Is it True that the Corona Virus will take a Few Years to Get Completely Eradicated?

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Opinion

Lots of hope but also illusions. It all depends on the future vaccine [1] that will allow human protection against the Corona (COVID 19) disease.

The disease caused by SARS-CoV-2, termed COVID-19, is multifactorial and associated with both specific antiviral as well as inflammatory responses, the extent of which may determine why some individuals are asymptomatic while others develop serious complications. Here we review possible life-threatening immune events that may occur during disease progression to uncover key factors behind COVID-19 severity and provide suggestions for interventions with repurposed drugs in well-controlled and randomized clinical trials. These drugs include therapeutics with potential to inhibit SARS-CoV-2 entry into host cells such as serine protease inhibitors of the TMPRSS2 cellular protease and drugs targeting the renin-angiotensin system; antivirals with potential to block SARS-CoV-2 replication or factors that could boost the antiviral response; monoclonal antibodies targeting pro-inflammatory cytokines that drive the hyper inflammatory response during COVID-19 progression toward the severe stage and therapeutics that could ameliorate the function of the lungs. Furthermore, in order to help make more informed decisions on the timing of

the intervention with the drugs listed in this review, we have grouped these therapeutics according to the stage of COVID-19 progression that we considered most appropriate for their mechanism of action.[2]

Vaccines save millions of lives every year. In general, vaccines work by training and preparing the body's natural defenses -- the immune system --- to identify and repel the viruses and bacteria they are targeting. If the body is exposed to the same [3] microbes that cause the disease later, it is ready to destroy them immediately and prevent disease.

The vaccine currently prevents 2-3 million deaths each year from diseases such as diphtheria, tetanus, pertussis, influenza and measles. There are presently vaccines to prevent more than 20 life-threatening diseases, and work is continuing at an unprecedented rate to make COVID-19 a preventable disease as well. [4]

Well: The vaccine gives partial protection. The exact mechanism of protection is not yet known and how many times in a year one should be vaccinated. Undoubtedly the vaccine will make life easier, but it is not a solution to the disease. The schedule that supports the human immune system present in the vaccine is very significant, but do not expect the crisis to follow in the blink of an eye!

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The immune system responds to bacteria and viruses in a very complex way: it detects unique molecules (antigens, a foreign substance in the body that activates antibodies' production.) From bacteria and viruses and produces antibodies (a type of protein) and special white blood cells called lymphocytes that mark the antigens for destruction. During the initial immune response Immune response Protects the body from foreign objects or organisms, such as bacteria, viruses or organs or transplanted tissue. For the first encounter with a specific pathogen, some lymphocytes called memory cells develop with the ability to confer long-term immunity and the body's response mechanism to fight bacteria, viruses and other foreign substances. If it is detected that a cell or tissue (such as bacteria or a transplanted organ) does not belong to the body, the immune system will act against the "invader". The immune system is the body's way of fighting external invasions. To the same pathogen, often for life. These memory cells detect antigens in pathogens they have encountered in the past, which causes the immune system to respond faster and more efficiently than on first exposure.

Primary and secondary immune response.(credit ref. [5])

The virus will never be exterminated (eradicated). But within a couple of years, so many people will have had it and acquired immunity that it will no longer be able to spread as it can at the moment with a completely vulnerable population. It will probably also have mutated to become much less virulent. It will join the pool of mild to moderate respiratory diseases we call the common cold, which already includes several earlier coronaviruses. And we may have a vaccine too.

The struggle in Corona disease by the closure will not solve the problem but will lead to another closure. Indeed, it is possible to stop the virus's outbreak and invasion, but not eliminate it. By the closure that exhausts humanity, nothing is solved, only postponed.

It is the pest control of the virus that will bring about the elimination of this rage. But so far no drug will kill the virus. However, coronaviruses have been known to science for about 60 years. Almeida [6], D. Tyrrell [7] and identified coronaviruses (Co Vs) affecting humans' upper respiratory tract in mid-1960's [8]. In late 2002, there was the emergence of a life-threatening CoV of atypical pneumonia, named severe acute respiratory syndrome CoV (SARS-CoV). Also isolated and interrogated. Many antiviral substances from natural and artificial sources [9], there is still no preparation or antiseptic that will eliminate the damage. Mankind was warned about Four years ago the world faced the

Ebola outbreak in West Africa. Panic broke out all over the planet. Governments have intervened mto contain the pandemic. Until the all patients tested negative for the disease, the outbreak claimed thousands of lives and caused billions of dollars in financial losses. President Obama warned the United States to prepare for a return to agenda in 2014, Bill Gates, and many others warned the world of the impending global pandemic caused by viruses. They demanded that the scientific, industrial, and economic should prepare, some work was done but in low gear, too slowly as we experience today.[10] and more against the outbreak of a virus epidemic. But did not devote the full energy and means to its preparation. And here it happens. The leaders brag that they can stop the virus. But they fail next in these battles. Stage fighting the virus.

The Food and Drug Administration is considering whether to follow the British regulators in renewing a vaccine trial against a virus that was stopped when the participant suffered a spinal cord injury because the national health institutions have opened an investigation into the case.

Much uncertainty remains as to what happened to the unnamed patient, to the frustration of those eagerly following the vaccine test's progress. AstraZeneca, which conducts the global vaccine trial it has produced with Oxford University, said the trial volunteer has recovered from a severe spinal cord infection and is no longer hospitalized.

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Although vaccines may be one of the best ways to protect ourselves from the epidemic that is not yet showing signs of cessation, the vaccine is not free of side effects. There is a slim chance that a vaccine will not be suitable for everyone or will cause specific unpleasant side effects to people, especially those belonging to vulnerable categories. Recent discoveries from vaccine studies have only highlighted the same thing, explaining why we should be careful and continue to practice other social measures for our safety.

We explain to you the three most significant side effects that have been discovered so far in vaccine trials: trials, took a break this week (October 11) after one in 60,000 volunteers reported an 'unexplained' illness in the middle of the problems. The vaccine, which is considered innovative in its approach, is regarded as the primary candidate for the vaccine because it requires only one injection of the vaccine and does not require 'freezing' or storage barriers. However, the unexpected reporting of the disease slightly pushed the trials.

A vaccine may be useful when the virus does not mutate frequently; however, the mutating virus might force different modified vaccines for the different mutants.

Here, we learn that new mutants of the virus are identified. For example, the Los-Alamos report: A new mutation of the coronavirus has been discovered - much more contagious. [11]

A mutation in the coronavirus, called G614, is rapidly replacing the previous version worldwide. According to a new study published last week in Cell magazine and conducted at the La-Jolla Institute of Immunology Research in California and the U.S. National Research Laboratory, in Los Alamos.

Due to the Corona: Denmark will destroy 17 million minks After more cases were discovered in which minks transmitted a mutation of the virus to humans, it was decided to exterminate all the minks on farms producing fur in the country. The Danish Prime Minister said: "We have a great responsibility to the whole world" Reuters

Last night (Wednesday), Denmark announced that it will destroy all minks in the country, after some minks bred for somebody identified the fur manufacturing industry as positive for Corona. The fear is that the animals will spread a virus mutation, which could harm humans and harm a future vaccine.

A winter on a farm in DenmarkA mink on a farm in Denmark (Photo: Reuters)

The Prime Minister of Denmark, Mada Fredricksen, said at a special press conference: "We have a great responsibility towards our population, but with the mutation that has now been found, we have an even greater responsibility to the rest of

the world as well." The findings, shared with the World Health Organization and the European Center for Disease Prevention and Control, were based on the Serum Institute's laboratory tests, which deals with infectious diseases in Denmark.

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**Here is a frog in South American jungles....this is the beautiful song by Paul Simon
Señorita With a Necklace of Tears, Paul Simon, the second verse :**

<p>I have a wisdom tooth Inside my crowded face I have a friend who is a born-again Found his savior's grace I was born before my father And my children before me We are born and born again Like the waves of the sea That's the way it's always been And that's how I want it to be</p>	<p>Nothing but good news There is a frog in South America Whose venom is a cure For all the suffering that mankind Must endure More powerful than morphine And soothing as the rain A frog in South America Has the antidote for pain That's the way it's always been And that's the way I like it</p>	<p>Some people never say no Some people never complain Some folks have no idea And others will never explain That's the way it's always been That's the way I like it And that's how I want it to be That's the...</p>
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For more than half of a century, it becomes evident: there is a transformation in the microbial world, and antibiotic agents are not "magic bullets" anymore. The microbes kill thousands in a new pandemic, the nosocomial illness [12] caused by resistant microbes that prosper in the health facilities, mainly the hospital where people look for remedy [13].

"The silent tsunami, crumbling down the pillars upon which modern medicine is built.

Antibiotic resistance that turns ordinary disease-causing microbes (bacteria, viruses, etc.) into illnesses that can't be controlled could bring about the "next pandemic," Centers for Disease Control and Prevention Director Tom Frieden warned at a National Press"

FIGHTING SUPERBUGS IN INDIA: A SHORT FILM [14]

Antibiotic resistance is one of the greatest threats to our societies and health

systems, and the number of antibiotic-resistant bacteria is growing at an alarming rate. The estimated number of people killed by antibiotic resistance each year worldwide is around 700,000, and it is The search for a cure for the nosocomial pandemic. It is believed it will reach 10 million by 2050 [15].

This epidemic is among the most pressing tasks that humanity must complete and successfully as the life cycle increases.

The fight against microbes is now one of the major challenges and has been going on for several generations. Lennon should not forget that the nosocomial epidemic — the microbial epidemic that brings many victims especially to hospitals and health facilities. In Israel alone, about 6,000 have died in the last decade due to microbial infections in which they became infected.

Somebody can regard the current corona epidemic as a branch of the

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nosocomial outbreak. It is an alarming development.

Despite the warnings and rumors that the germ of the microbes was done little and only administrative measures

managed to slow down the death rate of this epidemic. Too little has been done in research and development to eradicate these epidemics on the brink of appropriate drugs, vaccines and pesticides.

Science has found new ways to fight these microorganisms. The skin peptides of tropical frogs contain antimicrobial substances and have been used as a basis for the development of drugs for severe infections [16], but not enough. Authorities must globally support these efforts in order to find the savior path. In the meantime, all the tremendous effort to find a suitable vaccine, even if successful, will be limited to an incurable disease and may be only partially effective.

Fighting the coronavirus by the closure will not solve the problem but will lead to further closure. Indeed, it is possible to stop the virus's outbreak and invasion, but not eliminate it. By the closure that exhausts humanity, nothing is solved.

It is the pest control of the virus that will bring about the elimination of this rage. But so far, no drug will kill the virus. However, coronaviruses have been known to science for about 60 years, and also isolated and interrogated. Many antiviral substances from natural and artificial

sources; there is still no preparation or antiseptic that will eliminate the damage. People warned humankind about 10 years ago and more against the outbreak of a virus epidemic. But did not devote the full energy and means to its preparation. And here it happens. The leaders brag that they can stop the virus. But they fail next in these battles. Stage fighting the virus.

The Food and Drug Administration is considering whether to follow the British regulators in renewing a vaccine trial against a virus that was stopped when the participant suffered a spinal cord injury because the national health institutions have opened an investigation into the case. Much uncertainty remains as to what happened to the unnamed patient, to the frustration of those eagerly following the vaccine test's progress. AstraZeneca, which conducts the global vaccine trial it has produced with Oxford University, said the trial volunteer has recovered from a severe spinal cord infection and is no longer hospitalized.

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Immunotherapy

Genetic Therapy (credit ref.[17]).

The quest for a therapy of the Ebola virus: The role of macrophages and dendritic cells in the pathogenesis of Ebola hemorrhagic fever. . infected Macrophages produce inflammatory cytokines, chemokines and tissue factor, attracting additional and stimulating target cells Vascular dilation, increased vascular permeability and distribution of intravascular coagulation. However, they cannot limit the virus Replication, perhaps due to suppression of interferon responses. Infected dendritic cells also secrete inflammatory mediators, But cannot initiate antigen-specific responses. As a result, the virus spreads to these and other cell types throughout The body, causes multifocal necrosis and a syndrome similar to absorption shock. Apoptosis is a massive "passerby" of a natural killer And T cells further impair immunity. These findings suggest that changing host responses will bean effective treatment Strategy, and treatment of infected macaque with

took a break this week (October 11) after one in 60,000 volunteers reported an 'unexplained' illness in the middle of the problems. The vaccine, which is considered innovative in its approach, is regarded as the primary candidate for the vaccine because it requires only one injection of the vaccine and does not require 'freezing' or storage barriers. However, the unexpected reporting of the disease slightly pushed the trials.

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inhibitor of tissue can reduce both inflammation and viral replication [18]

Recently, Macrophages express a variety of receptors for pathogen associated molecular pathways (PAMPs) such as lipopolysaccharide (LPS) and mannose receptors. These enable the recognition and phagocytosis of a large repertoire of pathogens, and the sub sequent generation of inflammation to eradicate the infection. The slowly (30-10 years) crawling of the disease in the brain may present assort of inflammation of the brainca used by protecting with antimicrobial agents like for example amyloid beta, insulin, amylin, and many more agents, killing the microbes[15]. This in addition to the immune substances like cytokines ("cytokines storm"[16]), and T and B cells, dendrites and macrophages that can attack in addition to the microbes, also the healthy brainneuronic tissue. Macrophages are large, specialized cells that recognize, engulf and destroy target cells. The term macrophage is formed by

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the combination of the Greek terms "makro" meaning big and "phagein" meaning at [17] attacking bacteria cells. This is ending in forming holes in the bacteria cell wall, leading to extrusion of the inner cell liquids.

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Macrophages are large, specialized cells that recognize, engulf and destroy target cells. The term macrophage is formed by the combination of the Greek terms "makro" meaning big and "phagein" meaning eat [21] attacking bacteria cells. This is ending in forming holes in the bacteria cell wall, leading to extrusion of the inner cell liquids. Since there are two lipid membranes, technically, there's a possibility that the holes can be formed on both these layers.

Holes assembling on the OML (outer membrane layer) of Gram-negative bacteria are not sufficient to cause lysis. It is confirmed that the damage must occur to the IML (inner membrane layer). Inner membrane damage is thought to be bactericidal since it is more restrictive in its permeability than the OML. Also, the IML is linked to several important cellular, metabolic functions that require proper ionic gradients. The human α -defensins

show microbicidal activity predominantly against Gram-negative bacteria like *Escherichia coli* and *P. aeruginosa*. However, they demonstrate only low, if any, microbicidal activity against Gram-positive bacteria such as *Staphylococcus aureus*. Others, β -defensin eradicate mainly the Gram-positive bacteria. It is not clear why such selectivity takes place. (Watch macrophages chasing bacteria You tube presentations.

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You can assume that as the plague deepens. More sticking. More patients. More victims. The separation between humans will increase as this is the only way to fight the virus reproduction. I hear that there is a complete closure on Israel. It's just a matter of time. Because the virus, with all the hardships we make it so that it does not migrate from person to person, can escape and wander to its victims. There is no administrative pithrow for the plague but a microbial affliction. Facing the virus with various failures in its reproductive path or bringing in the "virus-eaters" arena in the form of macrophages or dendrites or chemicals and drugs that stand in the way of the virus within the human body. Does that sound like a fiction movie? This will be the reality. Something new was happening. Infection with children. The children pass the virus easily because their immune system is stable and properly functioning. But in the elderly the situation is already different. In addition to all those "childhood diseases" that have been incarcerated in the body and employ, all the lives of the elderly, their immune systems in containing those measles, mumps, chickenpox and herpes viruses, they already have chronic illnesses and are weak and living with assistive medicine. They are the ones infected with the viruses that the children spread in the space we exist in. And they can cause the death of the elderly and so the children should be prevented from getting infected. And that justifies the quarantine on the children. And postponing schooling until the rage passes.

The cry on the Corona is one: it is neither a smartphone nor a car navigation program. It's biotechnology and biology and medicine and it's just neglected because there's no quick profits in it. Simple and for that matter.

That is why we stand and are now all over the world before a broken trough. It will take years to close the gap.

But from reading the scientific articles I am optimistic. Scientists have come up with some solutions to eradicate the Corona family's cruel virus. Let them work and don't tell them "bring money from home," as you have for years. Shame and shame. There is a "big dock" that is a nice virus, kills only 5% and mostly elderly

people. But unfortunately, biotechnology and medicine mostly require a lot of time.

The virus can only be curbed by drugs and vaccines. All administrative steps may slow down the spread but not stop it completely.

And, as in other cases, it is the salvation of God that will bring the virus to rest, like those in AIDS and Ebola. And he said in the pomp, "And the salvation of God comes in a blink of an eye....."

What are the Best Ways to Protect Your Lungs during the COVID-19 Epidemic?

Do not live in the same household with someone who does not take proper precautions when they are out of the house or apartment. Indoor transmission is the most common [22]; It's almost guaranteed.

Try not to spend a long time indoors with someone whose disease state you do not know completely. Theaters, churches, restaurants, gyms, offices, etc. were the sources of a huge disease spread. Avoid outdoor events where you are very close to other people even for extended periods (e.g. sporting events). Football games are what caused deadly outbreaks in Italy and Spain.

Do not spend time at home where other people do not wear masks. Do not stay close to anyone outside who is not wearing a mask.

Wear a mask yourself whenever you are in a public place or outside in a situation where you are close to other people.

Wash or cleanse your hands whenever they have touched things that other people may have recently touched or been near.

In addition to a layered mask, wear glasses or a face shield to protect your eyes if, for some reason, you must be close to someone you do not fully know the condition of his disease.

If you must go to a job or office indoors, open windows, and encourage airflow from the outside. Use in-room air filters with UV-C light for sterilization if available. Try not to place yourself "in the spirit" of someone you do not know the disease's condition (based on airflow from HVAC or other sources).

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Be aware of your vitamin D status. If you are not spending time outdoors building natural vitamin D, take affordable supplements.

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Citation: Shimon Shatzmiller et.al, (2020), "Is it True that the Corona Virus will take a Few Years to Get Completely Eradicated?", *Arch Health Sci*; 4(1): 1-10.

DOI: 10.31829/2641-7456/ahs2020-4(1)-149

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