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### RESEARCH ARTICLE

#### PANDEMIC SCENARIO OF TAMLUK IN PURBA MEDINIPUR DISTRICT

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Scenario, Pandemic, Tamluk, Purba Medinipur

#### Abstract

At the end of the last year, 2019 a pneumonia/ SARS like respiratory disease broke out Wuhan, the largest metropolitan area in China's Hubei province. It started in the month of December. On Feb 11, 2020, the WHO Director General announced that the disease is caused by a new variety of corona virus. The disease was called "COVID-19" or "Corona virus disease 2019". Corona virus is large, roughly spherical particles with tuberos surface projections. The objective of this paper is to increase awareness regarding COVID-19 among the people at Tamluk sub-division of purba Medinipur district of West Bengal in India. This paper highlights about different problems such as economical, social, educational and mental during pandemic period in Tamluk sub-division. Preventive strategies are (a) to wash hands frequently with a soap (b) to use personal protective equipment (PPE) such as FFP3 or N95 mask, disposable gown and gloves, (c) to maintain social distancing or avoid close contact with others (d) to avoid touching eyes, nose and mouth, (e) medical care for breathing problem (f) to admit local hospital for fever, coughs or sneezes (g) to avoid public gatherings (h) to stay home etc. The COVID-19 pandemic is spreading day after day all over the world. An immediate discovery of approved Vaccine is required to protect people against this disease.

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#### Introduction:-

According to the WHO, viral diseases continue to emerge and represent a serious issue to public health. Few viral epidemics such as the Severe Acute Respiratory Syndrome corona virus (SARS-CoV) and Middle East Respiratory Syndrome corona virus (MERS- CoV) were found in the year of 2002-2003 and 2012. At the beginning of December 2019, an outbreak of pneumonia with unknown aetiology was found in Wuhan, the largest metropolitan area in China's Hubei province. The Chinese Centre for Disease Control and Prevention and local CDCS organized an intensive outbreak investigation programme. On Feb 11, 2020, the WHO Director General announced that the disease caused by this new CoV was a "COVID-19" or "Corona virus disease 2019". It has spread to more than 180 countries all the world such as USA, Brazil, India, Russia, Peru, South Africa, Chile, Mexico, Spain, U.K, Iran, Pakistan, Italy, Saudi Arabia, Turkey, Germany, Bangladesh, France, Colombia, Argentina, Canada, Sweden, Egypt, Iraq, Poland, Indonesia, Kazakhstan, Belgium, Kuwait, Oman, Philipines, Netherlands and Singapore etc. Corona virus is a large family of positive sense, single-stranded RNA viruses. Common signs and symptoms of corona

disease are fever, cough and tiredness. Other symptoms are chest pain, headache, muscle aches, breathing problem and sore throat. The disease can spread from one person to another person through small droplet from the mouth or nose which are spread when a person with COVID-19 coughs or exhales.

### Objectives of the Study:-

1. The objective of this paper is to increase awareness regarding COVID-19 among the people at Tamluk sub-division of Purba Medinipur district of West Bengal in India.
2. This paper highlights about different problems like economic, social, educational and mental.

### Study Area:

Tamluk subdivision is a subdivision of the Purba Medinipur district in the state of West Bengal, India. It is under Burdwan division. Tamluk sub division has an area of 1,084.30 km<sup>2</sup> (418.65 square miles), population in 2011 of 1,791,695 (1700/km<sup>2</sup>) and density of population of 1,652 per km<sup>2</sup>. 35.16% of the population of the district resides in this sub-division. Tamluk is located at 22.30° N 87.92° E. Headquarters of this sub-division is Tamluk. Tamluk police station serves this block. Famous Bargabhma temple is situated in this sub-division. Tamluk is situated on the bank of the Rupnarayan River.



### Purba Medinipur:

**Map:** West Bengal, source: [www.wikipedia.org](http://www.wikipedia.org)

**Map:** Purba Medinipur, Tamluk  
source: [www.wikipedia.org](http://www.wikipedia.org)

### Features of Covid-19:

1. Corona virus is large, roughly, spherical particles with tuberos surface projections
2. It is an enveloped RNA virus that is diversely found in wildlife and humans.
3. It is a crown like appearance due to the presence of envelope spike glycoprotein.
4. It is known to cause diseases of the respiratory and gastrointestinal system in humans.
5. It is classified into four genera of alpha-COV, beta-COV, delta-COV and gamma-COV.
6. The spread of the virus depends on living spaces, weather conditions, health, age, and immunity.
7. The virus is sensitive to ultraviolet light and heat.
8. This virus is more infectious than SARS and MERS.

### Awareness programme:

The COVID-19 pandemic is spreading day after day in the world at an alarming rate. Tamluk sub-division of Purba Medinipur district is not exceptional too. This virus is more infectious than SARS and MERS. So everyone should be very careful to control the infection of this disease. Some initiatives are taken by Tamluk Municipality. Awareness made by online webinars or municipality campaigns or microphone announcement helped a lot to make people aware about the deadly disease. "Stay home, stay safe" is popularized by the govt. to make the people alarmed. They are made convinced to bring a change in their day to day life style like reducing daily marketing, avoiding unnecessary gathering, maintaining social distance and self hygiene. It has been found that awareness programme has resulted in a decrease in the rate of spread of corona. Some safety measures are followed at Tamluk sub-division such as:-

1. Hands touch many surfaces and can pick up viruses. So wash and clean hands regularly with soap and alcohol based hand sanitizer. Wash hands frequently, especially after contact with infected people.
2. Maintain social distancing at least 1 meter (3 feet) distance between yourself and anyone who is coughing or sneezing. Avoid close contact with infected people.
3. Stay home at safe if you feel illness. Maintain self isolation for fourteen days.
4. If you have fever, cough and breathing problem seek medical treatment.
5. Once contaminated hands can transfer the virus to your eyes, nose or mouth. From there, the virus can enter your body and can make you sick. So avoid touching with your eyes, nose or mouth.
6. Avoid public gathering and use masks.
7. Health worker must use personal protective equipment such as N95 masks, FFP3 masks, gowns, eye protection, gloves and gowns
8. Follow advice given by your local public health authority on how to protect yourself and others from COVID-19.
9. Practice good respiratory hygiene that means covering your mouth and nose with tissue when you cough or sneeze. Then dispose the used tissues or clothes immediately.
10. Avoid sharing dishes, towel, glasses, bedding and other household item if you are sick.

#### Clinical information of the Tamluk sub-division:

| Sub-division | Health & family welfare dept, WB |                                       |                              | NGO/<br>Private<br>Nursing<br>Home | Total | Total<br>Number<br>of Beds | Total<br>Number<br>of<br>Doctors |
|--------------|----------------------------------|---------------------------------------|------------------------------|------------------------------------|-------|----------------------------|----------------------------------|
|              | Government<br>Hospital           | Block<br>Primary<br>Health<br>Centres | Primary<br>Health<br>Centres |                                    |       |                            |                                  |
| Tamluk       | 1                                | 7                                     | 14                           | 70                                 | 92    | 1,506                      | 96                               |

#### Result and Conclusion:-

We are going through the different problems such as economical, social, educational and mental (adjustment, anxiety and depression problem).

Due to this pandemic, many factories of our state have shut down for a long time. So production has decreased a lot. As a result the price of daily commodities has leapt to such an extent that common people have no other option in their hand without dying out hunger.

Human being has become inhuman in this corona situation. Neither they can go to visit their neighbour or relatives, nor allow them to enter their house. As a result they become self-centric and non-cooperative. Even they are not allowed to touch their dear one's dead body due to high contagious nature of covid 19.

In this corona situation, all sector of education system, may it be primary, secondary or higher secondary has faced a great problem. Though some colleges, universities and school have arranged online classes, all students are not getting the facility as they can't afford laptop, Smartphone or other digital devices.

The students, who are attending the online classes, are also facing trouble in preparing studies due to lack of face to face interaction with teachers. Specially, the classes of practical based subjects are mostly impossible to be held by online method. Moreover, the exams that are taken by online method are mostly open book exam. Many students use unfair means in online exams. Thus the reliability on exams to prepare merit list have decreased.

Corona pandemic has affected adversely on our mental health. Parents are not allowing their children to go to outside being feared to be affected. People are also feeling disgusted and getting bored of being locked in their home. People are getting irritable day by day. Aged person are in a depressed state.

However, we all are trying to get rid of the situation. Both state and central government have announced many insurance schemes for health workers. People are provided free ration. The central Govt. has announced a corona virus fiscal package of Rs. 15000 crores for the manufacture and purchase of testing kits, equipment, medication, isolation beds, personal protective equipment and ICUs etc. The India Govt.

introduced Aarogya setu mobile app to educate citizens about novel corona virus and help them make informed decisions and the crisis. Nevertheless, until an approved vaccine is applied we can't get relief.

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