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Post Corona World – "Heroes and Higher Education Fighting the Battle COVID – 19"

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ABSTRACT

Viruses as we all know are the connecting link of living & non-living & also there mutation rate is very high and the specific treaterments are very rare and one such newly discover virus is COVID-19 by which we all are fighting. It was first recognized by WHO on 4th January 2020 in Wuhan, Hubei province and on 5 January 2020, WHO published our first Disease Outbreak News on the new virus. In INDIA COVID-19 was first reported on 30th January 2020. This covid-19 spreads via air or fomite borne. To be safe and avoid spreading of infection government took the step of lockdown and request country to cooperate by wearing masks and qurantime themselves for their safety. Covid-19 where took education on online platform on the other hand it come up with the real heroes of the nation.

Keywords: *Novel Corona Virus 2019, Spread, Pandemic, Lockdown, Education industry, Real heroes, Cloud computing, Online grocery, Video conferencing.*

INTRODUCTION

Corona viruses are retrovirus which is very lethal and mutation rate is founded very high in it. This disease (COVID-19) is an infectious disease and is an air-borne, fomite-borne disease. Most of the people of the world are infected with corona are experiencing corona symptoms mild to moderate one's. Older people & children are at the high risk of having corona due to low immunity. People with age group between 20-40 are at low risk of corona but they should be healthy immune system. As people, if boost up their immunity by performing physical exercises, yoga & healthy foods will help themselves to not be a victim of corona. On the basis of previous experiences and studies on viruses like SARS & MERS, WHO guided the world with the symptoms, precautions & identification of corona patients. WHO also guided how to take care of these patients & also help government by providing guidelines to follow in their country in order to prevent the spread of corona. Government ordered public to wear masks, frequent hand wash or sanitize, avoid hand shakeing to avoid air borne aerosol spread of corona, also avoid touching fomites as it is a fomite borne disease also.

COVID-19 pandemic in India : The first case of COVID-19 in India was reported on 30 January 2020. On the basis of provisions of the Epidemic Disease Act, 1897, govt. shuts down all commercial companies & other educational institutions & at the same time ordered to maintain social distancing and stay at their homes. In INDIA, prime minister Narendra Modi, came forward with quick steps for their country to prevent the spread of corona and for that the first step he took to suspend all tourist visas and ordered 14 hour voluntary public curfew on 22nd January 2020 and after that on 24th March 2020, he ordered nationwide lockdown of 21 days and when he found that spread is not under control than he extended the lockdown again on 14th April 20202 till 3rd May 2020 and so on till 31st May 2020. He divided the lockdown into 5 phases and these are :

- **Phase 1 –** is of 21 days that is from 25th March to 14th April 2020.
- **Phase 2 –** is of 19 days that is from 15th April to 3rd May 2020.
- **Phase 3 –** is of 14 days that is from 4th May to 17th May 2020.
- **Phase 4 –** is of 14 days that is from 18th May to 31st May 2020.
- **Phase 5 –** is only for containment zones that is from 1st June 2020 till ongoing.

Also Indian Govt. divided the entire nation into 3 different zones and these are :

- **Red zone (Hotspots) –** is the zone/area declared as hotspots & where active cases and doubling rate is very high.
- **Orange zone (Non-hotspots) –** is the zone/area declared as non-hotspots, where few cases are recorded.
- **Green zone –** is the zone/area where no new case or confirmed cases are found in those 21 days of lockdown.

Major events of COVID19 pandemic in India till April	
30 January	First confirmed case
6 March	International passenger screenings at airports
12 March	First confirmed death
13 March	Suspension of non-essential traveller visas
15 March	100 confirmed cases
16 March	Passenger land border crossing suspended
22 March	One day Janata Curfew Passenger air travel suspended till further notice
25 March	Nationwide lock-down imposed till 14 April
28 March	1,000 confirmed cases
30 March	100 confirmed recoveries
5 April	100 confirmed deaths
14 April	10,000 confirmed cases Nationwide lock-down extended till 3 May
13 April	1,000 confirmed recoveries
19 April	500 confirmed deaths
25 April	5,000 confirmed recoveries

30 January

Symptoms : symptom is a change identified in body by a person which is a sign of illness and play a key role in identifying the type of diasease a person is suffering from. COVID-19 symptoms are divided into three categories, which are as follows:

Most common symptoms:
- fever.
- dry cough.
- tiredness.

Less common symptoms:
- aches and pains.
- sore throat.
- diarrhoea.
- conjunctivitis.
- headache.
- loss of taste or smell.

Serious symptoms:
- difficulty breathing or shortness of breath.
- chest pain or pressure.
- loss of speech or movement.

Seek immediate medical attention is required if a person have serious symptoms while, people with mild symptoms who are otherwise healthy should manage their symptoms at home. On an average it takes 5–6 days from when someone is infected with the virus for symptoms to show, however it can take up to 14 days.

Spread :
Not only COVID-19, rather all other viruses spread by different modes :

Air –borne : This disease can spread via air through droplet infection method. Droplet infection means the virus is enclosed in a droplet nuclei which is generally considered a particle of less than 5 micrometer in diameter and it remains in the air for a long periods of time and transmitted to other distances over more than 1 meter. These droplets comes in air when an affected person sneezes without hiding its nose and these droplet spreads in air and enter as soon as the other person comes in contact of air and inhale the minute droplets during inhalation.

Treatement :

No specific treatement against viruses are found yet in studies also & no any specific cure is there. Vaccines are the only prevention of these viruses and corona but as know vaccine for corona is yet under study. Antibiotics works on the principle of degrading cell wall so it is best medicine against all those microorganisms having cell wall but it is not active for viruses as they don't have cell wall and also they use our body cells as their machineries. Rather doctors are helping patients by controlling their symptoms & boosting their immunity.

Therapies used widely are :

- antiviral or retroviral medications
- breathing support, such as mechanical ventilation
- steroids to reduce lung swelling
- blood plasma transfusions

Prevention :

- Wash your hands frequently for at least 20 seconds at a time with warm water and soap.
- Don't touch your face, eyes, nose, or mouth when your hands are dirty.
- Don't go out if you're feeling sick or have any cold or flu symptoms.
- Stay at least 6 feet trusted Source.
- Quarantine yourself to be safe.

Effect of covid-19

Education industry : Education is the process of facilitating learning, or the acquisition of knowledge, skills, values, beliefs, and habits.

During covid-19 outbreak government took a step of lockdown in all over the country which leads to closing of institutes, schools, colleges and universities which further leads to some advantages and disadvantages which are as follows:

- Board exams of classes 10th & 12th are discontinued in between.
- Exams of classes 1 to 9th & 11th are not conducted due to this lockdown and government is deciding to promote the students to next classes without exams.
- Aspirants of NEET/IIT are sitting helpless during their struggling time for their targets.
- Deduction in the salary of the faculties and other employees of educational fields.
- Low admission rates in IIT & medical institutes of Kota.

A part of this, institutes found out a solution of online teaching which came like a hope for the students and teacher during this struggling time. Online platform provides the teaching from home to home of students. Kota which is known for its excellent education also came on online platform which helps the students a lot as this avoid the discontinuity in their studies. Even it help those students also to learn from home who are not financially good enough to spend money to go to Kota to do their IIT/NEET preparation. Many institutes launches their own application for online studies and others are working on zoom application but in between there is a news of data leakage on zoom app so it again create a barrier in front of teachers but anyhow they managed to continue their teachings. This online teaching avoid the time of travelling and helps students that they can study anywhere and anytime by activating the link they are getting from their institutes.

Online platform where came as a hope for teachers and students, on the other hand it also brings a lot of burden for them as it demands more activeness and alertness of teachers and students. Systematic studies hampered on online teaching as its not possible to clear all the doubts of the students during that class and even teacher didn't knew what the students are doing on the other hand. Also using phone continuously for a longer

period of time and daily creates eye problems as well. Teachers cant able to knew that which student is understanding and which is not also the topic which is completed in 3 lectures in offline classes took more than 5 to 6 lectures to complete in online classes. Struggling with these difficulties is not a big problem but the problem is to take exams which is conducted to test the potential of students.

Meanwhile the parents who either lost their jobs or getting deducted salary cant able to deposit fees to schools & coachings, which further creates a hurdle for the faculties who are working continuously on online platform for betterment of tomorrow of students still getting 20 percent salary. Students coming from outside Kota will come back to Kota or not is also a dilemma which creates insecurity in the minds of coaching industry, hostels and mess which are running because of the education of students coming every year in Kota, but this time it is very difficult to say anything that parents will take risk to send their children to Kota during this corona phase or not.

After lockdown many students which get stuck in Kota are begging to government to get them back to their native places and they suffered a lot as they are not getting foods due to closing of mess and many more problems but later on state governments took the responsibilities and arrange facilities to take back their children by following all the safety guidelines of corona.

Now Kota is waiting or hoping for students to come back and again struggle to complete their dreams which they carry in their eyes and come Kota.

Prepapration in unlock phase : Schools , caochings and other educational fields are now getting ready to get up again and restart with full passion and enthusiasm after lockdown . During unlock phase educational fields are sterilizing the buildings with hypochloride solutions, arranging sanitizers for students, teachers are preapared to take classes after wearing face shields to avoid spread of the disease , this is how the education industry is working continuously for the students and for bright future of them.

Real heroes : During this critical situation police, doctors, celebrities and even the common people came forward as a real heroes or helping hands of the country.

1. **Police :** Thanks to police who are continuously working for the safety of the nation by putting their lives on risk . They are not getting time to eat food but still distributing food to poors. They are not strict to anyone but they are threatened by people who didn't understand the meaning of quarantine and safety.

2. **Doctors :** They are the worriers who are not less than god, who are continuously treating covid-19 patients by sacrificing their own lives. They are working day and

night after wearing masks, gloves without taking rest and food and still some of the doctors lost their lives during treating the patients. After playing a role of god during the corona phase they even discriminated by their society peoples or by land lord because of the fear of having corona to them. Nation is having such real heroes while also having shameless creatures who are ruining humanity instead of being a helping hand during this critical period of time.

3. **Celeberities/ Industrialists :** Many celebrities and industrialists came up with money donation to PM care funds and some came up with providing foods to poors and arranging buses to the migrants.
4. **Common people :** Many true citizens came forward and worked as a team in distributing food packets and dry rations to the poor people of their local area .

This all shows how we all are struggling and fighting continously with covid-19 and unite to throw it back from the earth and come out from this difficult time.

A part of education and real heroes in this corona pahse, economy is the another one around the world which is being hitting disastrously. Where lockdown leads to fall on all commercial sectors while on the other hand there is a sudden rise in online segments and peoples are now switching on to online platforms and restricting themselves at homes and working.

Cloud computing segment came up as catalyst for business & other organizations.

Video conferencing : In this corona phase there is no any alternative to meet face to face

to discuss about the future plans of the company . In that video conferencing is the only hope to fulfill the needs. There are so many applications but they are restricted to few peoples & is not possible to perform meeting of more than 50 people . Zoom cloud meeting is the app which is currently used highly by the companies, schools & other organizations to continue their tasks.

Electronic payments : As COVID-19 is a fomite borne disease also so, there is a risk of spread while exchanging money and avoid this everyone moved to electronic payments like Phonepay, Paytm, Google pay, Bhim upi & etc which also avoid the risk of theft & also it maintains a record of transactions on phones.

Streaming, gaming and video content platforms : Video streaming, gaming are the only entertainment to spend time at homes during lockdown where parents don't want their children to busy in it but for adults there are so many popular launchings like Disney + , NETFLIX, Hotstar VIP, Zee Action 5 which are highly entertaining peoples in this pandemic phase.

Online grocery delivery : Due to lockdown everyone is quarantined at their homes & can't go outside to buy or sell. But to serve our basic needs, everyone rushes on supermarkets. Online orders & deliveries are going on but when the demand of customers exceeds the supermarkets had to stop taking further orders

REFERENCES

https://www.who.int/docs/default-source/coronaviruse/who-china-joint-mission-on-covid-19-final-report.pdf
https://www.sakaltimes.com/art-culture/salute-our-heroes-3851
https://economictimes.indiatimes.com/industry/services/retail/online-demand-for-non-essential-items-low/articleshow/75665531.cms?from=mdr
https://www.theguardian.com/world/2020/jun/08/india-eases-coronavirus-lockdown-experts-warn-rising-infections
https://www.who.int/health-topics/coronavirus#tab=tab_1