



INCORPORATION OF MEDICAL AND NURSING INFORMATION IN COVID-19 PANDEMIC

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Abstract:

Introduction

It is one of the most toughest and challenging times for the entire world. The COVID 19 pandemic has happened in the most overwhelming and unpredictable manner. An epidemic of cases with unexplained lower respiratory tract infection was first detected in the Wuhan city in China. It was then reported to the WHO Country Office in China, on December 19, 2019.

The etiology of this illness has been attributed to a novel virus belonging to the coronavirus family. This pandemic has taken a huge toll on many lives all over the world. Health care workers and professionals are working tirelessly and endlessly in the fight against the novel corona virus.

Corona virus/COVID19 is the name given to the widespread SARS-CoV-2 virus which causes an upper respiratory infection. The rate of increase in the number of positive cases in India is estimated to be around 5.2%. On March 11, as the number of COVID-19 cases outside China increased 13 times and the number of countries involved tripled with more than 118,000 cases in 114 countries with more than 4,000 deaths and the WHO declared the COVID-19 infection as a pandemic. In such tiring times, it is very crucial to stay updated with the correct information and also to take the necessary precautionary steps to prevent infection.

Structure of the virus:

Corona Virus is a positive single-stranded enveloped RNA virus belonging to the family coronaviridae. The name is derived from the Latin word "corona", meaning crown. Viral envelope under electron microscopy appears crown-like due to small bulbar projections formed by the viral spike (S) peplomers. Important structural proteins include spike(S), envelope(E), membrane(M) and nucleocapsid (N).



Pathogenesis of the infection:

The pathogenesis of the viral infection comprises of 3 stages.

Stage 1: Asymptomatic state (initial 1-2 days of infection).

The inhaled virus SARS-CoV-2 likely binds to epithelial cells in the nasal cavity and starts replicating. ACE2 (Angiotensin Converting Enzyme 2) is the main receptor for SARS-CoV-2.

Stage 2: Upper airway and conducting airway response (the next few days).

Biography:

An organised, driven, hardworking student with an excellent educational record, passion for health and wellbeing and extensive experience in hospital settings. Enthusiastic, intrinsically ambitious student of medicine eager to pursue a lifetime commitment towards Neurosurgery. Research passionate with extensive knowledge of the human body and medical solutions through extra-curricular study. A highly approachable, positive individual with good people skills as well as the ability to lead, make critical decisions and work to deadlines. Seeking to pursue every avenue to achieve a career in medicine. With strong analytical and qualitative skills developed over years of medical training with a distinctive ability to capture trends and patterns.

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