



## A Review on, Omicron Past Present and Future.

*A review on various covid 19 variants in future aspects*

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**Abstract :** On march 11 2020 the spread of the SARS-cov-2 Virus was declared a pandemic by the WHO. Now 33.96 cr peoples are infected from corona virus and more than 55 lakh peoples dead by this infection, now a days new variant of corona well known as omicron is on higher peak in USA and India, the spreading ratio of omicron is comparatively high than other variant of corona. extremely At least eleven known variant have been reported. The main purpose of this stud is to know the difference and effectiveness of that variants. We all are suffering in lockdown phase, and also suffer in lock down. In this pandemic situation of covid 19 is directly affect on our health system as well as financial crisis. Now a days recovery from financial crisis is global problem, facing by developed as well as developing countries. In this critical situation the different variants of covid 19 is surprisingly create the panic situation and directly impact on global market. Which may directly affect the life style of peoples and demoralize the ethical behavior of peoples, in recent studies there are more than 1000 cases of mental health or other health issues created by this pandemic. A spreading ratio of omicron is so high and getting death full result in un vaccinated peoples. Now India, almost 85 % peoples are vaccinated so the mortality rate is low. As a consideration of global spread of omicron which has almost 77 nations, by now which resulted in hypotheses about it origin and degree of infectivity.

**IndexTerms – Omicron, Variants, Pandemic.**

### I. INTRODUCTION

On the 11 March 2020, the diffusion of COVID-19 was declaring the pandemic by the (WHO) World Health Organization. The situation of COVID-19 pandemic has caused globalized turbulence in all factor of life it has overwhelmed healthcare system, economic crisis and also challenge established in leadership models seen from 2008. systems, Shingler-Nace introduced five elements of strong captainship in this pandemic: Communication, Coordination, Collaboration, Calm, and helping nature. We have enlarge on these structure and have more focused on the condition overseeing, financing and operative preparation. As a consideration of this pandemic situation we trying to describe the general as well as critical symptoms and therapies of covid 19. We also describe what kind of care should be taken by public and what kind of moral responsibility of doctors and pharmacists. Since past two years the actual meaning of life has been change. Now a days all developed and developing countries trying to recover the economical depreciation. so this is not only consulting authorities responsibility but also individual people responsibility, to follow the guidelines and decrease the rate of infection. Because this decreased rate indirectly show the positive response on our economy.<sup>[1][2]</sup>

### II. COVID 19 (PAST)

COVID -19 is the contagious disease. The official first case of covid 19 was found in china, in October. In mid November to December the covid 19 cases extremely found in Wuhan, china. The pattern recommend probably timeline of the new Covid-19 case in china November 17 The covid19 condition is infective disorder generated by SARS-COVID-19. At that time whole world is in confusing and fearing state, because therapy and treatment about covid 19 was unknown. This was new disease for us. Symptoms of covid 19 varies patient by patient and it was deathful risk for co-morbid person the symptoms of covid 19 is very common as like common cold or flue. So the RTPCR test is playing important role to find out the covid 19 cases. In some patient didn't show any kind of symptoms so the spreading rate of covid 19 was high due to ignorance of the patient health check up. It is the biggest category for RNA virus. The covid 19 disease is caused by a virus, not by bacteria. Actually covid 19 belongs to the corona virus family, which also include the SARS virus and MERS virus.<sup>[3]</sup>

#### ➤ Symptoms of Covid 19 :-<sup>[4]</sup>

- Fever, cough, runny nose,
- Tiredness, loss of taste or smell,
- Difficulty in breathing
- Shortness of breathing

- Sore throat
- Head ache, chest pain
- Dysentery and diarrhoea
- Nausea and vomiting

➤ **Treatment :-**

In case of Covid 19 the RTPCR test play important role to identify the severity of patient, according to the level of severity the treatment should be guided by WHO to the respective health care system.

- Patient must be in communication with a treating physician and properly reported in case of any worsening
- Continue the medication for other co-morbid illness after consulting the treating physician
- Patient to follow symptomatic management for flue, sneezing and bronchitis as warranted
- Patient may suggest warm water gargles or take steam inhalation twice a day.
- According to WHO's Guidelines the cases should be treated by Remdisiver, Steroids, Favipiravir etc.<sup>[5]</sup>

### III. DELTA / DELTA PLUS VARIANT (PAST)

The World health organization declared that the COVID-19 delta variant firstly seen in India, it is the most communicable of the variants to determine so far and prevent it is now increase in at least 85 countries. The delta variant is very infectious and dangerous variant of COVID-19 series. The health guidance are specifically interested by because it arise to extra communicable than other variants, much resistant to health regulation and avoidance such as segregation, causing must be different and critical features between patients, increase more easily between kid. The Delta variant is also called as B.1.617.2 and was before known as the Indian variant. Anyone with sign of COVID-19 should get a COVID-19 estimation, even if the sign of symptom is minimum. Additional investigation is required to regulate which kind of variant a person has once they have tested +ve to COVID-19. Sign of symptom generally occur five to six days after a person has been affected with COVID-19, however sign of symptom may occur appear 2 to fourteen days after contact.<sup>[6][7]</sup>

➤ **Symptoms of Delta Plus Variant :-**

- Fever, cough, runny nose, headache
- Tiredness, loss of taste or smell
- Abdominal pain
- Difficulty and shortness of breathing
- Heavy coughing leads to Pneumonia
- Rapidly decrease oxygen level
- Damaging of lungs capacity
- Dysentery and diarrhoea
- Nausea and vomiting

➤ **Treatment :-**

In this variant RTPCR and RAT test play important role to identify the seriousness of patient and that time the oxygen level of patient surprisingly decrease in short period of time, this variant so dangerous as cooperatively than other so death rate of this variant is also high, According to WHO's guideline for delta variant should be :-

- There were no cure for delta variant of Covid 19 and goal of treatment is to relive symptoms in mild to moderate cases.
- Patients with mild to moderate illness are usually advised to remain home and self-isolated for up to 14 days to avoid spreading the virus
- According to WHO's Guidelines the cases should be treated by Remdisiver, Tocilizumab, Hydroxyquinine, AstraZeneca, Azithromycin and steroids etc.<sup>[8]</sup>

### IV.OMICRON VARIANT :- (PRESENT)

According to WHO, the omicron variant is form of SARS-Cov-2m, that was 1<sup>st</sup> noted in South Africa on 26<sup>th</sup> Nov 2021. it is the more widely mutated variant to appear so far and carries mutations as equal to modification seen in previous variants. Every day patient in South Africa had been little restricted but then increase in short order from 273 on 16 November to above 1200 by 25 November, above 80% of which were in the north region of Gauteng, where the first patient was seen. According to Hindustan times in India the first case of omicron variant of the corona virus was found in 2<sup>nd</sup> December at Karnataka. The spreading capability of omicron is high as compared with all past series of corona virus. Now a days we fight with omicron by following rules and regulation of government and respective guidelines of WHO's. Death rate of omicron is low as comparatively other series of corona virus. This result of different factors like, proper vaccination of peoples, social distancing, masking, sanitizing etc. Recently completed almost 80 percent vaccination in India.<sup>[9][10]</sup>

➤ **Symptoms of Omicron Variant :-**

- Fever, cough ,headache, body pain, cold
- Loss of taste and smell, tiredness
- Loss of speech or mobility
- Chest pain
- Shortness of breath
- Sever effects seen in those people who are unvaccinated or Co-morbid.
- Dysentery and diarrhoea

- Nausea and vomiting

#### ➤ Treatment :-

According to WHO's recent guidelines on omicron, this variant having extremely spreading capacity known as super spreader, bcz of their spike protein mutation is high comparatively others, but death rate of omicron is very low bcz vaccination in India almost 75 to 80 % done so, risk factor is only for 20 to 25 % people in India, mostly death occurred in omicron is above 60 age or co-morbid cases. According to WHO's guideline omicron is not only dangerous for un-vaccinated peoples but also co-morbid or old age peoples.<sup>[11]</sup>

- Patients have been recovering well with just supplements and occasional paracetamol
- People with mild symptoms are advised rest, light diet, plenty of fluids and only paracetamol to treat fever
- Moderate cases may be prescribed an antiviral pill or a monoclonal antibody treatment
- Complete first as well as second dose in time of period, and also consulting for booster dose for old age persons.<sup>[12]</sup>

#### V. FUTURE :-

After lockdown we looking forward to fresh start of life in bright features expectation, in past and present we fight successfully with all the variant of covid 19, this was crucial time for all world because all developed and developing countries hardly try to invent the vaccine, now we teach from past experience and get ready for the future. Now, we have to learn to live with the corona. In world billions of people still unvaccinated, only 58.8 % of the global population has received at least single dose. In un developed countries only 8.8% of the population has received a vaccine. According to WHO's statement the vaccine is most effective on all variant of corona.<sup>[13]</sup>

Now a days social distancing, Masking, and hand sanitization is become the part of life style.

#### VI. DIFFERENCES BETWEEN COVID 19 VS DELTA PLUS Vs OMICRON VARIANTS :-<sup>[14][15]</sup>

No.	Covid 19	Delta Plus	Omicron
1.	6 to 7 mutation observed in spike protein	More than 20 mutation observed in spike protein	More than 30 mutation observed in spike protein
2.	Spreading level is moderate	Spreading level is high	Spreading level is so high
3.	Mortality Rate is moderate	Mortality rate is so high	Mortality rate is low
4.	Main Symptoms was Shortness of breathings.	Main Symptoms was Decrease oxygen level in short of period	Main symptoms was fever and sore throat.

#### VII. CONCLUSION

In present review we are concluded that the all kind of corona series is highly infective and more dangerous from all viruses, in present day all world stop because of fear of corona. In corona series delta variant is most power full and leads to cause of death. Delta variant directly attacked on respiratory track and rapidly converted into pneumonia and finally death was often that time of period was very critical for India because of lack of oxygen or unavailability of oxygen in market. That lacking of oxygen leads to solid reason for patients death. Vaccination is only one way to get the minimize such serious cases. Now a days nation almost completed the 75 percentage of vaccination in India. For this reason the severity of omicron is indirectly minimize.

In our review we communicate with various kind of doctors who handled the covid cases, it is concluded that the third wave of omicron is not so dangerous as comparatively delta variant. Because of successful vaccination of peoples, now, in case of old age persons there are booster dose are compulsory. Which will minimize the deathful results of such infectious disease. In case of India there are 140 million population, leads to short period for spread of infectious diseases, but Indian government take correct alert steps time to time to avoid the panic moment in India, and they got success in their mission to minimize the count of covid cases. Now a days India face the challenge of omicron wave but the successful vaccination of peoples, various rules against the crowd will minimize the risk of omicron.

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