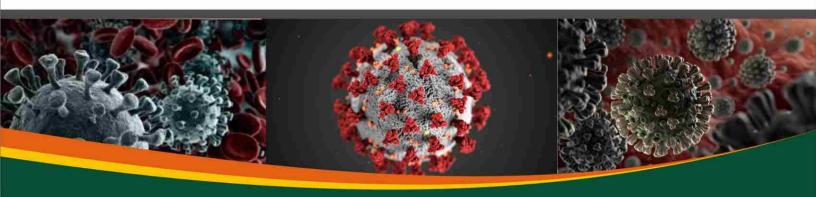


Complied & Edited by



#### INDIAN VIROLOGICAL SOCIETY

OFFICE: F-3 A Block, National Agricultural Science Complex Dev. Prakash Shastri Marg, New Delhi, 110012 Ph.: 7500777999 | E-mail: secretaryivs@gmail.com



# CORONAVIRUS

COVID-19

# What are CORONAVIRUSES

Coronaviruses (CoV) are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV).

## What is Novel CORONAVIRUS?

A novel coronavirus (SARS-CoV-2) is a new strain that has not been previously identified in humans.



## Origin Or Epicenter?

## Wuhan, China

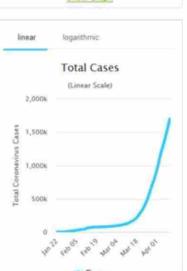
This new virus and disease were unknown before the outbreak began in Wuhan, China, in December 2019.

**Indian Virological Society** 

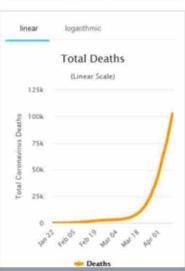


### COVID-19 cases

# 1,221,645 Currently Infected Patients 1,171,716 (96%) in Mild Condition Show Graph







## SOURCE: https://www.worldometers.info/coronavirus



## **Specification**

Coronaviruses are zoonotic, meaning they are transmitted between animals and people. Detailed investigations found that SARS-CoV was transmitted from civet cats to humans and MERS-CoV from dromedary camels to humans. Several known coronaviruses are circulating in animals that have not yet infected humans.



## Incubation Period

The "incubation period" means the time between catching the virus and beginning to have symptoms of the disease. Most estimates of the incubation period for COVID-19 range from 1-14 days, most commonly around five days. These estimates will be updated as more data become available

## Symptoms of COVID -19

Common signs of infection include respiratory symptoms, fever, cough, shortness of breath and breathing difficulties.

In more severe cases, infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death.

SOURCE: WHO



**Indian Virological Society** 



COVID-19	compared t	o other	common	conditions
		COMMO	N.	

		COMMON		
SYMPTOM	COVID-19	COLD	FLU	ALLERGIES
Fever	Common	Rare	Common	Sometimes
Dry cough	Common	Mild	Common	Sometimes
Shortness of breath	Common	No	No	Common
Headaches	Sometimes	Rare	Common	Sometimes
Aches and pains	Sometimes	Common	Common	No
Sore throat	Sometimes	Common	Common	No
Fatigue	Sometimes	Sometimes	Common	Sometimes
Diarrhea	Rare	No	Sometimes*	No
Runny nose	Rare	Common	Sometimes	Common
Sneezing	No	Common	No	Common
*Sometimes for children				

COVID-19: How does it affect you?

## How does COVID -19 Spread?

- People can catch COVID-19 from others who have the virus.
- The disease can spread from person to person through small droplets from the nose or mouth which are spread when a person with COVID-19 coughs or exhales. These droplets land on objects and surfaces around the person. Other people then catch COVID-19 by touching these objects or surfaces, then touching their eyes, nose or mouth.
- People can also catch COVID-19 if they breathe in droplets from a person with COVID-19 who coughs out or exhales droplets.

#### R&D's Role in Pandemic?

Developing new tools in response to COVID-19

#### Cure?

There is no cure yet.

Scientists across the world are working to find out the cure and create vaccine & drugs

## TEST 💆

#### TREAT



#### PREVENT 🚜 🖁



#### **FOCUS ON THE DEVELOPMENT OF** DIAGNOSTICS:

#### SHORT-TERM:

Develop public health surveillance tools, using molecular diagnostics to detect cases for treatment and isolation.

#### LONG-TERM:

Develop point-of-care diagnostics for use by health workers.

#### IDENTIFY AND DEVELOP THERAPIES THAT ARE:

- Safe in humans
- Active against COVID-19
- Quickly manufactured in hundreds of millions of doses
- Deliverable in low-resource settings

#### **IDENTIFY POTENTIAL VACCINES** AND MONOCLONAL ANTIBODIES THAT ARE:

- High efficacy for community protection
- Safe in humans
- Active against COVID-19
- Quickly manufactured in hundreds of millions, if not billion(s), of doses
- Deliverable in low-resource settings

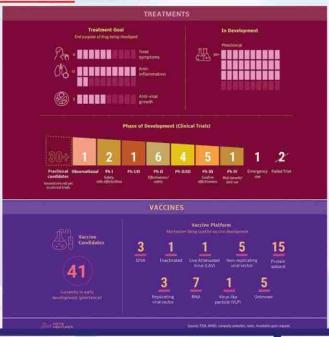


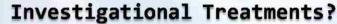




#### R&D's Role in Pandemic:

Developing new tools in response to COVID-19





There is no cure yet.

Rocte

VICP Inhabitor

O Crisial

O Crisia

O Crisial

**Precautions** 

- Regularly and thoroughly clean your hands with an alcohol-based hand rub or wash them with soap and water
- Maintain at least 1 meter (3 feet) distance between yourself and anyone who is coughing or sneezing.
- Avoid touching eyes, nose and mouth.
- Stay home if you feel unwell. If you have a fever, cough and difficulty breathing, seek medical attention and call in advance.
- Follow the directions of your local health authority.
- Stay informed on the latest developments about COVID-19.
- Keep up to date on the latest COVID-19 hotspots (cities or local areas where COVID-19 is spreading widely). If possible, avoid traveling to places







#### Suggested Reading

- •https://www.who.int/emergencies/diseases/novel-coronavirus-2019
- •https://www.cdc.gov/coronavirus/2019-ncov/index.html
- •https://mygov.in/covid-19/
- •https://www.mohfw.gov.in/

