested in fully from the beginning of the outbreak. Easy-to-understand educational materials for students and the public with information about COVID-19 and how to prevent the spread [5].

**The Long Way Forward**

China experienced great loss in the current crisis estimated to be 60 billion USD; about 78% of the total company's workforce in Hubei territory were somehow enforced to stay home and 50% at other territories, yet China is restarting its economy, reopening schools and returning to normalcy. As a report from the WHO-China Joint Mission concluded, a science-based, risk-informed and phased approach is being taken, with a clear recognition of and readiness for the need to immediately react to any new COVID-19 cases or clusters while elements of the containment strategy are lifted. These are some lessons; the global community could learn from China at the national and local levels. This global health risk teaches us the importance of preparedness to prevent and control an infectious disease outbreak. It could also help us think about how to modernize disease control and prevention in China and around the world.

**CONCLUSION**

Initial readings of the COVID-19 outbreak in Europe and the United States of America indicate an accelerating and aggressively growing pattern, daily increasing the incidence of diseases and deaths alike, and the devastating paralysis of public life because of that. Europe and USA health systems' response looks weak in handling the events of the transmissions chain. The phenomenon of a steady expansion of outbreaks without showing signs of effective containment will put the whole world in complex scenarios not far from full of surprises about the ferocity of the virus and its superior capabilities to expand and spread.

**REFERENCES**