

## Disease X: Are we Ready to Tackle the Next Global Pandemic Again?

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### INTRODUCTION

There are a lot of diseases that have caused pandemics around the world and claimed millions of human lives. Some of them are the Ebola virus, zika, and severe acute respiratory disease, or SARS, which made the earth a living hell. It's only been three years since the world saw one of the worst pandemics of all time, and still, some countries have not yet moved on to the next phase of this disaster. Many nations have seen economic, power, health, and human resources collapse due to the novel coronavirus, which came to light in 2019. Recently, again according to the WHO, the prioritized disease for the next pandemic is Disease X. WHO has added this disease to their blueprint list of priorities [1]. The announcement of this disease X was most probably made in 2018 in Wuhan, a variant of pneumonia caused by an unknown etiology. Disease X is a totally new disease that can have the effects of post-COVID-19. The researchers suspected the disease to be of bat origin, similar to COVID-19. This has a 79.5% and 96% overall genome sequence, which was identified as SARS-CoV and bat SARS-related Coronavirus [2]. Recently, the disease was named disease, X, which can have a similar analogous impact as that of the Spanish flu of 1918–1920. WHO estimates that this new potential pandemic can have a 20 times more tragic impact than the Coronavirus. This disease can pose a greater threat to the world than COVID-19 [3]. Disease X can somehow cause human-to-human transmission, as it is probably linked with SARS-CoV [2], which is the transmissible acute respiratory syndrome coronavirus [1]. This concept of disease X can uplift the WHO project to engross their research efforts of all the classes of viruses except for the individual strain, thus regaining more knowledge about the unforeseen strains [4]. This disease can possibly or probably be caused by the pathogen X, of which we don't have any idea yet. This can come into play in an area

where the environment favors sustained transmission to the host. This is most probably related to a zoonotic disease, commonly an RNA virus [5]. According to research, this catastrophic disease can kill more than 50 million people and is far more prevalent than COVID-19. To fight this disease, new research about vaccines needs to be done according to the pathogen. Most probably, the viruses that may be the source of the next pandemic are the virus families of the Adenoviridae, Coronaviridae, Orthomyxoviridae, Paramyxoviridae, and Picornaviridae, estimating roughly two dozen families that have the power to infect humans possessing these characteristics. In today's world, pandemics can take place if there is no immunity among the global population. This pandemic can also spread through airborne transmission, which can be transmitted through respiratory transmission and can also spread through asymptomatic, sick individuals. As of today, there are no vaccinations or medications for this disease, as it is an expected pandemic disease, and there is no certainty for its outbreak. Recommendations for the prevention of the next pandemic before its onset are progressing with the idea of evolving the global surveillance system, which can help in checking emergency situations initially. Promoting health is a process of understanding the interdependence between the human animal and surrounding health in order to understand the risk developing in a later period. A lot of research needs to be done to know about the new uses of upcoming antibiotics in order to improve how antibiotics can be developed and clinically prescribed to patients. Healthcare systems need to gain momentum in order to progress the treatment methods for both pandemics and routine healthcare systems. The most important thing that needs to be noted for the preventive measures is mainly worldwide cooperation, where efforts that are given for research for the upcoming pandemic play a very vital role.

Preparatory plans are also essential for enhancing the pandemic preparedness plans, including the faster response team.

The next outbreak in today's world is way too complex to control. More focus should be given to the development of vaccine research and building up strong health systems and supervision. Also, with time, worldwide collaboration and unity will become stronger, so be prepared earlier before any pandemic arises. It can be likely said that the next pandemic is on its way to arising, and the world needs to be prepared [6]. Therefore, governments of different countries should work together to find a new way to control upcoming pandemics and also to make the world a better place to live.

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