

DEPARTMENT OF BOTANY AND MICROBIOLOGY, ST. ALOYSIUS COLLEGE (AUTONOMOUS) JABALPUR REACCREDITED A+ BY NAAC WITH CGPA 3.68/4.0 COLLEGE WITH POTENTIAL FOR EXCELLENCE BY UGC DST-FIST SUPPORTED AND STAR COLLEGE SCHEME BY DBT



TRENDS IN MICROBIOLOGY

Sep-Dec 2021



COVID-19

VI-VIRUS 19- 2019

Coronaviruses are a large family of viruses which may cause illness in animals and humans. In humans, several Coronaviruses are known to cause respiratory infections ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS). COVID-19 is an infectious disease caused by the most recently discovered Coronavirus.

CO-CORONA

D-DISEASE



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 are 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

Featured articles

Global Pandemic

Coronavirus (COVID-19) global pandemic currently predominates planet earth and has ground life as we know it to a complete stand still. Some luckily escape with mild flu-like symptoms while others succumb to the devastating effects of severe acute respiratory distress syndrome in spite of ventilator support in intensive care units (ICU).

COVID-19 PANDEMIC: THE SECOND/THIRD WAVE

COVID: FIRST WAVE v/s SECOND WAVE



First wave: June-Sep 2020, second wave: Feb-April 2021



Rev. Dr. J.G.Vazhan Arasu, Principal Patron Dr. Sonali Nigam, Head Chief Editor Mrs. Roshni Choubey, Asst. Professor Editor Ms. Anamma Alex, M.Sc II sem Microbiology Student Editor

"The secret of crisis management is not Good vs Bad. It is preventing the bad getting worse".

Ken Matos

TRENDS IN MICROBIOLOGY Quaterly Newsletter

SYMPTOMS OF CORONAVIRUS COVID-19



STOP THE SPREAD OF CORONAVIRUS

Wash your hands for at least 20
 seconds often with soap and water.
 Clean and disinfect commonly used surfaces.

3. Avoid close contact.

4Don't touch your eyes, nose or mouth 5. 1.Cover your nose and mouth with a mask.











Germs spread easily. Always carry tissues and use them to catch your cough or sneeze. BIN IT

CATCH IT

Germs can live for several hours on tissues. Dispose of your tissue as soon as possible.

Hands can transfer germs to every surface you touch. Clean your hands as soon as you can.

KILL IT

MEDICAL EMERGENCY

Seek medical care immediately if someone has Emergency Warning Signs of COVID-19

Trouble breathing Persistent pain or pressure in the chest New confusion Inability to wake or stay awake Bluish lips or face

This list is *not all* possible symptom Please call your healthcare provid for any other symptoms that are severe or concerning to you.





Vol 1 Issue 21

CORONA VACCINE

fight against Corona Virus

COVID-19 VACCINES

There are four types of vaccines in clinical trials: whole virus, protein subunit, viral vector and nucleic acid (RNA and DNA), each of which protects people, but by producing immunity in a slightly different way.





MYTHS ABOUT THE COVID-19 Vaccine

• MYTH: COVID-19 vaccine alters DNA.

FACT: mRNA doesn't enter a cell's nucleus and cannot change DNA.

 MYTH: It isn't safe because of quick rollout.
 FACT: Thorough safety standards

FACT: Thorough safety standards and trials were met.

- MYTH: Food allergy, immunocompromised, breast feeding or pregnant, people can't get the vaccine.
 FACT: All people can get vaccine.
- MYTH: I'll get COVID-19 from vaccine.
 FACT: The vaccine cannot give you the virus. It protects you.
- MYTH: I've had COVID-19 so I don't need the vaccine.
 FACT: Natural immunity length is unknown. Vaccine fights re infection.
- MYTH: No need for mask or social distancing after vaccine.
 FACT: You must still take precautions to help end the pandemic.

APRIL 2020, ISSUE NO. 19

TRENDS IN MICROBIOLOGY

HE THIRD QUATERLY NEWSLETTER

WAV

We're back in familiar territory - growing concern about a new variant of coronavirus.

It has been named Omicron by the World Health Organization, following the pattern of Greek code-names like the Alpha and Delta variants.

Omicron has such a long list of mutations that it was described by one scientist as "horrific", while another told me it was the worst variant they'd seen.

It has now been detected in more than 30 countries and there are signs it may be able to bypass some of our immunity.

But there are also claims that it could be milder than earlier versions of Covid, such as Delta.

Coronavirus variants: What are they and how do they happen?

1) High numbers of cases increase risk of mutations

The more a virus spreads, the more chance it has to mutate. Thousands of small changes have been seen in coronavirus so far - most with little impact.



Some mutations lead to new variants

Every so often, a virus changes in a way that helps it survive. Scientists are particularly concerned about changes to the spike protein - the part that helps it enter human cells.



What we know and don't know about Omicron variant

- omicron is more transmissible more easily spread between people compared to other variants like the highly transmissible delta variant.
- there may be an increased risk of reinfection with omicron

Departmental activities

- World food day celebration
- Guest lecture
- Workshop for school teachers
- Rose plantation

"Education is the passport for future, tomorrow belongs to those who prepare for today" Malcolm X.