

How SARS CoV-2 Affected Our Lives

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In September 2019 a data with 31% patients out of 38 are showing an onset of symptoms of infection through Corona virus in their eye.

Serotypes 1-11 and 18, where corneal development is not known.

As COVID-19 pandemic has proven to be quite an alarming condition for our society and the world as being a global crisis.

On discussing how this pandemic condition has affected me personally. So, being a final year Optometry student my duration for internship got delayed as our final semester itself gets delayed.

Though it did not stop of thinking about how this pandemic condition has arise and tends to think about pathogenic nature of SARS Cov-2 in humans and finding various steps and methods on how we can help other health care providers and their society.

As in my perspective it all started in September 2019 in China where 31% patients out of 38 were symptomatic showing its onset by infection through COVID-19.

This gives me an indication to stay alert and to know more about it going through further studies about what actually is SARS CoV-2.

By actually doing it what I found is SARS CoV-2 is an enveloped ss RNA that causes COVID-19. Symptoms occurs at 2 days or as long as 14 days which is its incubation period.

Severe Acute Respiratory Syndrome Novel Corona Virus-2 which previously known as 2019 nCoV is highly contagious causing COVID-19 which is basically a respiratory illness.

As described by NIH it is the successor of SARS-CoV-1 and WHO has designated the ongoing pandemic of COVID-19 a public health emergency which is of concern.

Further as this pandemic spreads and Indian government takes a massive action of lockdown it made me think as how this SARS-CoV-2 can affect our eyes, lungs, throat and various other vital organs.

On further studies it made me come to a conclusion that this virus of Corona viridae family is causing an acute follicular conjunctivitis in human eye as its a virus, so it's in acute form.

This complex form of conjunctivitis basically shows treatment procedures similar to (EKC) when caused by serotypes 1-11 and 18 so, question arises here that will the treatment procedures be of Antiviral or some other mode vaccines?

As both are valuable tools in combating COVID-19.

Scientist around the world are working on potential treatment and vaccines for this new coronavirus disease known as COVID-19.

Several countries are working on Anti - viral drugs, some of which are already in use against other illness to treat people who already have COVID-19.

A classification system for the class of virus is well developed.

Illustration of a SARS CoV-2 Virus classification

Unranked - Virus.

Kingdom - Orthonovirae.

Phylum - Pisuviricota.

Class - Pisuniviricetes.

Order - Nidovirates.

Family - Coronaviridae.

Genus - *Beta-Coronavirus*.

Sub Genus - Sarbecovirus.

Species - SARS -Related Coronavirus.

Patients which use contact lenses and optical need to get its hygiene maintained as they may also cause the infection to our eye.

As of May 8 2020, three medications had received emergency use authorisation from the (FDA).

The anti - malaria drugs Chloroquine, hydroxychloroquine, Anti-viral Remdesivir and a drug used to sedate people on ventilator. As (EUA) allows doctors to use these drugs to treat people with COVID-19 even before the medication have gone through formal FDA approval process.

On focussing a recent review scientist from the journal of pharmacology from UK called for wider screening of existing drugs to see if they might work against Corona virus.

As this has been a Huge pandemic which has lead to a large number of deaths and still counting, It made me think about a rare fungal species *Exserohilum rostratum* which is mainly found in grass and soily areas of Asia and nearby.

This, species has mainly come on front as reporting at least a dozen case around the world which also comprises in it a case of keratitis in which one of them further got treated in Ophthalmology department of Ching Mai University, China.

On giving attention to it brings to a conclusion that this rare class of fungus also causing Meningitis in several cases, which was earlier caused by Cryptococcal Encephalomeningitis.

This made to realise it as a threat that why this classes of fungus and viruses which are so rare at recent are spreading rapidly around the region's of Asia answer to such a worries is humidity in the continent of Asia and its nearby in recent years.

As fungal species earlier was never known to be pathogenic to humans but this fungal Genus has proven itself to be pathogenic.

Somewhere, it made to realise that Global Warming which we have been discussing for so long now is proving to be responsible for humidity.

In the coming future as we need to solve these major issues, at first we need to work on protecting our environment by taking control over global warming which will further help to save us mankind.

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