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Review Article

A Breif review on corona virus and its vaccination

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Abstract

COVID-19 (CORONA VIRUS) caused by the SARS-COV-2 (Severe acute respiratory syndrome corona virus-2). This pandemic has created a huge destruction to us a great civilian loss and also economical loss had took place due to this pandemic. As the vaccine may discovered we need not fear about the corona. but we need to take some of the precaution to maintain or get rid of it until vaccination Done .as the vaccination is very long process and until everyone get vaccinated, we need to maintain social distancing, avoiding touching people, wearing masks protective shields and also by following sanitisation. in India the chance of getting COVID-19 cases is very rare because about 60% of people are middle aged and only 6% people are old aged as the corona only severity for old aged people only.

Keywords: COVID-19, pandemic , SARS-COV-2, vaccination, sanitization, NIMHAN.



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Introduction

In December 2019 it was first identified at Wuhan – china [1]. It only targets the mammal's respiratory system. There are four types of coronaviruses (i) alpha, (ii) beta, (iii) delta, and (iv) gamma. Mostly it may attack animals but alpha and beta types pass through human beings. The SARS coronavirus — was responsible for the severe acute respiratory syndrome (SARS) — it was entered in China in 2002. It only affected the populations of mainly mainland China and Hong Kong, and it was disappeared in 2003.

Another variant MERS coronavirus — responsible for the respiratory syndrome identified as the Middle East respiratory syndrome (MERS) — was suspected in 2012 in Saudi Arabia. It has led to several deaths about 858 people are died since then [2]. Some of the common carriers are bats. Specialists should not be able to determine the true source of the virus or even confirm whether there was a single origin source. CDC warns people that even if they have no symptoms or infections it can pass on the virus. an asymptomatic period after the exposure of the virus lasts for 2 – 14 days [3].

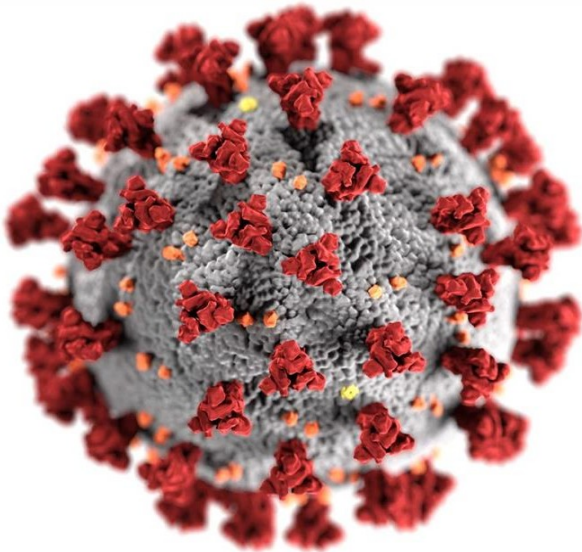


Fig 01: Structure of Corona Virus

so that people maintain precautions such as

- Should Wash hands regularly
- Often use alcohol based hand sanitizers
- Donot touch mouth,nose and ears
- Wearing face mask
- Maintaining social distance
- Cover your mouth and nose with your tissues ,hand kerchief or a bent elbow when you sneezing or coughing

- It is better to through away the used kerchief instead washing
- It's more reliable to stay home if you observe unwellness.
- If you own a temperature, cough, and taking a breath is difficult, it is better to be under medical care.
- Avoiding unusual physical activity with people [4].

Symptoms may began after 1 to 14 days after the exposure of COVID – 19, 81% will have mild or moderate symptoms (mild pneumonia), 14% will suffer with severe symptoms (dyspnea , hypoxia) 5% are severe symptoms (respiratory failure, shock ,several organ dysfunction) [5]. The virus that causes corona spreads mainly by getting close physical contact with infected person by normal person [6,7].

According to CDC the symptoms are s

- diarrhea
- loss of taste and smell
- fatigue
- headache
- runny nose
- fever
- chills
- cramps or muscle pain

Older people live likewise possible to have the most critical manifestations of the coronavirus. At least a 1/3 rd part of the personalities are staying affected with this virus remain no symptom and may not develop observable symptoms at any point in time, but they still can increase the spreading of corona [10,11]. Around some people, about 20% of infected will remains are not having any symptoms during the epidemic, the rest of them will have the signs, later on, shifting pre-symptomatic rather than asymptomatic and hence becoming a greater opportunity of spreading the virus to others [12]. Some characters continue to have a variety of outcomes—known as long COVID—for some periods later healing, and destruction to organs has been scrutinized [13].

Multi-year investigations are undertaken to further investigate the long-term consequences of the condition [14]. “Modern data recommend that this virus can generate light flu-like manifestations equally as extra severe illness. Most utmost of the personalities appear to have light conditions, and up to 20% arrive at the improvement to exceeding difficult disease [15].

India unexpected for the second wave of Covid-19 pandemic

Although it might spreading rapidly ,experts reported that it might not be sever than the first wave. Neuberg Diagnostics, an Indian laboratory company, held a panel discussion about “Coronavirus – variants and vaccination” to seek health experts’ views on the subsequent waves of the pandemic. will be milder and hopefully get rid of it escape quicker than the initial wave, as just 6% of the community is overhead 60 as it strength be striking for just the more past ages earlier 60. “as the wave among June and September, throughout 1.2 lakh examinations did in every day. It has got dropping by 75,000, which can guide to different wave. Affected regions will be behind for at least another year till everyone is protected by the vaccine. But a lockdown command is the last weaponry.

“secondary cause for variations is extensive communities being affected, attending to immune-escape variants,”. Individual conveniences are delivering for administration guidelines on immunization, said Dr. Saranya Narayan, chief microbiologist at Neuberg Diagnostics, but unofficially, they have said that the vaccine could be priced at nearby `250 per dose for the citizens. “It is not anticipated to cost above Rs 1,000. We catch it may be nearby `250,” Dr. Saranya said [18]. This association will be qualified for vaccinations from March 1st, 2021, Vaccination for COVID-19 is voluntary [20].



Fig 02: covaxin developed by Bharath biotech company . it is the vaccine which has been used in the vaccination of coronavirus approved by DCGI and WHO

Conclusion

Corona virus is the most dangerous virus , we need to take maximum precautions as much as we can,we must aware of this virus, self hygiene maintainance by using sanitisation and maintaining the social distance is only best way to get away from corona virus and every should and must aware of vaccination process ,lot of pharmaceutical companies are trying to produce vaccine ,so we need not bother about vaccine,untill vaccination we must protect ourselves from corona virus .

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