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## COVID-19 PATHOGENESIS

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### ABSTRACT: -

Covid19 is a pathogenic combination of less to severely lethal viruses and bacteria or their parts. This group of bacteria and viruses are found in humans, birds and other animals, naturally or developed due to human errors.

### INTRODUCTION: -

Since this virus is Lysogenic in nature, it combines with the **RNA of other viruses and bacteria** present in the organism and mutate to form new virus every time.

There occurs a mild genetic diversity in Covid-19 virus from place to place and organism to organism, because this virus has accumulated RNA of similar viruses in its genome. In my research, I found the reason behind the death of patient is due to the pathogenic effect of RNA part of lethal virus which is present in Covid-19's RNA.

At present, Covid-19 is expanding by accumulating the RNA of many organisms. This virus was originated in special organism whose body has inactive sub-viral particles. When any virus or bacteria comes in contact with these sub-viral particles then they react together to form new Lysogenic viruses. Pathogenicity of newly formed virus

primarily depends on the assembled RNA parts from the beginning. This pathogenicity would not alter greatly up to many generations.

Due to scientific error Covid-19 was created in the same manner as described above. The lethal effects of Covid-19 were maximally understood by our techniques. These effects are as follows: -

Initial composition of this virus is the main cause of mortality in human beings. Covid-19's RNA is composite of RNA of: -

*Mycobacterium tuberculosis* Human immune deficiency virus Haemophilous Influenza

Some viruses infect respiratory tract of birds and some animals.

That's why its target organ is respiratory tract of human as compared to other body parts; as a result, it is highly pathogenic to respiratory organs; which leads to high mortality rate in immune-compromised or people with weak pulmonary functions.

### **Virus composition-**

The virus mutates itself frequently which brings about difficulty in development of cure without knowing the combination of viruses.

This virus has been developed in experimental animals. The description of virus is as follows initially **COVID 19 = H4DV+B7DV+A2DV=13HBADV**

At, May 7<sup>th</sup> 2020 **COVID 19 = H7DV+B10DV+A3DV=20HBADV**

Its mutable nature is serious matter of concern. To predict its upcoming combination, we can develop a relation as

**COVID 19=IDV+IDAV=IDAV.....**

**Note:** - Covid-19 is a Lysogenic, parallel, conjunctive type IV virus. We have broadly classified all the types of present viruses and the upcoming future viruses. By the help of this classification, we can easily understand which viral infection can be prevented by vaccine and which virus can be cured by antiviral drug. This information can be provided in upcoming paper.

**Pathogenic progression-**

As we know, that the main pathogenic affects arise due to initial RNA components which virus carries at the time of its birth.



This virus is attracted by surfactant which is present in alveoli. That's why it enters respiratory tract through mouth or nose.



Then it starts destroying cilia of respiratory tract epithelium. It takes approximately 10-15 days but this depends on viral load and immunity of patient.



When it reaches to alveoli, it destroys type II pneumocytes and surfactants. Viral infected pneumocytes also release cellular toxins which further enhance alveolar damage.



Sometimes, Covid-19 virus partially affects connective tissue and joints.



Incompetent cilia fail to remove inspiratory moisture, pollutants and alveolar debris. As a result, it starts accumulating in alveoli and interstitial space. That's why; patient develops interstitial edema and dry cough.



So, alveoli and interstitial space are accumulating lots of fluid. As a result, there is significant fall in the oxygen perfusion through respiratory membrane.



Decreased oxygen in the blood leads to dyspnea, tachycardia and acute respiratory distress. And when vital organs like heart cannot receive enough oxygen it would lead to death.



Sometimes, due to heavy viral load, air borne respiratory substance and surfactants mix together and block the airways which also lead to death of patient.

**Life cycle and stages-** covid19 has 70 days of pathogenic cycle with 4 stages

Stages	Days infection from	Mortality rate and effects
Stage1	From the day of contamination- 10 days	<b>15% mortality rate.</b> On immune-compromised person. In this stage loss of taste and loss of olfaction develops.
Stage2	From 11 <sup>th</sup> day- 15 <sup>th</sup> day	<b>40% mortality rate.</b> Virus starts affecting complement activation and killer T cell (cd8 cell) production, which leads to immune-suppression and induces lymphopenia. Virus infected cell secretes prostaglandins which induces fever.
Stage3	From 16 <sup>st</sup> day- 50 <sup>th</sup> day	<b>60% mortality rate.</b> In this stage immunity further deteriorates and virus starts damaging lungs. During this time virus infected cell produces cytokinin which induced cell injury leading to hardening and narrowing of respiratory passage.
Stage4	From 51 <sup>st</sup> day- 70 <sup>th</sup> day	<b>10% mortality rate.</b> Due to continuous multiplication virus enters into self-destruction. As a result, patient starts recovering itself. Sometimes in this stage patient develops hypertension. If patient dies in this stage it is because of opportunistic infection due to compromised immunity.

**Detail symptoms from the day of infection**

Days from infection	Path physiology
Day 1- 4	No symptoms.
Day 5-7	Mild itching in upper respiratory tract. (It starts damaging mucous membrane)
Day 6-16	Virus enters into lungs.
Day 12-20	Virus starts damaging cilia of respiratory tract, produces mild flu like symptoms, like dry cough, sore throat and runny nose. Dry cough develops because cilia fail to clear mucous and inspiratory particles.
Day 21-49 (critical infectious period of 28 day)	First confirm symptom appear on 21 <sup>st</sup> day to 23 <sup>rd</sup> day. And virus is highly damaging between 21 <sup>st</sup> to 36 <sup>th</sup> days. It starts damaging alveoli and vascular endothelium. Leads to accumulation of fluid in alveoli as well as interstitial space.  High fever, body ache, dyspnea, tachycardia, respiratory distress and symptoms vary from person to person due to accumulation of the RNA of various organisms.
Day 49-70	In this stage virus enters into self-destructive phase. And by 60-70 days it will destroy completely. In this stage some patients can develop hypertension due to its damaging effect on lungs and heart. Various opportunistic infections can also infect person due to compromised immune system.

In different places and countries, it combines with various viruses as a result it showed varied signs and symptoms.

**CONCLUSION: -**

We have developed all the above medicines by extracting them from nature and we can provide them for drug trials with 100% cure though this virus was created accidentally, mother earth owns all the cures for covid19 devastation.

❖ This research paper has developed between 25<sup>th</sup> May to 25<sup>th</sup> June.