COVID-19: The Pattern in the United States

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Abstract

The COVID-19 virus started somewhere in Wuhan, People’s Republic of China in December 2019. It is an infectious disease caused by SARS-CoV-2 that spreads when an uninfected body comes in contact with an infected one. Until May 31st, 2020, a total of **6.1 Million people** has been infected worldwide, out of which **1.8 Million people** are from the United States of America alone which is on the top of this list. The World Health Organization (WHO) declared COVID-19 a pandemic on March 11th, 2020 when over 118 Thousand humans were already infected worldwide. At this point in time, the United States of America stood at **1,200 cases.** However, there has been a spike in the number of cases in the country in states of New York, Washington and California leading the charts initially and now the list looks like New York, New Jersey, Illinois, California and Massachusetts in the top 5 of the worst affected states. With 23 biotech companies around the planet to create a vaccine and/or drug for the virus and 145 different vaccines under investigation and trails, they have been progressing at a rapid pace to treat the affected population with the necessary coordination with the respective governments of the region. **Moderna Inc, Merck & Co Inc, Pfizer Inc, and Novavax Inc** are leading the vaccine manufacturing efforts in the US. Moderna Inc has already started human trails with their **mRNA-1273** vaccine and it has proven to be safe and produced protective antibodies in a small group of healthy humans. On the other hand, Novavax has also started its clinical trials in Australia adding in value to the effort in eradicating the pandemic. Other countries like the Republic of India and the Russian Federation are placing their bets on **Hydroxychloroquine** and **Avifavir** respectively but there is a need for vaccine that will help in defeating this pandemic.