

Strategies against Corona Virus in India

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Abstract: Pandemic deceases like nCovid-19 hit the human once in a century. Having no experience and no guidance available, one depends on self-analysis and self-tested theories. It's very difficult to handle such situation as at one side death casualties are increasing, you have concentrate on medical solution , Economic impact and so many other impacts like Labors going back homes, Personal Security kits supply, Swab tests, Vaccine research, Foreign Countries relationship etc. Prime Minister of India implemented so many strategies one after another to fight against Corona. The time will tell whether his strategies were successful or not. But today his aim is to get rid of this Corona virus and get India back on track.

Keywords: Pandemic, nCovid-19, Corona virus.

Introduction: Corona Virus is a virus spread from Wuhan Laboratory in Wuhan city of China. Its the cause for decease nCovid-19 which is declared as Pandemic decease by WHO (World Health Organization). Corona has badly hit major countries worldwide like USA, UK, Italy, Spain, France, Germany and Israel. It has impacted on Gulf and African countries too. We, India also hit by this Virus.

Its major symptoms are Dry Cough, Fever, Throat infection and Respiratory difficulty. Many Corona positive patients do not show any symptoms above but still they can spread this virus. Without tests we cannot identify patient as Corona Positive. These Tests are of two types one Thermal Scanning and Second Swab Testing. Tests are important as it breaks the chain of Covid 19 through identifying the probable carrier of Corona Virus. WHO publishes its guidelines for

this decease time to time and set some guidelines to fight against this virus. India also has set guidelines to fight with the help of ICMR (Indian Council for Medical Research.). India started its research to find test kits and Vaccine against this virus at its Virology Institute for Viral deceases.

Method:

Method suggested by WHO: WHO suggests Mask usage in public places, Social distancing of 1 meter or 3 feet, Self-Isolation for initial symptoms like cough, mild fever, headache etc. It also suggests how to prevent spread of virus by Hand wash, Alcohol Sanitizers, avoiding touching mouth, nose and eyes etc., avoiding attending public gatherings, meetings, rituals, group

praying etc. WHO suggest Test – Quarantine – Isolate model

Methods Tested by Government of India: Being higher population density and limited medical facilities, government of India has to adopt different approach to prevent spread of Corona virus. We have identified stages of Corona virus based on the situations worldwide spread.

Phase1 - Induction or Travel history, Phase2 - Contact Spread through friends and relatives,

Phase3 - Communal spread (not traceable)

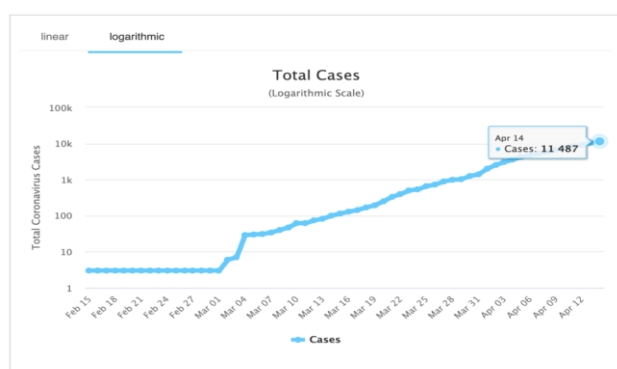
Phase4 - Pandemic or uncontrolled spread.

Lockdown from initial stage of n-Covid 19:

Though WHO has not suggested Lockdown, Government of India adopted strategy to prevent spread by means of Lockdown. It's a bold step which can impact economy of the country but looking at the importance of lives PM of India preferred this step. Its impact on Corona virus is that the spread has been minimized, doubling rate of Corona patients has been stretched to up to 12 days at one time.

Lockdown is now at the end of its 3rd stage and we have crossed 70000 positive patients. If we were not applied lockdown, this number might have crossed 7 lac.

Total Coronavirus Cases in India



Tests and Tests Lab facility: Indian Government adopted tests like thermal scanning at the public places like Airports, Hospitals and on Roads. Lot

of travelers from the infected countries thermally scanned and asked to remain quarantine at their home for 14 days. This strategy is proved to be unproductive as many foreign travelers consumed pills for fever and fooled the thermal test.

Indian Government then banned flights from the infected countries but this strategy also did not work as many travelers changed their route of travel from infected countries to non-infected countries so that they can enter into India. Also 14 days quarantine was not followed by them strictly and many of their near and dear one got infected and India entered into Second stage.

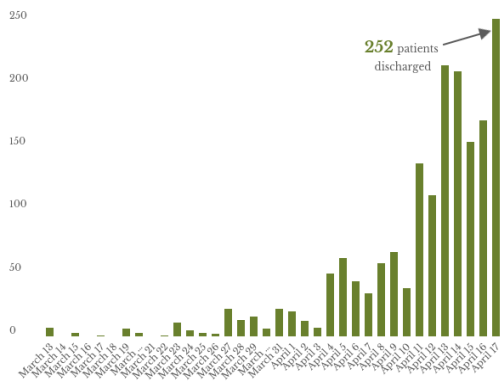
By this time Indian government worked on increasing its Covid 19 Hospital infrastructure and Test Laboratory at district level and allocated District Collectors and Commissioners to take control and reduce the spread as well as casualties. Swab test and Oximeter tests are now possible at district level.

Boundaries of districts are sealed and transfer of Human, Goods and Vehicles are restricted and allowed only for essential goods and Service and human resource needed for them.

At this point Arogya Setu App developed by Electronics and Information Technology Department of India was announced by Indian Government. This app is proving to be very useful in preventing spread of Virus. It shows nearby Corona Positive patient count within 1km, 2km, 5km distance from users position. This strategy seems to be working positive and giving its fruit but then Tablighi jamaat and their markaz gathering had spark the Corona Virus spread. Around 3500 Tablighi from different part of the world gathered in Delhi, many of them infected with Corona Virus, were allowed to gather in Delhi with no Social distance norms followed thus spreading the virus and reaching it to the villages and cities and remote areas like

Andaman, Laddakh and Manipur states of the country. Thus strategy of Lockdown questioned for the first time. But then strict search operation carried and most of all Tablighi identified and quarantined.

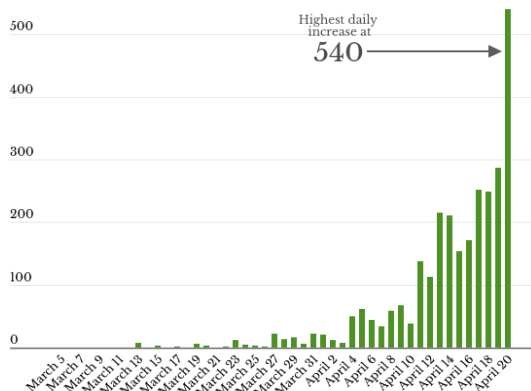
Highest Number of COVID-19 Recoveries



Source: Ministry of Health and Family Welfare, India
 Note: Data as of 5 p.m. on April 17



Highest Single-Day Increase In Recoveries



Source: Ministry of Health and Family Welfare, India
 *Data as of 5 p.m. on April 20



Indian Government then studied different models by different collectors and Commissioners. One successful strategy studied was Bhilwara Model. Bhilwara Collector applied aggressive implementation of lockdown and identified hotspots of Corona virus. Strict rules, Quarantine and Isolation in Hotel rooms sealed for Corona positive patients. This strategy then applied nationwide and Hotspots in most

affected 62 Districts were identified and sealed for strict implementation of lockdown rules. On the basis of spread of Corona virus, Zones were created and named as Red, Orange and Green. 1km area of Corona positive patient's residence were declared as Contamination zone. Most affected states like Maharashtra, Delhi, Gujarat where Slum and Population density are high, given permissions for treatments and clinical tests like Plasma Therapy. States like Kerala has successful in fighting Corona. Bhilwara and Kerala, both have significantly highlighted the collective efforts of their whole team and corona frontiers.

Kerala Chief Minister admitted his success is linked with the previous fight they had while EBOLA Pandemic. So we have two examples where collective efforts from all departments of the area and Communication within them proved to be fuel in their success. So Indian government started for the strategies implemented by these states.

In the third Lockdown period the lockdown impact on Economy started impacting. Labors from different states were started mobilizing to their origin states. Social distancing, Mask wearing rules were ditched. These Labors were not allowed to enter into their states, villages in spite of strict orders from Central Government. Many had selected the option of walking 500-1000 kms to reach their native. Many have lost their lives and many have face lot of pain while walking on the roads.

Indian Government then started running Shramik Trains to mobilize labors. State government like UP, Maharashtra provided Buses to mobilize labors up to and from the boundaries of their State. Meanwhile Vande Bharat mission by Indian government to bring back Non Resident Indian from different parts of the world. Government send Flights and ships to

bring them back to India. These NRIs were locked in foreign countries because of lockdown worldwide. It's a bold and challenging decision which will have large impact on Corona Virus Spread. Indian Government now decided to start Train Services to different parts of the country which will allow passengers to travel maintaining social distancing. So we can see that slowly Indians are back into their normalcy.

Meanwhile one strategy that Prime Minister of India tried and successfully implemented is public awareness and Thanksgiving to our God on Earth i.e. front warriors like Doctors, Nurses, Ward Staff, Police, Drivers of Buses, Ambulances, Electricity, Water Supply Department employees, Posts, Ports employees. It helps boost morale of Corona Fighters. Last but not least, Farmers of this country supplied daily needs at doorstep of the needy Indians. This strategy though followed from Italy, helped people locked in their home, feel that they are in a community and someone is near them when they will be in need. The next step of this strategy is lighting the candle or Lamp, Torch, Mobile Phone light, Fire Crackers etc. which has created the same confidence of being in community as in sound strategy.

The next level was dropping flowers from Helicopters on Covid 19 Fighters or respecting them from Indian Defense departments. It feels like they are not less than Defense fighters and it boosts their morale in fighting Corona.

Another strategy Prime Minister of India implemented was Connecting Indians through "Mann ki Baat". He frequently communicated his plans and steps taken for different situations while facing Corona. Also he frequently attended Video Conference meeting with all Chief Ministers of all states to take feedback and suggestions from them. He listened problems faced by them and tried to solve them. He also

tried to support states financially and medically by raising funds like PM Cares. Now he has declared 20 Lakh Crore package for Small Scale Laborers, Farmers and Make in India promotion.

Discussion:

So overall sequence of steps taken by Indian government shows that they have tried to fight at different fronts with this virus. Pandemic deceases like nCovid-19 hit the human once in a century. Having no experience and no guidance available, one depends on self-analysis and self-tested theories. It's very difficult to handle such situation as at one side death casualties are increasing, you have concentrate on medical solution , Economic impact and so many other impacts like Labors going back homes, Personal Security kits supply, Swab tests, Vaccine research, Foreign Countries relationship etc.

Prime Minister of India implemented so many strategies one after another to fight against Corona. The time will tell whether his strategies were successful or not. But today his aim is to get rid of this Corona virus and get India back on track.

Conclusion:

Looking at the strategies applied by the government of India, Adaptive strategy initially worked but failed in second stage. We have to adopt lockdown as a prevention strategy to break chain of Corona Virus and aggressively implement lockdown at all zones and hotspots. Government of India is doing very good job and are successful in Corona fight. They are having control on spread of Virus.

Future Strategy:

Future strategy should be increasing Covid19 tests so that virus carriers will be identified and spread is prevented. Also strategy for increasing recovery of patients should be implemented. This may include vaccine research, Ayurvedic medicine usage or Herbal treatment Etc.

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Note: All Published papers are referred, having undergone a peer-review process.