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REVIEW ARTICLE

CORONAVIRUS: JOURNEY FROM CHINA TO OTHER COUNTRIES

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Abstract

Infectious diseases such as SARS and MERS virus present a major threat to public health. A severe respiratory disease was recently reported in wuhan, China, It has been reported that the first patient was reported in 12 December 2019. This severe respiratory syndrome included fever, dizziness and cough. From the patient RNA virus strain a new virus been identified from the family Coronaviridae, which is been named as the COVID-19. This outbreak viral spill over from the animal to cause severe diseases in the human.

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Introduction:-

Coronavirus disease which is caused due to the newly discovered Corona virus.

Most of the people in the various part of the countries are suffering with this infectious disease, Most of the patient which get infected by this virus are the older patient, Cardiovascular disease patient and the patient with cancer and other diseases.

History of Corona virus:

The human corona virus history begins from 1965. Use the "Insert Citation" button to add citations to this document.

In 1965:

Tyrrell and Bynoe Founded a virus and named as B814 (Found in human embryonic tracheal)

In 1965:

Hamre and Procknow founded a virus named as 229E from the sample of student who was suffering from cold.

The both the virus B814 and 229E were ether sensitive. In same time Almeida and Tyrrell had performed an electron microscopy on the B814 and found that the particles which were resembled in infectious bronchitis virus of the chicken were about size of (80-150nm), membrane coated, pleomorphic and covered with spaced club shaped surface.

The virus which was identified by the Hamre and Procknow and the virus identified by the McIntosh (OC) was having the same morphology.

(https://journals.lww.com/pidj/fulltext/2005/11001/history_and_recent_advances_in_coronavirus.12.aspx)

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Coronavirus are of following types:**Severe acute respiratory syndrome (SARS) coronavirus:**

Severe acute respiratory syndrome a type of the coronavirus that came into existence in year 2002-2003 which was came from the southern china and widely spread throughout the world. The SARS virus had infected about 29 countries in the North America, south America Europe and Asia, about 774 death with 8098 people infected by this virus.

Middle East respiratory syndrome coronavirus(MERS-CoV):

In November 2019 about 858 death cases from 2494 laboratory confirmed cases of MERS were reported from this the majority cases of MERS was reported in Saudi Arabia(2102 cases, with 780 deaths)

Symptoms of the corona virus:

1. Sore throat
2. Dry cough
3. High Fever
4. Difficulty in breathing

Reason of spreading of corona virus.

1. Personal contact with infected people
2. Contaminated object
3. Air and Cough or sneezing
4. Mass gathering

Preventions:

1. Wash your hands often
2. Wear a face mask where needed
3. Avoid contact with infected or sick peoples
4. Always cover your cough or sneezing

Treatment and Diagnosis of coronavirus:

Currently there is no treatment of corona virus and no antiviral medication present is used for the treatment of the COVID-19. Treatment is done on the symptoms that are occurred during this virus and they are-

1. Cough syrups
2. Rest
3. Fluid Intake
4. Pain relievers

(<https://www.mayoclinic.org/diseases-conditions/coronavirus/diagnosis-treatment/drc-20479976>)

Some advices for the public:**The Virus COVID-19 cannot be transmitted in hot and humid climates-**

From the studies so far the COVID-19 virus can be transmitted in all the areas such as hot and humid weather , cold weather, etc the best way to protect from this virus is frequently wash your hands.

The COVID-19 cannot be transmitted by the bites of mosquito

Recent studies reported that the COVID-19 cannot be transmitted by the bite of the mosquito. The COVID-19 is a respiratory virus which is spread due to the droplets which generated from the infected person coughs or sneezing or being in contact with the infected person, To protect yourself avoid close contact with infected person and have frequently hand wash with soaps.

Does vaccines used for pneumonia protect you from coronavirus

No, vaccines used for the pneumonia such as pneumococcal vaccines are not used for the COVID-19 (<https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public/myth-busters>)

Diagnosis of coronavirus:

1. Isolation of virus
2. Transmission Electron Microscopy

3. Viral Genome Sequencing
4. Viral diagnosis method

Corona virus In Wuhan:

Wuhan the central city in china with 11 million of the total population, A virus was reported in this city of Wuhan in December 2019.

The authorities of china has investigated this virus in the first week of the January and they amid fear that this virus could be same as the virus (SARS) that killed more than 700 peoples in china in 2002-2003

Later after the investigation the authorities ruled that this virus is not the SARS, even after more cases had been caused. They also claimed that the virus is not transmitted from human to humans. They said this virus is having pneumonia like symptoms i.e cough, fever and difficulty in breath.

The health officials of the Chinese city believed that the virus is originated from the seafoods markets in the Wuhan and they believed that the virus may only be spread from the animals to humans.

On January 20 after many people get infected from tis disease china had confirmed that this virus can be transferred from person to person not just from the animals to human.

Later on they identified the virus as corona virus which may infects throat nose and sinuses and referred as the COVID 2019 or the Wuhan virus.

(<https://www.businessinsider.in/slideshows/miscellaneous/everything-we-know-about-the-mysterious-deadly-wuhan-virus-sweeping-across-china/it-was-later-identified-as-a-coronavirus-which-infects-the-nose-throat-and-sinuses-referred-to-as-the-wuhan-virus-or-2019-ncov-/slideshow/73495632.cms>)

Reports of corona virus (From December to March)

| Country | Total cases | New cases | Total deaths | New deaths | Total recovered | Active cases | Serious cases |
|---------|-------------|-----------|--------------|------------|-----------------|--------------|---------------|
| China | 81,054 | +46 | 3,261 | 6 | 72,4405 | 5353 | 1845 |

(<https://www.worldometers.info/coronavirus/#countries>)

Coronavirus in Italy and Spain (<https://www.theguardian.com/world/2020/mar/20/behave-or-face-strict-coronavirus-lockdown-germans-told>)

After the spreading of the virus in Wuhan it had been spread to many of the other countries and the Italy and Spain both the country had reported biggest single day death due to coronavirus, In Germany about 83 million people warned to be in their homes and ifthey fail to behave responsible .

Reports of corona virus in Italy Spain

| Country | Total cases | New cases | Total death | New deaths | Total recovered | Active cases | Serious cases |
|---------|-------------|-----------|-------------|------------|-----------------|--------------|---------------|
| Italy | 53,578 | | 4825 | | 6072 | 42,681 | 2857 |
| Spain | 28,572 | 3076 | 1725 | 344 | 2125 | 24722 | 1785 |

(<https://www.worldometers.info/coronavirus/#countries>)

Lockdown had been imposed in the Italy and Spain after this widely spreading of virus and the death rates , yet the toll is growing day by day and increasing the death rates.

Coronavirus in India:

COVID-19 a large family of the virus which causes common cold to acute respiratory syndrome, had widely been spreading in India. COVID-19 came in India due to the Indian citizen came from Infected countries .

Government of India had taken many preventive measure regarding the virus, due to huge population of India it's been taking time to control the spreading of the virus

Report of COVID-19 in India:

| Country | Total cases | New cases | Total death | New death | Total recovered | Active cases | Serious critical |
|---------|-------------|-----------|-------------|-----------|-----------------|--------------|------------------|
| India | 425 | 29 | 8 | 1 | 24 | 393 | - |

Indian Government had declared lockdown in many part of countries, shut down all the train services, school & colleges, transport services and many other to prevent the spreading of this virus.

Reports of Other COVID-19 from other countries:

(<https://www.mygov.in/covid-19>) COVID-19 had affected about 192 countries and territories from that the reports given below of some of the countries.

| Country | Total cases | New cases | Total death | New death | Total recovered | Active cases | Serious, critical |
|-------------|-------------|-----------|-------------|-----------|-----------------|--------------|-------------------|
| USA | 34,778 | 1,232 | 454 | 35 | 178 | 34,146 | 795 |
| Germany | 24,873 | | 94 | | 266 | 24,513 | 23 |
| Iran | 21,638 | | 1,685 | | 7,913 | 12,040 | |
| France | 16,018 | | 674 | | 2,200 | 13,144 | 1,746 |
| S.Korea | 8,961 | 64 | 111 | 7 | 3,166 | 5,684 | 59 |
| Switzerland | 7,474 | | 98 | | 131 | 7,245 | 141 |
| UK | 5,683 | | 281 | | 135 | 5,267 | 20 |
| Netherland | 4,204 | | 179 | | 2 | 4,023 | 354 |
| Austria | 3,582 | | 16 | | 9 | 3,557 | 15 |
| Belgium | 3,401 | | 75 | | 340 | 2,986 | 288 |
| Australia | 1,692 | 20 | 7 | | 88 | 1,534 | 11 |
| Norway | 2,385 | | 7 | | 6 | 2,372 | 28 |
| Sweden | 1,934 | | 21 | | 16 | 1,897 | 76 |
| Portugal | 1,600 | | 14 | | 5 | 1,581 | 26 |
| Brazil | 1,546 | | 25 | | 2 | 1,519 | 18 |
| Canada | 1,470 | | 20 | | 14 | 1,436 | 1 |
| Denmark | 1395 | | 13 | | 1 | 1,381 | 42 |

Conclusion:-

COVID-19 been one of the widely spread virus, it had affected many of the countries and also increasing the toll of infected people and death rates day by day. There are no any treatment of vaccines yet available for this virus many of researcher and scientist are trying to develop a vaccine. COVID-19 cannot be treated but it can be prevented.

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