

Novel Coronavirus Disease 2019 (COVID-19): A Quick and Precise Review

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Abstract

Coronavirus belonging to family Coronaviridae is a large group of viruses causing respiratory and gastrointestinal diseases. The outbreak of 2019-novel coronavirus (2019-nCoV) has created panic in the whole world after being transmitted from Wuhan, China in December 2019. A large number of people are affected throughout the world that forced a solitary situation in the affected areas confining common people to their homes to prevent its spread. Cellular receptor in humans for 2019-nCoV are found to be same as for SARS-CoV (Severe acute respiratory syndrome coronavirus), the first human pandemic of 21st century, however, 2019-nCoV is highly contagious, virulent and mutable than the SARS-CoV. The most attractive site for vaccine development against novel 2019 coronavirus is the spike glycoprotein which is crucial for receptor binding, membrane fusion via conformational changes, virus internalization, host tissue tropism or spike inactivation through antibody induced destabilization. Severity and fatality of the current scenario has provoked the health care workers, scientists and pharmaceutical organizations to develop a vaccine to prevent its hazardous effects and transmission. First outbreak was in March 2020 after which the number of affected reduced that created a sigh of relief in the globe. Summer season was considered as one of the aspect combating the severity of spread of virus. For last few days, suddenly a huge outrage is capturing attention of the entire population of earth endangering lives of people irrespective of their ages and communities.

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