



Introduction to Corona Virus and Diagnosis, Symptoms and Management

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ABSTRACT

The various researchers are organologist to consider his thoughts in corona virus flu. Corona virus is large group of virus they directly affect on genetic material. The novel corona virus, identify by Chinese authorities on January 7 and named 2019-nCoV (n- Novel Co- Corona V- Virus), is a new strain that had not been previously identified in humans. Corona virus where attach on become victim of it age group 50-65 those having lesser immunity power. These viruses were originally transmitted between animals and people. SARS, for instant, was transmitted from civet cats to human, while MERS travelled to humans from a type of camel. The World Health Organization has declared epidemic an international public emergency, acknowledging that the virus represents a risk outsides of China.

Keywords : - Corona Virus, SARS, MERS, WHO

I. INTRODUCTION

On December 31, 2019 the World Health Organization's (WHO) China office heard the first reports of a previously unknown virus behind a number of pneumonia cases in Wuhan, a city in Eastern China with a population of over 11million. According to the WHO, Corona virus is a family of viruses that cause illness ranging from a common cold to more severe disease such as Severe Acute Respiratory. For corona virus investigators, the recognition of a new corona virus as the cause of severe acute respiratory syndrome (SARS) was certainly remarkable, yet perhaps not surprising¹. The best studied model for corona virus replication

and pathogenesis has been the group 2 murine corona virus, mouse hepatitis virus, and much of what is known of the stages of the corona virus life cycle has been determined in animals and in culture using this virus. Thus this discussion will focus on MHV with comparisons to SCoV and other corona viruses. The genome of corona viruses is a linear, single-stranded RNA molecule of positive (mRNA) polarity, and from 28 to 32 kb in length^{2,3,4}. Within the virion, the genome is encapsidated by multiple copies of the nucleocapsid protein (N), and has the conformation of a helical RNA/nucleocapsid structure. The S protein has been a focus of pathogenesis studies in mice because it appears to be the critical determinant of cell tropism, species

specificity, host selection, cell tropism, and disease^{5,6,7}. First type in SARS – COV Severe acute respiratory syndrome corona virus identified in China-2003 source by Camel. Second type in MERS – Middle for respiratory syndrome corona virus identified in Saudi Arabia in 2012 source by Cat. Thread type in n-COV Novel corona virus identified in China-2019 source by unknown but some scientist’s hypotheses by chances to stimulate in Bat.

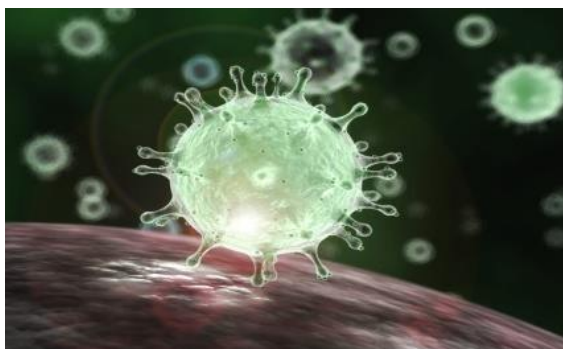


Fig 1. Morphology of Corona viruses.

Has infected more than 8500 people in mainland China. 82 cases have been reported around the globe so far. The diseases are mostly confined to China bat. The virus has reached as far as the US, France, Germany, Australia, Japan, Canada, South Korea, UAE, Eland, Philippines. A total of 180 people have died inside China. The virus originated from sea food market in Wuhan. In this market, wild animal such as Birds, Rabbits, Bats and Snakes are illegally traded. Corona viruses are known to jump from animal to human. First group infected with the disease were from the same sea food market.

Syndrome (SARS) and Middle East Respiratory Syndrome (MERS)

These viruses were originally transmitted between animals and people. SARS, for instant, was transmitted from civet cats to human, while MERS travelled to humans from a type of camel. The name Corona virus comes from the Latin word “Corona”, meaning crown or halo. Under an electron microscope, the image of virus looks like a solar

corona. The novel corona virus, identify by Chinese authorities on January 7 and named 2019-nCoV, is a new strain that had not been previously identified in humans. Little is known about it, although human-to-human transmission has been confirmed.

SYMPTOMS

- Common symptoms:-
- Fever
- After 2 to 7 days develop a dry cough.
- Mild breathing difficulties at the outset
- Gastrointestinal issues
- Diarrhea
- General body aches
- Severe symptoms:-
- High fever (100.4oF) or higher
- Pneumonia
- Kidney failure
- Death

INCUBATION PERIOD	MORTALITY RATE	DIAGNOSIS
02 to 11 days	2%	PCR TEST (Polymeres chain reaction)

Table 1 : Incubation period, Mortality rate and Diagnosis of the corona virus

TRANSMISSION

Coughs or sneezes from infected person or touching a contaminated objects.

→ HOW DEADLY IS IT?

With at least 813 people killed, the number of fatalities from these new corona viruses has surpassed the toll of the 2002-2003 SARS outbreaks, which also originated in China. SARS, SARS, killed

around 9% of those it infected-nearly 800 people worldwide and more than 300 in China alone. MERS, which did not spread as widely, was more deadly, killing one third of those it infected.

→ WHERE HAVE CASES BEEN REPORTED?

Most cases and deaths have been reported in China-the vast majority in Hubei provinces.

Hong Kong and the Philippines have reported in China-the vast majority in Hubei reported one death each from the new viruses. The only deaths confirmed outside mainland China. The virus has save two many countries in Asia, Pacific region as well as Australia, Europe, North America and the Middle East.

PREVENTION

There are currently no vaccines available to protect you against human corona virus infection. Transmission is reduced through:

- ✓ Washing your hands often with soap and water.
- ✓ Avoiding touching eyes, nose or mouth with unwashed hands.
- ✓ Avoiding close contact with people who are sick.

If you are mildly sick, keep yourself hydrated stay at home and rest. If you are concerned

About your symptoms, you should see your healthcare provider.

The recent update of the corona virus Deaths and Confirmed cases (Dec to Jan 2020)

Country	Death number
China	1367
Philippines	1

Table 2: Corona virus Deaths cases

Country	Confirmed cases
China	60,000
Taiwan	18
Thailand	32
Vietnam	15
Malaysia	19
Cambodia	01
UAE	08
Singapore	45
South Korea	28
Philippines	02
India	03
Sri Lanka	01
Nepal	01
Japan	28
US	14
Canada	07
Australia	15
Britain	09
Finland	01
Italy	03
France	11
Germany	14
Russia	02
Sweden	01
Spain	02
Belgium	01

Table 3 : Corona virus Confirmed cases

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