

The Current Overview of Novel Corona Virus (Covid-19) in India

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ABSTRACT

Novel Corona virus or COVID-19 declared as a "Global Pandemic" by WHO (World Health organization). It affects throughout the world as well as India. It spread almost every parts of the country, crossed more than 33 thousands positive cases, more than 1000 patients were deceased and 8373+ patients are recovered till 30th April 2020. SARS-CoV-2 (SARS-Severe Acute Respiratory Syndrome) virus mainly responsible for these COVID-19 or Novel corona virus disease. It will affect the Respiratory system and makes severe life threat. Ministry of Health and Family Welfare, Government of India and ICMR (Indian Council of Medical Research) and all the States government provides proper guidelines to the citizens how to fight against the Corona virus like maintain social distancing, Proper lockdown, Proper awareness like do's and don'ts for people.

INTRODUCTION

In the month of December, some cases with pneumonia with different etiology reported at Wuhan city in China and after doing proper study of this virus genetics with Next Generation Sequencing (NGS); they confirmed that it is a novel corona virus. After that, it outbreaks all over the world. On 30 January, WHO declared the outbreak a Public Health Emergency of International Concern (PHEIC), On 11 March, WHO Director General characterized COVID-19 as a pandemic. The actual source of this life threatening virus is unknown but some reports trace that the earliest cases might be from a seafood and animal market in Wuhan City. In 2003 and 2012 such type of coronavirus outbreak occurred known as Severe acute respiratory syndrome (SARS) and Middle East Respiratory Syndrome (MERS) but these SARS-CoV2 likely comes from animal origin and not previously associated with any disease in human. The current reports suggest that the sources of SARS-CoV-2 are bats and the Pangolin but it is spreading through person to person. Fever, dry cough, difficulties in breathing are the primary and main symptoms, there are some other symptoms like Tiredness, Aches, Sore Throat, Headache, Chills, Diarrhea, Loss of taste in COVID-19 virus disease. The symptoms may come into view 2-14days after exposure. The incubation period of COVID-19 ranges from 1 to 12.5 days (with median estimates of 5 to 6 days), but can be as long as 14 days as per current

reports. Overall, 82 percent of those are mild, 15 percent of those are severe and 3 percent of those are classified as critical in the world. Due to these infection, patients are suffering from pneumonia, acute respiratory distress syndrome, sepsis. Countries like United States, Spain, Italy, France, and United Kingdom are mostly affected by COVID-19 ^[1].

The current studies says that Novel corona virus can easily spread into the community through. It will easily transmitted through Respiratory droplets during sneezing, cough, or during speak from the Corona infected patients. If any person touches the infected patient's body and then touches his or her nose or mouth then there will be a chance of transmission.

Current situation in India

In India, novel Corona virus has spread to almost all the parts of the country day by day. The most concerned things in India are the high population and density. First positive confirmed case was reported in Kerala, where a student studying in Wuhan University, China, has been tested positive with the deadly virus. States like Maharashtra, Tamilnadu, Gujarat, Madhya Pradesh, Rajasthan, Telangana and Union territories like Delhi are badly affected and States like Chhattisgarh, Manipur, Meghalaya, these states are comparatively less affected by the COVID-19. Goa became corona free state. According to Ministry of Health and family welfare 33610 positive cases, 8373 cured and 1075 deaths are reported till 30th April 2020. Also union health minister addressed that only 0.33% of COVID-19 patients are in ventilation. Covid hotspots in India down to 129 district from 170 district in a fortnight. Front line health workers like Doctors, Nurses, Pharmacist, Paramedical staff, hospital staffs as well as police and others are fighting against these life threatening virus ^[2].

Current testing protocol in India

- Those have any travel history internationally or domestic they have to stay at home quarantine for 14 days, if during this time any symptoms are observe then the test will be done. If the results will be positive then the patients should be isolated and treatment has to be start immediately.
- In case of community spreading, if any symptoms are observed then the test will be done and if the result come positive then the treatment will start in isolation area.

In India, ICMR has provided proper testing procedure. There are mainly two types of tests present till now: (a) RT-PCR (Reverse transcription polymerase chain reaction) test, (b) Rapid antibody test ^[3].

In RT-PCR test Nasopharyngeal or Oropharyngeal swabs are taken as a sample. To find evidence of the virus, PCR used to copy and amplify any segments of viral genetic code in the sample, reagents and enzymes are added and after thermal cycling , Software determines the copies of the target sequence exceeds a threshold, indicating if the novel corona virus is present or not.

In Rapid antibody test for the COVID-19 can be used to detect people immune system has COVID-19 or has recovered from it ^[4]. The test can detect evidence of past or present exposure to the corona virus in less than 30 minutes prevention measures:

- If anyone has any travel history they should stay at home quarantine for 14days.
- Washing the hand with soap for minimum 20 second or use Alcohol based sanitizer after a while.
- Use mask and hand gloves as much as possible.
- During coughing and sneezing must cover nose and mouth with elbow or use tissue paper and throw it in closed wastes box.
- Don't spit anywhere in public place.
- Clean out phones with disinfectant solution.
- Avoid direct contact with anyone suffering from cough, sneezing or fever and maintain 2 meter distance.
- Avoid mass gathering in any place.

Steps taken by government: Ministry of health and Family welfare of Government of India, ICMR (Indian council of Medical Research), All the State Governments and WHO working together in this current situation. They provide proper guidelines for the citizens ^[5].

- Government of India introduced "Janta Curfew" On 22th March 2020, for 14-hours as the beginning of a long battle against Corona virus outbreak and the countrymen have proved that together they can defeat any challenge.
- From 25th March 2020, Government of India announced 21days full lockdown and further it extends till May 3, 2020.
- Proper advices, reports are given by news media, print media and social media.
- Government of India provide all the facilities for Corona testing and treatment by supplying test kits, PPEs for front line medical staff and arranging Beds, Ventilation units for COVID patients.

CONCLUSION

This life threatening virus causes pandemic in the whole world. Like the other countries in the world, INDIA is also affected with the virus. The condition is devastated as well. The frontline workers like Doctors , Nurses , Pharmacists , different medical staffs , Central & State Government , Police and all the daily staffs who are giving there unconditional labor to fight with corona virus. All of us should fight together in this situation. All people should follow proper guideline given by the medical bodies. If we all fight together then only we can win over this and save the mankind.

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