

## COVID-19 - A Destructive Contagious Disease

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### INTRODUCTION

In the month of December 2019, many patients from the Chinese city Wuhan got admitted to the hospitals. They were showing the symptoms like pneumonia. But when the number of patients got rising, there was a strong struggle to isolate the causal agent of that disease. At last, the causal agent was isolated from the bodies of some patients.

At the initial level, it was called as 2019 novel corona virus abbreviated as 2019-nCoV and later on after many experimentations, it was relabeled as severe respiratory syndrome coronavirus 2 abbreviated as SARS-CoV-2. After few weeks, this virus started to spread to the other cities of China and then, this virus strongly spread about in 195 countries of the world. SARS-CoV-2 is the positive-sense comprising of single stranded RNA virus. Its diameter is about 50-200 nm and it has main four structural proteins; spike, envelope, membrane and nucleocapsid.

The function of S protein is that it allows the virus to bind with the host's cell membrane. When we talk about the genomic comparison, it resembles 80% to the *Rhinolophus sinicus* bat and its resemblance with *Rhinolophus affinis* bat is 96%. Some researchers found that its resemblance with pangolins in case of genome is 99%. The incubation period of this virus is about 14 days. In some cases, incubation period may be less than 14 days. The clinical symptoms of this disease are cough, fever, respiratory tract infections, feces infections and even in case of severity convalescent stage.

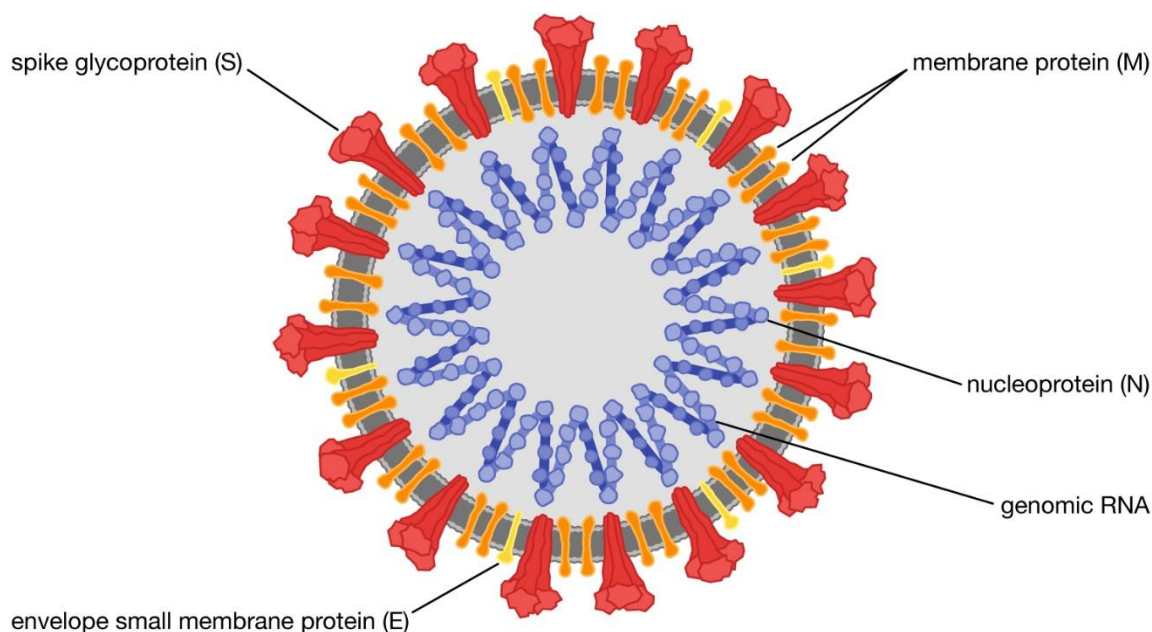
For the treatment of Corona Virus, different antiviral regiments were being tried. Ritonavir and Lopinavir are used in the some trials to cure this disease.

Now, the question arises that how can we prevent from COVID-19. By frequently hand washing at least 20 seconds by sanitizer or soap and water is strongly recommended.

Hand sanitizer with 60% alcohol is also utilized. The human community is also recommended not to touch mucosal surfaces.

If someone shows the symptoms, he must seek immediately to the doctors. They are advised to wear face mask if they show symptoms.

### Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)



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### CONCLUSION

Corona Virus or COVID-19 is a devastating disease and it is highly contagious which spreads through the Virus. It has spike like structure by which it attaches to the host cell membrane. Thus, it causes there strong severe infection after incubation or within incubation period. Fever, cough, sneezing, feces infections and respiratory problems are the big symptoms. So, different medicines are checked in trials but still no one is proper vaccine. By different precautionary measures, we can overcome and control this disease.

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