

# CHALLENGES FACED BY CHINA ON COVID-19

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## ABSTRACT

COVID-19 disease is caused by coronavirus, a dreadful virus which affected China on December 19 in the city of Wuhan .In humans , these viruses cause respiratory tract infections that can range from mild to death.Most people infected with this virus have mild to moderate respiratory illness. This dreadful disease is caused by Severe Acute Respiratory Syndrome.Older people and those with underlying medical problems like cardiovascular disease,diabetes,chronic respiratory disease, and cancer are more likely to develop serious illness.The spread of disease is rapid from one country to another.In most of the studies it is being told that the death rates are increasing due to coronavirus.There are no vaccines or antiviral drugs to prevent or treat coronavirus. To review the challenges faced by china on covid19. The literature review is planned using a database like pubmed from the years 2015-2020 to know about the challenges faced by China.

**KEYWORDS :** Coronavirus; Cases recorded;covid 19;dreadful virus;patients;risk factors; symptoms

## INTRODUCTION:

COVID-19 is caused by coronavirus which is a dreadful virus affected China on December 19 in the city of Wuhan(Al-qaness et al., 2020).December 2019 the novel coronavirus spread from Wuhan to rest of china(Xie et al., 2020).The virus intensively spreads that 2 weeks from the first case was diagnosed about 100 patients were declared positive(Spinelli and Pellino, 2020) aims mainly at the respiratory system(Saxena, 2020). Healthcare workers were very new to this infectious disease so had some stressful situation The disease becomes serious with increasing age and with the presence of other disease This is a life threatening disease ,it spreads at a faster rate.This dreadful disease is caused by Severe Acute Respiratory Syndrome(L. Guo et al., 2020).The spread of disease is rapid from one country to another(Centurión et al., 2020).This pandemic disease originates from mice,humans,food(Zhong et al., 2020).The patients with corona had acute respiratory problems,kidney problems,fatigue.Even some patients had loss of smell and the sensation(Richman, Whitley and Hayden, 2016) The spread of the disease has led to stressful conditions and leds to mental disorders(Zandifar and Badrfam, 2020).In one study the author felt it is important to know about goitre but in this review we focus on COVID-19 (Samuel and Devi, 2015).Baheerati tells that infertility is caused by obesity(Baheerati and Gayatri Devi, 2018)but in another study another author feels obesity causes thyroid(Fathima and Preetha,

2016). Corona virus damages the central nervous systems like it causes infections in CNS (Wu *et al.*, 2020). The staffs were uncomfortable to treat patients at first due to lack of knowledge about covid and lack of protection equipments. All the staffs were highly stressed cause day by day the number of patients increased. They did not know the spread of disease. Staffs have psychologists share their problems and also online courses to cope with their stress. (Wang *et al.*, 2020)

### **COVID-19:**

The novel coronavirus emerged at the end of 2019 (Bejaoui, no date). December 2019 the novel coronavirus spread from Wuhan to rest of china (Xie *et al.*, 2020). The virus intensively spreads that 2 weeks from the first case was diagnosed about 100 patients were declared positively (Spinelli and Pellino, 2020). Healthcare workers were very new to this infectious disease so had some stressful situation. The disease becomes serious with increasing age and with the presence of other disease. Day and day the number of cases are increasing the common symptoms were diarrhea, nausea, vomiting and abdominal pain (Rothan and Byrareddy, 2020). In some researchers; the complete viral genome analysis gives the results that 88% of sequence identity to two bat-derived severe acute respiratory syndrome (SARS). Corona virus different from SARS (Wang, no date). The corona virus is enveloped and single stranded. It is told that Coronavirus transmits from one person to another person in the form of droplets by coughing or sneezing. The disease all started in Wuhan from the animals which were sold. It is confirmed that the disease is spread through mammals and birds mainly (Anand *et al.*, 2020). It is found that the sequence of receptor binding in COVID-19 is similar to that of SARS-Co. The mortality rate is less than influenza (Mehta *et al.*, 2020)

### **RISK FACTORS:**

The SARS virus causes pneumonia, organ dysfunction later respiratory failure, chronic liver disease (L. Guo *et al.*, 2020). Cardiovascular problems are foetal. Angiotensin converting enzyme 2 (ACE) in a membrane bound aminopeptidase that has a vital role in the cardiovascular and immune system. ACE2 is involved in heart function and development of hypertension and diabetes mellitus (Turner, Hiscox and Hooper, 2004). When the disease occurs in a patient by the end of first week the disease can progress to pneumonia, respiratory failure and death. Complication witnessed included acute lung injury, ARDS, shock and acute kidney injury. And mostly the adverse effects for old people. The main risk factors are for the patients of older age groups since they do not have the immunity

### **CASES RECORDED:**

The most affected age group is of the age group of the age 30 to 79 years. It is not prevalent in the age of 9 years or less. But the mild symptoms are seen in the age of 9 years. It is known that in February 16 about in the united states there were about 31% cases; 45% hospitalised; 53% ICU; 80% of death occurred in the age of 60 years (Huang and Pranata, 2020). In Japan; 634 persons were confirmed for Corona (Mizumoto *et al.*, 2020; Onder, Rezza and Brusaferro, 2020). China has the maximum cases, after China Italy has the second largest number of COVID cases (Onder, Rezza and Brusaferro, 2020). It has high case rate. (Wu *et al.*, 2020) hospital in Beijing the covid virus was present in the cerebrospinal fluid leading to viral encephalitis (Wu *et al.*, 2020). In the European region the mortality rates are about 30,089 deaths and 464,212 cases are confirmed, in the African region 91 deaths and 4073 cases are confirmed. (Li *et al.*, 2020).

### **SYMPTOMS OF COVID-19:**

The symptoms of corona are they spread from droplets, dry cough. The common symptoms are found to be fatigue, anorexia, diarrhea, arrhythmia, dyspnea (Onder, Rezza and Brusaferrò, 2020). It starts with asymptomatic to acute respiratory distress syndrome. Out of all symptoms; the main one is breathlessness, cough. The complications are acute lung injury, stroke and acute kidney injury. The most adverse outcomes of death is common with elderly population mostly. The spread of the disease takes 6 to 41 days. The spread mainly depends on the age and on the patient immunity (Wang, Tang and Wei, 2020) first the covid patients acquire the digestive symptoms like vomiting, diarrhea, anorexia. (Pan *et al.*, 2020) It is found that the symptoms of SARS and the corona virus is similar starting from headache, cough to fever (Wu *et al.*, 2020) hospital in Beijing the covid virus was present in the cerebrospinal fluid leading to viral encephalitis. The covid patients with severe hypoxia and viremia (Y.-R. Guo *et al.*, 2020). Most of the patient have headache, brain dysfunction, disturbed unconsciousness (Mao *et al.*, no date). In the subset of patient by the end of first week the disease can progress to pneumonia, respiratory failure (Liu *et al.*, 2020)

This review is done because covid-19 is a pandemic disease. Other authors spoke about the symptoms, mental healthcare, risk factors, cases recorded. This review mainly focuses on the challenges faced by China in covid-19.

## **DISCUSSION:**

Nowadays, the dreadful virus affected China on December 19 in the city of Wuhan. This deadly disease is caused by SARS. In the article by Zunguo *et al.*; SARS causes pneumonia which leads to organ dysfunction; respiratory failure; chronic lung disease (Zhong *et al.*, 2020). In the review by Macro *et al.* tells that cardiovascular problems foetal. In another study; Yixuan *et al.* middle respiratory syndrome was identified in Saudi Arabia (Yin *et al.*, no date). In another study; Lee *et al.* does not affect the age group of 9 years. In the other study; Mohammed *et al.* the symptoms of COVID-19 are dry cough, fatigue, anorexia, diarrhea, arrhythmia and dyspnea. In another study; Maeda *et al.* the staffs were uncomfortable to treat patients at first due to lack of knowledge covid19 and lack of protective equipments. In another study; RCT and PCR technique gave negative results. RT gave negative results due to contamination in the blood samples are contaminated. ELISA highly used improve detection of COVID-19 (Chen *et al.*, 2020).

## **CONCLUSION:**

Covid 19 is the pandemic disease caused by the novel corona virus. This virus spreads from the droplets of saliva or discharges from nose mainly from person to person. The best way to prevent and slow down transmission is social distancing, frequently washing your hands. The main symptoms of the disease are fever, shortness of breath, coughing, loss of smell. This virus can lead to severe diseases like pneumonia, respiratory failure and death. This virus triggers the immune system and kill the tissues and later damages the organs. The risk factors of the virus are heart disease, high blood pressure, lung disease, asthma. Swab test is the common method of testing this virus. At this scenario, no specific vaccines or treatments are found. But still researches are being done to find a solution. This review was done to know about the challenges faced by China during COVID-19. This dreadful disease is spreading very fast. This review shows how the disease is spread, how it is transmitted, and also tells information on the symptoms of the disease.

## **AUTHORS CONTRIBUTION:**

Collection of literature and reviews was done by Hiranya, Revision of the manuscript was done by Jothi

Priya and Lakshminarayanan Arivarasu, Drafting of the manuscript was done by Dr. Vishnu Priya.

### **CONFLICT OF INTEREST:**

The author declares that there was no conflict of interest in the present study.

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