

COVID-19— A Study

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Abstract:- Corona viruses are a big family of different viruses. Some of them cause the common cold in people and other infect from animals, like bats, camels and cattle, Corona virus enters in human cells through membrane ACE-2 receptor. WHO and ECDC advised – Avoid public place, follow social distancing and close contact to infected persons and animals. COVID- 19 is a corona series of viruses but it has changed all human life.

Keywords:- Corona viruses, Covid-19, lockdown, Novel Corona Virus, Isolation, Quarantine, SARS—COV, Social distancing.

I. INTRODUCTION

Corona viruses were first discovered in the 1930's when an acute respiratory infection of domesticated chickens was shown to be caused by infection bronchitis virus IBV. According Canadian study 2001 –first case of human Corona virus were identified flu like system .17- 18 cases of them were confirmed as infected with Corona virus strain by polymerase chain reaction. Researchers found a group of similar human and animal viruses and named them, after their Corona like appearance. Seven Corona viruses can infect Humans.

During 2002 and 2003-This time Corona was treated as simple not fatal virus various reports published with proofs of spreading the corona to many countries. United States America ,Hong Kong, Singapore, Vietnam, Thailand ,Taiwan etc. several case of serve acute respiratory syndrome caused by corona and their mortality more than 1000 patient was reported in 2003,name is SARS—COV.

During 2004, 2005, 2012, and 2014-This was the black year for microbiologists. After these microbiologists started thinking on this problem. After deep researches they conclude and understand the pathogenesis of disease and discovered as Corona virus. But till total 8096 patient was confirmed as infected with HCOV HNL63 virus so in 2004, HCOV HKUI in 2005. World Health Organization and centers for disease control and prevention declared as —State Emergency. Another study report of Hong Kong was confirmed 50 patient of serve acute respiratory syndrome while 30 of them were confirmed as Corona Virus infected in 2012. MERS COV started in Saudi Arabia in 2012. Almost all at the nearly 2,500 cases have been in people who live in or travel to the Middle East.

This Corona Virus is less contagious than its SARS cousin but more deadly killing 858 also causes kidney failure, May of 2014 patients had recently travelled to Saudi Arabia suffered to Corona Virus, most cases have occurred in the Arabian Peninsula it is still unclear how the virus is transmitted from camels to humans. Its spread is uncommon outside of hospitals. Thus, its rise to the global population is currently deemed to be fairly low.

Corona virus disease COVID-19 is an infection disease caused by a newly discovered Corona Virus people can get the infection through close contact with a person who has symp- toms from the virus was spread via airborne Zoonotic droplets virus was replicated in ciliated Epithelium that caused cellular damage and infection site.

Many people with Covid-19 Experience only mild symp-toms. This is particularly true in the early stages of the disease it is possible to catch Covid-19 from some reports have indicated that people with no symptoms can transmit the virus it is not yet known how often it happens.

A Novel Corona virus outbreak was first documented in Wuhan. Hubei province, China in December 2019, it has now been confirmed on six continents and in more than 1000 countries.

II. ANTHROPOGENIC FACTORS SPREADING COVID-19

There are many anthropogenic factors cause viral manifestation as we have seen in case of Novel Corona Virus [COVID-19] probably some are below :-

A. Wet market in China

In the era of 1980 when China was facing food crises .China allowed wild animals to be slaughter and used as food. In wild animal i.e. Bat is major source of Corona Virus. such markets can be ideal environments for zoonotic spread as the unusual mixing of animals which is not common in the wild can provide opportunities for viruses to jump between species and potentially then to people.

B. Lack of protective gear in lab

As we have known China's Wuhan mistake of virology is researching on but from last many year and last year by American agency. It is reported that they do not have enough protective gears and safety equipment which may cause spread of viruses from lab.

III. COVID-19 CONFIRMED CASES REPORT COUNTRY WISE

According to world Health organization-

On 31 December 2019 China, East Asia was most populated Country in world. Till 3 January 2020 a total 44 covid cases were detected. Chinese research authorities were announced that they were isolated new virus from sea food market in Wuhan city named as: - Covid-n COV on 7th January 2020.

Ministry of public health Thailand was reported on 13 January, 2020, 01 patient imported from Wuhan, China. On 20 Jan 2020 the ministry of health welfare Japan was reported first case imported from Wuhan China. National IHR focal point from the Korea was reported first case 2019-n COV in Korea, on 23 January 2020.

On 23 January 2020 United states of America were confirmed first case of 2019-n COV. Vietnam has reported first case of COVID-19 with not travel history from China, while his family member was the China traveler. So it's the first incidence of human to human transmission of Corona Virus on 24th January 2020. the government of Singapore

was confirm first case Covid-19 25th January 2020. Australia government Nepal and France were confirmed first case of Covid-19 and other countries also were detected and reported the cases of COVID-19 this is-

- Malaysia- on 26th January 2020.
- Canada on 27th January 2020.
- Cambodia, Germany, Sri Lanka on 28th January 2020.
- United Arab Emirates on 29th January 2020.
- India, Finland, Philippines on 30th January 2020.
- Italy on 31st January 2020.
- Russia, Spain, Sweden, United Kingdom on 1st February 2020.
- Belgium on 5 February 2020.
- Japan on 6 February 2020.
- Egypt on 15 February 2020.

So we see as the outbreak of Corona Virus disease Covid-19 in China Hubei province continues and new cases of the disease increase globally and different date and month. Pre-sent situation is covid pandemic very horrible.

A. Countries

Reported Confirm Covid-19 Cases and Deaths Date as of-8th may 2020.

Serial	Country	Total Cases	Deaths
1	U.S.A.	1292996	76948
2	Spain	260117	26299
3	Italy	215858	29958
4	U.K.	206715	39615
5	Russia	187859	1723
6	Germany	169430	7392
7	France	174791	25987
8	Brazil	136519	9265
9	Turkey	133721	3641
10	Iran	104691	6541
11	India	56516	1895
12	China	82886	4633
13	Canada	64922	4408
14	Belgium	52011	8521
15	Netherland	42093	5359
16	Saudi Arabia	35432	229
17	Ecuador	30298	1654
18	Switzerland	30207	1810
19	Mexico	29616	2961
20	Portugal	27268	1114

Table 1

So in this way Total Cases 3946023 and Total Deaths 271663 are in the World.

IV. PREVENTION, PROTECTION AND VACCINATION OF COVID-19

Awareness is the only protection from Covid-19. Protect yourself and others around you by knowing the facts and taking appropriate precautions. So full advice provided by your local public health agency. Indian Government describes the prevention and protection instruction for people.

- Stay home
- Stay lives is a campaign
- Keep safe distance
- Wash hands every twenty minutes
- Cover your cough
- Sick? Call the help line
- Advice on the use of masks
- Awareness of the use of personal protective equipment [PPE] for suspected
- /confirmed covid-19 cases.
- Proper disposal of the used mask.
- Clean your hands often, use soap and water or an alcohol based hand rub
- Maintain a social distance from everyone who is coughing or sneezing.
- Don't touch your eyes, nose or mouth.
- Water, Sanitation, Hygiene and Waste management for covid-19.
- Quick decision has been taken by the government for the protection of human life. Government adopted these strategies-
- Closing borders (air, sea and land) using war time rhetoric to rally their populations.
- International Cooperation is vital to enabling mass testing and treatment.
- Covid-19 exit strategy would be safest with an effective vaccine.
- There's only one option for a global corona virus exit strategy- is lockdown.

V. WHAT IS LOCKDOWN?

A lockdown is a prison protocol that usually prevents people or information from leaving an area. A full lockdown usually means that people must stay where they are and may not enter or exit a building or rooms within said building. If people are in a hallway. They should go to the nearest safe enclosed room.

During the 2019-2020 covid 19 pandemic the term lock down was used for actions a related to mass quarantines. By early April 2020, 3.9 billion people worldwide were under some form of lock down; more than half the world's population.

Lock down is the part of solution and we urge you to comply with orders;-

For your own good and for the health of your family and community

- 1st Phase lock down- during 24 March to 14 April 2020 complete lock down in India.
- 2nd Phase lock down- during 15 April to 3 May 2020 government decided three zone all across the country in India. Red zone, Orange zone, green zone.
- 3rd Phase lockdown- starts from 4 May to 17 May. Till May 3 had identified 170 hotspot districts, 207 non hotspots districts reporting cases and 359 green zone district not reporting only cases across the country as of Wednesday green zone .

The new guide lines would help the control and State government in allowing some economic activities in selected areas.

Some another practices, prevention and protection: - COVID-19 are;

- **Isolation:** If you have minor symptoms, such as a slight cough or a mild fever. There is generally no need to seek medical care, stay home, self isolate and monitor your symptoms. Follow national guidance on self isolation.
- **Quarantine:** Quarantine means restricting activities or separating people who are not ill themselves but may have been exposed to COVID-19. the goal is to prevent spread of the disease at the time when people just develop symptoms.
- **Social distancing:** Indian government policies avoid gatherings such as melas, fairs, gathering in religious places, social function etc. maintain a safe distance of at least one metre between you and others people when in public places.
- **Search vaccination:** The vaccine task force VTF set up by Prime Ministers office for focused research on coronavirus has allowed research institution and laboratories to use patient samples research and development.

There are many CSIR and DBT institution research laboratories all over the country helping in the health sector by extensive RTPC tests. New startup companies are preparing in expensive and excellent medical equipment's to protect from COVID-19.

In order to produce large quantities of suits used to protect against corona virus, an alternative to the unavailability of sceme sealing tape was the use of cylinder glue used for sub-marine equipments to ensure the safety of frontline health workers can be done.

The indigenous oxygen concentrator machine is being developed in collaboration with CSIR which can save the life of patients. Lifesaving medicines required for treatment of COVID-19 are being prepared in with collaboration with CSIR.

VI. CONCLUSION

Through this study about COVID-19 we get to know that this pandemic is spreading fastly among humans to humans from animals. The whole world is captivated in it today. It is required to keep social distancing in mind to save human life. COVID-19 is not going to end immediately from our life. Therefore, we have to learn to protect human life by rescuing ourselves from it.

We can restrict pandemic COVID-19 by adopting following steps:-

- Wet market in China must be restrict.
- Be provide high security protective gears in virus labs.
- Need to change in work style through government.
- Need to change in life style through people.
- All types social gathering are prohibited.

Doctors in India have been successful in treating coronavirus. Combination of drugs used:-Lopinavir, Retonovir, Oseltamivir along with chilorphenamine they are going suggest same medicine globally. Plasma from newly recovered patients from COVID-19 can treat others infected by COVID-19.

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