

Research Paper

Novel Coronavirus Pandemic: the role of Healthcare

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ABSTRACT

COVID-19 pandemic outbreak starts spreading from last week of November 2019 from Wuhan, China. Since the first report of coronavirus (COVID-19) In Wuhan, China, till now the outbreak spreads to around 190 other countries. Now coronavirus pandemic becomes a threat to the whole world. To the determine the epidemiology of 2019 Novel Coronavirus disease COVID-19 in a remote region of china, far from Wuhan, we analyzed the epidemiology of COVID-19 in gansu province. From 9 Feb 2021, a total of Coronavirus reported Cases: 10.8M were imported from COVID-19 epidemic areas. As a result of adequate interventions, transmission of the COVID-19 virus in gansu provinace in decreasing.

KEYWORDS: Corona virus, symptoms, medicine, stages and preventing.

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I. CORONA VIRUS

Coronavirus are a group of related RNA viruses that cause diseases in mammals and birds. In humans, these viruses cause respiratory tract infections that can range for mild to lethal. Mild illnesses include some cases of the common cold. The coronavirus pandemic, more cases are now being recorded outside of china, where the virus was first detected in central city of Wuhan, than outside. A corona virus is a virus that is found in animals and, rarely, can be transmitted from animals to humans and then spread person to person. In addition to COVID-19, other human corona viruses have included:

1. The MERS virus, or Middle East respiratory syndrome.
2. The SARS virus, or severe acute respiratory syndrome, which first occurred in the Guangdong province in southern China.

Corona Virus range

Coronaviruses ranges from approximately 27 to 34 kilobases, the largest among known RNA viruses.

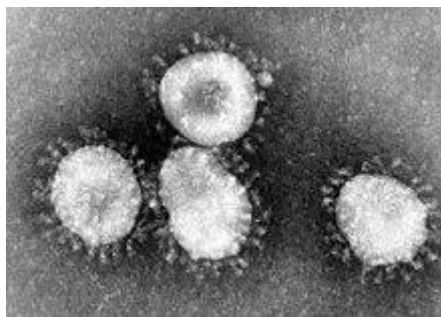


Fig-1: Transmission electron micrograph (TEM) of avian infectious bronchitis virus.

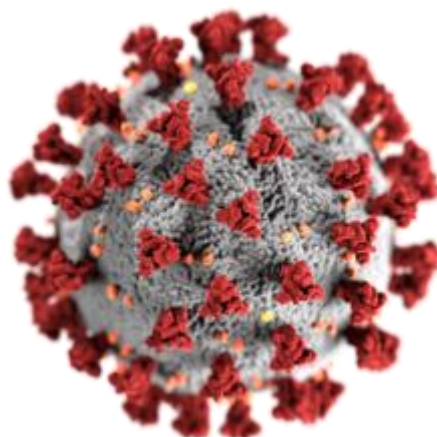


Fig-2: Illustration of the morphology of corona viruses; the club-shaped viral spike peplomers, coloured red, create the look of a corona surrounding the virion, when observed with an electron microscope.

Virus Classification

Family: Coronaviridae

Subfamily- Orthocoronavirinae

Realm: Riboviria

Group: Group IV ((+)ssRNA)

Genus: Alphacoronavirus, Betacoronavirus, Deltacoronavirus and Gammacoronavirus.

Order: Nidovirales.

Genera

1. Alphacoronavirus
2. Betacoronavirus
3. Gammacoronavirus
4. Deltacoronavirus

Synonyms

Coronavirinae¹

Common human corona virus types as:

1. 229E Alpha Corona Virus
2. NL63 Alpha Corona Virus
3. OC43 Beta Corona Virus
4. HKU1 Beta Corona Virus
5. MERS- COV
6. SARS- COV
7. SARS-COV-2.

Help stop coronavirus

1. Hand Wash Properly.
2. Elbow Cough into it.
3. Face don't touch it
4. Space Keep safe distance

5. Feelsick? Stay at home.

General public health information

Corona Virus Symptoms:

Reported illnesses have ranged from mild symptoms to severe illness and death for confirmed coronavirus disease 2019 (COVID-19) cases.

The following symptoms as:*

1. The symptoms will be similar to normal cold and flu.
2. Patients will experience fever.
3. They will experience mild throat pain or no throat pain at all.
4. Difficulty breathing or shortness of breath.
5. People with the weakest immunity may experience diarrhea or nausea.
6. Body temperature is around 36.5 degree centigrade
7. Persistent pain or pressure in the chest.
8. Mild headaches.
9. Feeling of pain on movement or moving any body part.
10. Weakness all over the body with joint pains.
11. Feeling of being exhausted and severe nausea.
12. Vomiting increase patient survive.
13. Day to day fever increase.
14. New confusion or inability to arouse.
15. Bluish lips or face.

Corona virus medicine found

The three allopathy medicine are found as:

1. Lopinavir
2. Ritonavir
3. Hydroxychloroquine.
4. Paracetamol
5. Antihistamin.

Corona virus vaccine in india

Covishield, Covaxine.

Indian Doctors Successfully Cure Italian Corona virus Patients²

Corona virus Ayurvedic medicine found in india as:

Cow Urine, Ayurveda in Sesame Oil and Tulsi ark.

Tulsi Ark-

Tulsi, also known as holy basil, is indigenous to the Indian continent and highly revered for its medicinal uses within the Ayurvedic and Siddha medical systems. Many in vitro, animal and human studies attest to tulsi having multiple therapeutic actions including adaptogenic, anti-microbial, anti-flu, anti-biotic, anti-viral, anti-biotic, anti-filamentary, anti-inflammatory, anti-disease, anti-oxidant, cardioprotective and immunomodulatory effects, yet to date there are no systematic reviews of human research on tulsi clinical efficacy and safety^{3,4}

How Indian Health Authorities Asked Us to Counter Coronavirus⁵

Corona virus Homeopathy medicine found in india as:

the homeopathy drug Arsenicum album 30 as a 'prophylactic medicine' for the prevention of the infection.

Confirmed Cases and Deaths by Country, Territory, or Conveyance

The coronavirus COVID-19 is affecting 177 countries and territories around the world and 1 international conveyance (the *Diamond Princess* cruise ship harbored in Yokohama, Japan). The day is reset after midnight GMT+0. The "New" columns for China display the previous day changes (as China reports after the day is over). For all other countries, the "New" columns display the changes for the current day while still in progress.

ALL OVER WORLD COVID-19 CORONA VIRUS OUTBREAK

View by country in Coronavirus Cases update 9 Feb 2021

Coronavirus cases: 10,69,98,861

Deaths: 23,37,979

Recovered: 78937364.⁴

India Update

View by India in Coronavirus Cases update 9 Feb 2021

Coronavirus cases: 10847790

Deaths: 1,55,195

Recovered: 1,05,46,905.

Here are four stage of corona virus outbreak

STAGE-1: Imported Cases-

When the virus has been transmitted by people travelling from abroad. It is the initial stages of the virus.

STAGE-2: Local Transmission-

When people come in contact with those who travel history to countries affected by corona virus, it is the second stage. India is currently in second stage of corona virus outbreak.

STAGE-3: Community transmission-

Community transmission happens when the infected person has not come in contact with anyone who has a travel history to the countries affected by corona virus. Large scale spread of the virus take place in this stage.

STAGE-4: Epidemic-

This is the last stage of an outbreak. There was a exponentially rising number of confirmed cases as well as deaths.⁵

Pandemic Preparedness

On January 30, 2020, the World Health Organization (WHO) declared the current outbreak of the novel coronavirus “a public health emergency of global concern.” On March 11, WHO characterized COVID-19 as a pandemic. On March 13, the outbreak was declared a (U.S.) national emergency (CDC, March 15, 2020).

According to the CDC, a pandemic is a global outbreak of a new influenza A virus (or other virus). Pandemics happen when new (novel) viruses emerge that can infect people easily and spread from person to person in an efficient and sustained way.

When a virus is new to humans, very few people have immunity to it, and a vaccine may not be available. The new virus will make a lot of people sick, but just how sick people get will depend on the characteristics of the virus, whether people have any immunity to that virus, and the health and age of the person being infected (CDC, 2016a).

The novel coronavirus is spreading rapidly in China and in other countries as well. But, if the virus is isolated and controlled outside of China, the international cases would simply be called outbreaks. Because there is sustained person-to-person transmission of COVID-19 outside of China, it is now a pandemic.

Preventing Measurements

1. Clean your hands often

If soap and water are not readily available, use a hand sanitizer that contains at least 60% alcohol. Cover all surfaces of your hands and rub them together until they feel dry.

2. Avoid close contact

Avoid close contact with people who are sick.

3. Stay home if your sick

Stay home if you are sick, except to get medical care.

4. Cover coughs and sneezes

Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow.

5. Wear a facemask if you are sick

If you are sick: you should wear a facemask when you are around other people (e.g., sharing a room or vehicle) and before you enter a healthcare providers office.

6. Clean and disinfect

Clean and disinfect frequently touched surface daily. This include tables, doorknobs, light switches, countertops, handles, desks, phones, keyboards, toilets, faucets and sinks⁶

7. Clean your hands often. Use soap and water, or an alcohol-based hand rub.

8. Maintain a safe distance from anyone who is coughing or sneezing.

9. Don't touch your eyes, nose or mouth.
10. Cover your nose and mouth with your bent elbow or a tissue when you cough or sneeze.
11. Stay home if you feel unwell.
12. If you have a fever, a cough, difficulty breathing and seek medical attention. Call in advance.
13. Follow the directions of your local health authority.

II. CONCLUSION:

There are hundreds of coronaviruses, most of which circulate in animals. Only seven of these viruses infect humans and four of them cause symptoms of the common cold. But, three times in the last 20 years, a coronavirus has jumped from animals to humans to cause severe disease.

COVID-19, a new and sometimes deadly respiratory illness that is believed to have originated in a live animal market in China, has spread rapidly throughout that country and the world.

The new coronavirus was first detected in Wuhan, China in December 2019. Tens of thousands of people were infected in China, with the virus spreading easily from person-to-person in many parts of that country.

The novel coronavirus infections were at first associated with travel from Wuhan, but the virus has now established itself in 177 countries and territories around the world in a rapidly expanding pandemic. Health officials in the United States and around the world are working to contain the spread of the virus through public health measures such as social distancing, contact tracing, testing, quarantines and travel restrictions. Scientists are working to find medications to treat the disease and to develop a vaccine.

The World Health Organization declared the novel coronavirus outbreak “a public health emergency of international concern” on January 30. On March 11, 2020 after sustained spread of the disease outside of China, the World Health Organization declared the COVID-19 epidemic a pandemic. Public health measures like ones implemented in China and now around the world, will hopefully blunt the spread of the virus while treatments and a vaccine are developed to stop it.

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