

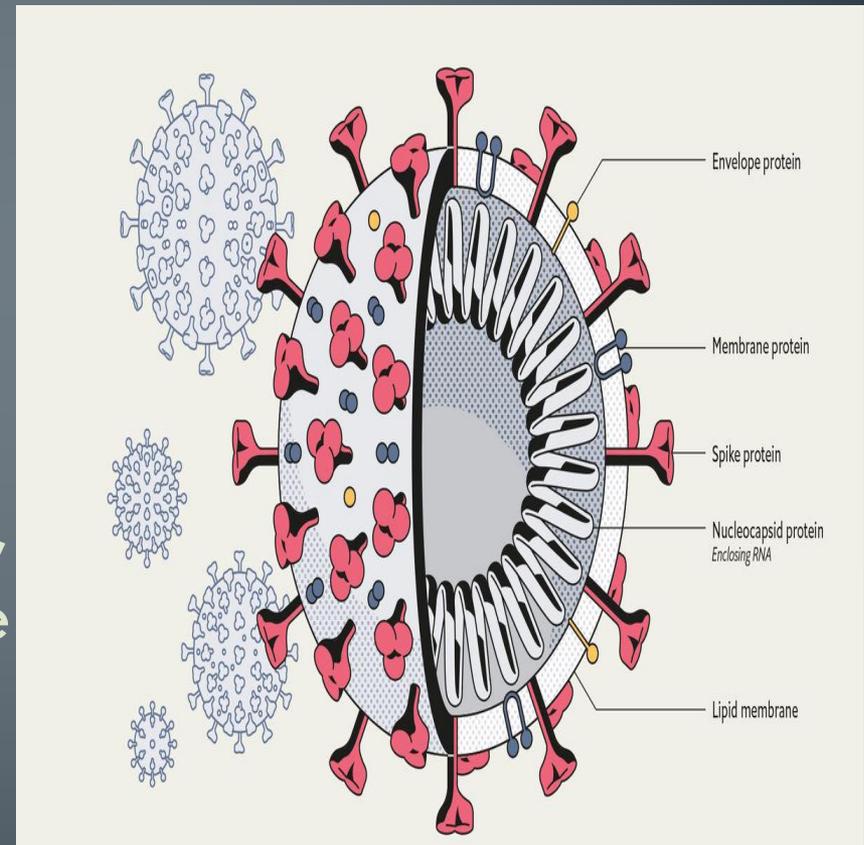
SAGAR INSTITUTE OF PHARMACY & TECHNOLOGY ,(SIPTec)

NEWS LETTER

COVID-19

What is a “VIRUS” ?

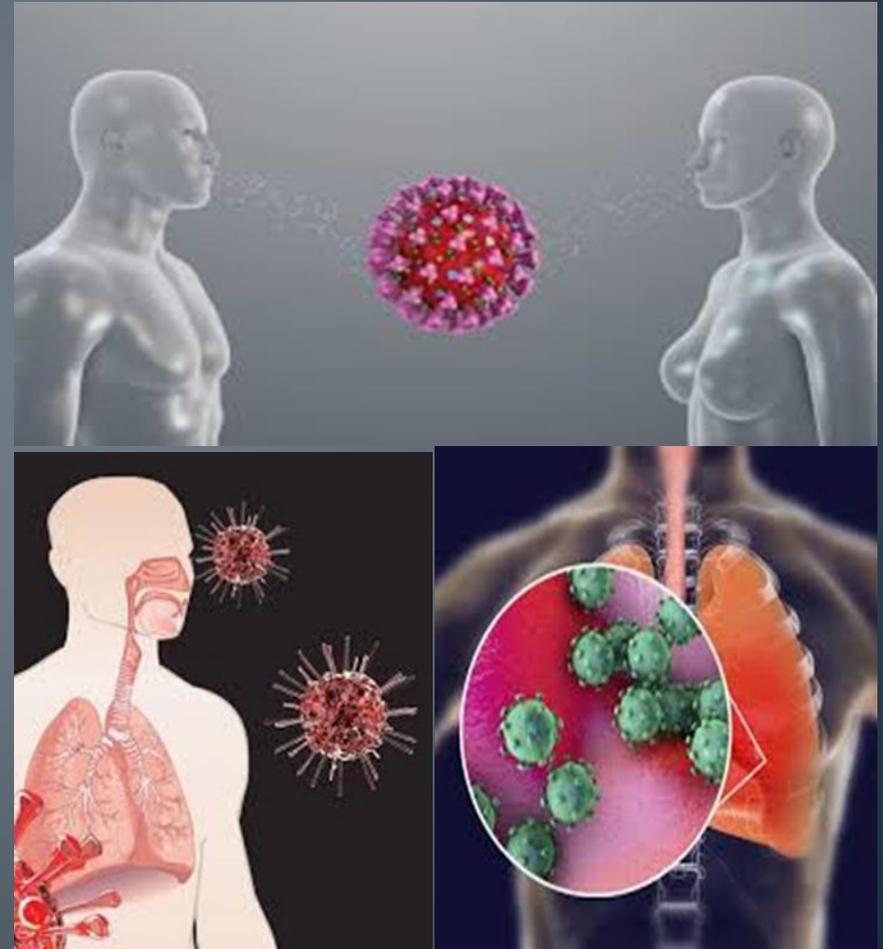
- Virus is microscopic , obligate , intracellular parasites.
- Morphologically, virus particle is a protein shell, in which the viral genome is enclosed.



Introduction to COVID-19

- The COVID-19 pandemic was first brought to the attention of the World Health Organization (WHO) by China when cases of pneumonia of unknown etiology were reported in the city of Wuhan, Hubei Province, on 31 December 2019. It soon became apparent that this illness was highly transmissible and that hospitals in Wuhan were overwhelmed with cases of severe illness, some leading to death.
- On 5 January 2020, scientists in China identified the cause of this illness as a novel coronavirus. Coronaviruses are a large family of viruses that can cause diseases in humans, including the common cold and severe acute respiratory syndrome (SARS). The genome sequence of the novel coronavirus shows that it is distinct from the coronaviruses that caused the SARS outbreak in 2003–2004 and the Middle East respiratory syndrome (MERS) outbreak which began in 2012.
- On 11 February 2020, the new coronavirus was given the official name **Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2)** and the disease caused by the virus was named **COVID-19**. As the epidemic spread rapidly around the world, mainly because of global travel, WHO declared the epidemic to be a Public Health Emergency of International Concern on 30 January 2020.

Viral Transmission



Coronavirus Pandemic Timeline

Medscape



DEC 31, 2019

WHO is informed of cases of pneumonia of unknown etiology detected in Wuhan City, China



JAN 11, 2020

Report of first known death due to an illness caused by novel coronavirus



JAN 30, 2020

The WHO declares "public health emergency of international concern"



FEB 7, 2020

Chinese medic who tried to warn about the virus, dies from COVID-19



FEB 29, 2020

US reports its first COVID-19 death



MAR 3, 2020

WHO warns of "severe and mounting disruption" to global supply of PPEs



MAR 11, 2020

WHO declares COVID-19 a pandemic



MAR 23, 2020

WHO's director general says COVID-19 pandemic "is accelerating"



MAR 24, 2020

After a week with almost no new cases, China announces that Wuhan lockdown will be partially lifted, April 8th



Tokyo Olympics and Paralympics postponed until 2021

Four “Cs”

- WHO transmission scenarios (the four “Cs”) are:
- **No cases:** countries with no known cases.
- **Sporadic cases:** countries with one or more cases, imported or locally detected.
- **Clusters of cases:** countries experiencing clusters of cases related in time, geographic location, or common exposure.
- **Community transmission:** countries experiencing larger outbreaks or sustained and pervasive local transmission.

Data shows the disease is mild in 80 percent of patients, severe in 13 percent, and critical in 6 percent.

Most common symptoms:



Fever



Fatigue



Dry cough

Some patients may also have:



Aches and pains



Runny nose



Sore throat



Shortness of breath



Diarrhoea

In critical cases, COVID-19 can cause severe pneumonia or a multiple-organ failure and can lead to death.

COVID19: Identifying the symptoms

Symptoms	Covid-19	Cold	Flu
 Fever	Symptoms range from mild to severe Common	Gradual onset of symptoms Rare	Abrupt onset of symptoms Common
 Fatigue	Sometimes	Sometimes	Common
 Cough	Common (usually dry)	Mild	Common (usually dry)
 Sneezing	No	Common	No
 Aches and pains	Sometimes	Common	Common
 Runny or stuffy nose	Rare	Common	Sometimes
 Sore throat	Sometimes	Common	Sometimes
 Diarrhoea	Rare	No	Sometimes for children
 Headaches	Sometimes	Rare	Common
 Shortness of breath	Sometimes	No	No

Source

- Google images
- Slide share
- Future learn:- COVID-19 Diagnostics and testing
- Medscape
- Pinterest

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