

THE VIRUS THE VARIANTS THE VACCINE AND **GALELA OIL**

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INTRODUCTION

Infectious diseases take advantage of a poor state of health to thrive. This is generally known as opportunism or opportunistic infections. This is a common and an expected occurrence in individuals living with HIV&AIDS where the immune system is weakened and various vital organs underperform to sustain homeostasis.

Maintaining homeostasis is a crucial need for our bodies. Any form of imbalance is an invitation for diseases. For instance, a prolonged exposure to cold weather may result in hypothermia occasioning otherwise a harmless flora bacterium to migrate in lower respiratory tract to cause pneumonia. The root cause of pneumonia in this case is not necessarily *Streptococcus pneumoniae* (pneumococcus), but the breakdown in thermo-regulation that can be traced right to mitochondrial failure.

Risk factors

risk factors / co morbidities: metabolic diseases, prolonged use of anabolic steroids, hypertension, prediabetic and diabetic individuals, respiratory conditions, visceral organ issues (liver impairment, kidney failure, pancreatic diseases – insulin resistance,) obesity, (metabolic obesity: belly fat- weight around midsection of the body indicative of fatty visceral organs, chemotherapy, HIV&AIDS, long use of steroidal drugs, old age, smoking (always causing sub optimal-immune response as nicotine adversely affects immune system ...



With SARS-CoV2, studies have shown how people with co-morbidities were at risk of developing complications, hospitalization and it is in the same class many fatalities are reported.

The SARS-CoV2 vaccines that currently exist to teach our bodies how to fend off the virus, are a big leap for humanity. Scientists and researchers have expended invaluable time and efforts, used enormous resources to arrive at the breakthroughs that are making remarkable change in peoples' lives. Setbacks on the vaccines have been reported and investigated, and it remains to be seen what their (vaccines) long-term effects (or side effects) will be, but it has to be acknowledged that they are part of the solution in a worldwide crisis.

Covid 19 has vividly shown how we desperately need to get our bodies in shape, improve our immune system and promote homeostasis, and above all, we should do it in the most natural way possible to avoid further complications.

As we laude the advent of new technologies, we cannot ignore what has always worked. Galela Oil is an extract from different medicinal plants that has been successfully used to reverse the course of many illnesses. In a study conducted on mice, it has been established that GO is an immune modulator and a thermoregulator. These properties enable this product to confer the subjects an optimum homeostasis and an ideal immune system function as we will see below.

1. SARS-CoV2

What Covid 19 is

The simple definition of a virus is: a shell of protein surrounding a genetic material (DNA or RNA). These genetic components are either DNA or RNA. SARS-CoV2 falls under viruses with RNA components. Viruses rely on the cells of other organisms to survive and reproduce, because they can't capture or store energy by themselves. In other words, they cannot function outside a host cell.

What Covid 19 does to the body

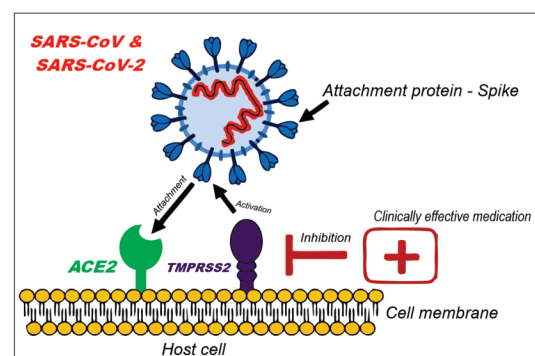
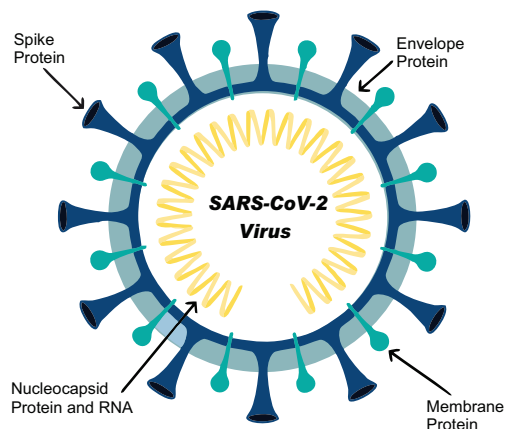


Think of a virus as a pizza. If you don't come in contact with the pizza (with a face mask on), you will not eat it. If a pizza delivery man (infected person) rings the door and you fail to answer (social distancing), he will go away without the pizza entering your mouth and subsequently your stomach (getting infected and becoming sick).

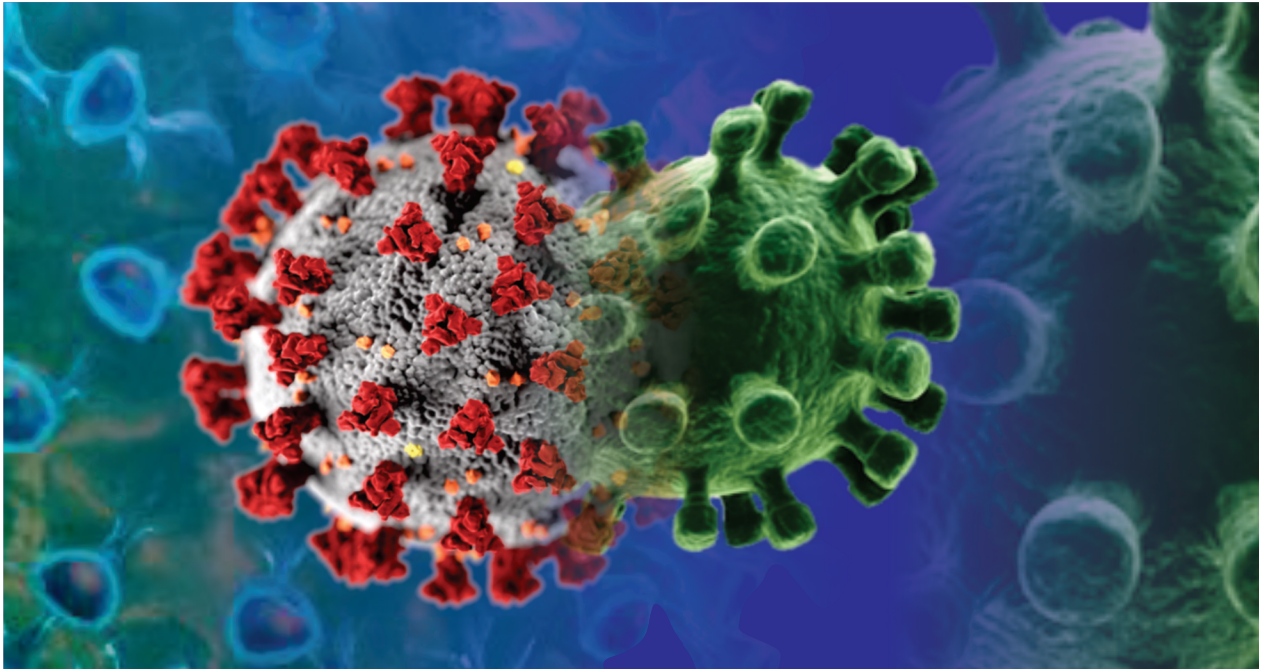
Pizza (the genetic components), comes in a box (lipid protein layer). It is the pizza that goes in your system, modifies your physiology via metabolic processes (viral replication) that makes you full and eventually fat(sick). The Pizza in a pizza box cannot survive for long before it goes bad, it will therefore need to be in your stomach as quickly as possible otherwise it will no longer be effective as food.

How it(SARS-CoV2) does it

Once Covid19 virus has entered a human system, mostly through the nose, it quickly attempts to attach itself onto the host cells through its spikes. The spikes aim for the bilayer lipid molecule receptors(ACE2 receptors). After docking on the receptors, the virus releases its RNA components into the host cells which in turn uses the host cell to make more copies of itself. These copies are then released to infect the adjacent cells and this process is repeated over and over again. The viral RNA is a blue print containing instructions for the host cell on what it should synthesize.

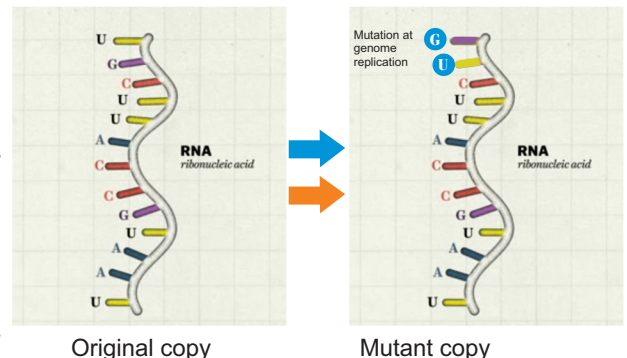


2.THE VARIANTS



Why are there variants?

In the course of replication or making copies, sometimes, the virus makes a mistake (like how a printer runs out ink and some letters are faded or deleted. Or, the ink cartridge malfunctions and more ink is deployed resulting in the copy appearing to have more lines or letters than it should). The deviation from the original copy is called a mutation and mutant genetical components may alter the instructions in making new copies of virus (a copy of an incorrect copy is always incorrect). Therefore, mutations are carried over through future mutations.



Why are variants more complex?

Most of the times the process of mutation that result into variants, weaken the virus to the point that viruses become a non-issue for the body to deal with.

Other times however, the process of mutation occasions a series of events that may give the virus more virulent properties and complexity for the body's immune system to handle, and that is the case for SARS-CoV2 in September of **2020 B.1.1.7 VARIANT** aka **Alpha variant**, or **B.1.351** Variant that was prominent in South Africa and Brazil. The variant could bind ACE2 receptors and penetrate human cell better than its original version. Certain mutations are able to weaken and /or evade natural and vaccine derived immunity.

DELTA (B.1.617.2) variant of SARS-CoV2 upon its identification was and remains more contagious and has the ability to spread fast with deleterious effects in the body.

What the variant does to the body

Due to changes in the genetical instructions, the mutated virus has the ability to affect other parts of the body than the original copy of the virus. With Delta variant for instance, we have seen symptoms changing from the traditional Corona virus respiratory complications to pronounced malaise, joints and back pains with a departure from the sensory interference of taste and smell.

What the variant does to the vaccine

The goal of a vaccine is to teach the body's immune system how to identify and mobilize antibodies against potentially harmful foreign agents such as viruses and common allergens.

A non-mutated virus is like a thief who has been identified and physical information given to all roadblocks(antibodies). The information will provide biophysical data (the genetic makeup) and may include details like, the thief is fleeing alone in a black Mercedes (morphology and spike proteins). If the thief wears a fake beard(mutation), does a quick paint job on the Mercedes and paints it blue (mutation in spike structure), then picks up a mother and her baby along the way (modification in genome and genetical instructions), many roadblocks are likely not to pay attention allowing the blue Mercedes to pass. Same thief, same Mercedes pausing same problems or worse since he has a mother and a baby on board.

Variants, have a likelihood of throwing off vaccine mounted roadblocks; in other words they can evade natural and vaccine derived immunity.

3. THE VACCINE

What the vaccine is

By definition, a vaccine is medicinal formulation or preparation containing weakened or dead microbes of the kind that cause a disease, administered to stimulate the immune system to produce antibodies against that disease.

What the vaccine does to the body

The vaccines' goal is helping your natural immune system to identify and fight the virus in order to lessen the complications of infection. These complications range from severe symptoms, hospitalization, and in worst case scenario, death. A vaccine will defang the virus as it were, so that a potentially devastating viral infection will only feel like a case of a common cold. The vaccines are being produced and approved with the hope of reducing mortality and morbidity to minimum cases.

Available vaccine brands:

- *Pfizer/BionTech - American*
- *Moderna - American*
- *Johnson & Johnson - American*
- *Oxford/AstraZeneca - British*
- *SputnikV - Russian*
- *NovoVax – American*
- *Sinovac/Sinopharm – Chinese*



How vaccines work

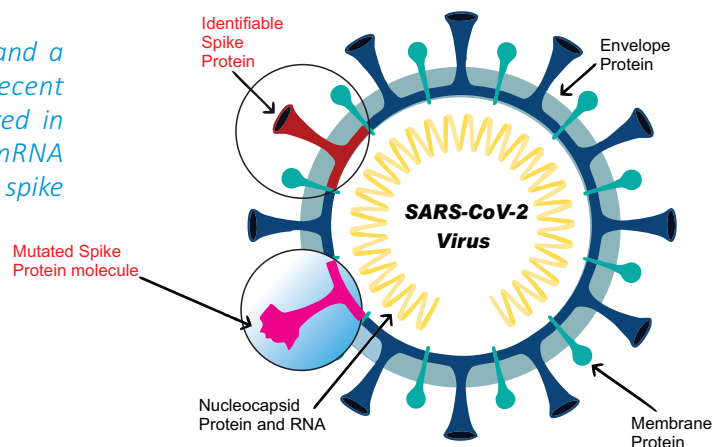
mRNA vaccines

Traditional technology of making vaccines was based on the inoculation of weakened or dead version of the virus or bacteria. These viral or bacterial components are too weak to make a person sick but they are still good enough allergens to train the immune system to identify and destroy the real virulent version of virus or bacteria at a future exposure.

mRNA vaccines developed to fight the spread SARS-CoV2, differ from the traditional vaccines in that, they train the human cell to identify the viral components, mainly the spike protein by having the host cell produce the spikes itself.

Researchers achieved this by taking the SARS-CoV2 RNA, isolated the part responsible for producing the spikes and made mRNA (messenger RNA), a special form of RNA that enters the cell and gives it instructions.

mRNA vaccines, were a breakthrough and a turning point for the pandemic. In recent months however, the virus has replicated in several mutations that may render mRNA instructions less effective as the variants spike molecules change in form and shape.



Why people need a first, a second and sometimes a booster shot

Studies have shown that a single shot of covid19 vaccine is not enough to provide strong immune response against the virus. WHO recommendations therefore are for a second shot to be given in 2 weeks to one month apart. Because of the rise in variants however a booster shot is being proposed for a section of the population for instance, those who are severely immunocompromised such as individual who have undergone organ transplant, or those on hemodialysis, etc. to go hand in hand with the traditional measures of minimizing the spread of the virus. i.e., mask mandate, social distance, using of hand sanitizers, avoiding unnecessary gatherings etc.

A vaccine is never meant to eradicate a virus, especially given the fact that variants of the said virus may keep emerging like in the case of SARS-CoV2.

Currently, the main concern on the vaccines that have been rolled out is reliability in the face of numerous mutations and changing genetic behavior of SARS-CoV2.

4. GALELA OIL

What is Galela Oil?

Now a household name, it has divided opinions pitting those who view it as a merely traditional herbal concoction with minimal medicinal value, against those who swear by its near magical ability to reverse the course several illnesses in a matter of days. The opinion that should interest us however, is that based on empirical evidence, research and other irrefutable scientific observations that led to GO being a subject of discussion that won't just go away.

Go is not an entirely new product. It has been in existence from as early as 2016. It was manufactured by **Engineer Thami Mtshali**, a South African chemical engineer, graduate of **Tuskegee university**, home of **Goerge Washington Carver**, the greatest African American inventor. Also, a graduate of **Akron university** (MSc chemical engineering) with a long history of biochemical work in different parts of the world but mainly in USA and South Africa, in collaboration with a medical team.

GO, was extracted from naturally occurring medicinal plants, treated to attain stability without preservatives and other adulterating chemical properties. This makes GO user friendly and has minimal to no side effects when taken orally.

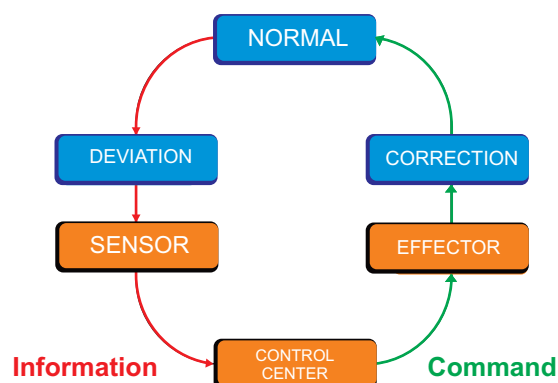
After its review in USA, it was registered for human consumption as a dietary supplement product by FDA.

What GO does to the body

To understand GO's activity in the body, we need to first define what sickness is. Sickness is a less than ideal state of one's health. A condition that negatively affects the anatomy and or the physiology of one or numerous parts of the body.

Diseases, whether communicable, non-communicable, infectious or noninfectious, all have a common denominator; interfering with body homeostasis.

The breakdown in body homeostasis and physiological equilibrium is what we call unwellness, or sickness.



HOMEOSTATIC CONTROL MECHANISM

The homoeostatic system in the body acts through self-regulating devices, which operate in a cyclic manner. This cycle includes four components:

- Sensors or detectors, which recognize the deviation
- Transmission of this message to a control center
- Transmission of information from the control center to the effectors for correcting the deviation. Transmission of the message or information may be an electrical process in the form of impulses through nerves or a chemical process mainly in the form of hormones through blood and body fluids.
- Effectors, which correct the deviation.

Courtesy - earthslab.com

A viral infection such SARS-Cov-2, simply introduces a malfunction that throws off homeostasis in different parts of the body. GO has been found to restore homeostasis, holistically once an adequate dose has been taken.

In the study conducted on mice, GO has shown the ability to cross the Blood Brain Barrier(BBB), thus having a regulatory influence on major body systems. This has occasioned observations such as its ability to relieve pain, gastro intestinal (GI) regulation, thermo-regulation among other functions.

It was established that GO boosts immune system at macrophage level by stimulating macrophage cells/ activation factors mobilization.

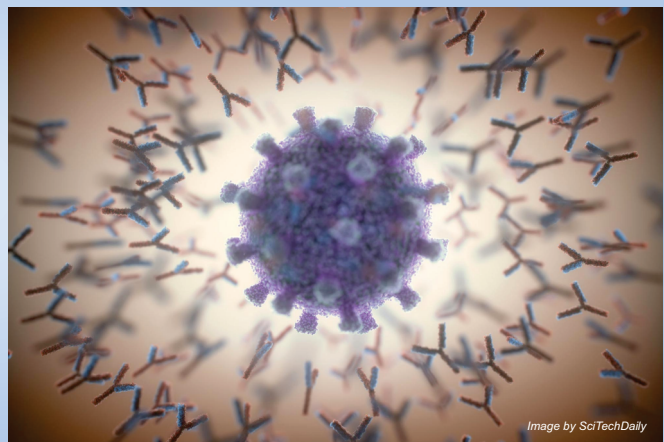
What GO does to the virus

The entry points of the virus are the nose, the mouth and the eyes (commonly known as the T section of the human face). Galela Oil's first interaction with the virus is at the extracellular lever in the mucus membrane pending the docking and penetration into the cell.

GO, BY stimulating the Mucosa (Mucous Membrane) in nose and mouth, it prevents the virus from jumping on a carrier driving to the lung to reach an ACE2 receptors which is the entrance gate.

GO also facilitates a very strong binding of the virus to the Mucosa in a glue-like effect (the virus needs the Enzyme Neuraminidase to be released and this Enzyme is inhibited by GO) and this makes it very difficult for the virus to leave the Mucosa and start its travel to the lung. This shows that GO is assisting the different defense systems and helps the first line of defense to recognize the whole protein complex and not only single proteins which might be affiliated to mutations.

Macrophage stimulation means adequate mobilization of immune cells so that the whole virus complex chances of docking and subsequent penetration into the host cell are greatly reduced. This is ideally what the vaccine is supposed to achieve. Therefore, GO work of fending off the virus starts early enough and not only at the moment when the virus is able to start replication.



What makes GO safer

GO, is a formulation from naturally occurring ingredients. It is devoid of chemicals and preservatives which are usually the major source of adverse effects.

Its medicinal components occur in low concentration and are unlikely to cause any major side effects and that is the reason why GO is to be taken regularly to achieve its action potential. It is well tolerated and can be taken by children and pregnant women.

Why it is effective on both the virus and the variants

Given its mode of action at molecular level both extracellularly and intracellularly, GO assists the body in fighting not only the virus but the variants through its holistic approach of protein molecule identification. Because of the holistic viral detection approach, GO ends up treating not just corona but other viral infections. Through neuraminidase inhibition and stimulation of the macrophage cells, GO acts as a good adjunct medication in the fight against SARS-CoV2.

CONCLUSION

While Covid-19 is the immediate problem that the world of science is trying to solve, we are not oblivious to socioeconomic impact occasioned by Covid crisis. Galela continues to feel the urge of being part of the solution. Considering several solutions will enable us to prevent massive spikes of infections, flatten the curve for each wave and variant and allow ourselves to gradually return to normalcy.

Galela Oil is not a wonder oil or a miracle oil as many would have us believe. In the words of **Prof. L Mehlber**, who dedicated most of his sunset years conducting research on this product: **"in science there is no room for miracles, we must seek and strive to know and understand and thus be able to explain everything"**

Galela Oil has proven to be a story. a story told by thousands upon thousands of people who were sick and got well after using the product.

"I have recently listened to people surviving this third wave on the back of Galela. Against these testimonies are scientific explanations by the now late lead scientific researcher Mehlber on how Galela works" - **Dr. Pali Lehohla**, *former statistician-general of South Africa and the former head of Statistics South Africa.*

Over tens of thousands in different parts of the world have used Galela Oil to fight SARS-CoV2 with successful results. GO has been used from ICU patients to home patients who were suitably diagnosed with Covid-19 and more people have used it as a prophylactic measure, most of whom reported positive outcome at every occasion. Only few cases were reported where GO did not work and in most of those cases the patients had long term underlying co-morbidities. GO network tracker has shown that referrals to the product have increased including many health professionals preferring GO over many 'conventional' medicines.

- *GO offers a safe solution for optimum immunity against SARS-CoV2 and other pathogens.*
- *Go's safety comes from the fact that it is extracted from naturally occurring medicinal plants.*
- *GO blocks viral docking and viral penetration through molecular inhibition of Neuraminidase enzyme.*
- *GO fires up macrophage cells to fend off pathogens.*
- *GO crosses the Blood Brain Barrier and affects positively the homeostatic mechanism*
- *Homeostasis achieved as a result of taking GO, does not only work on viral infection such Covid 19 but also on many other pathogens and non communicable diseases.*
- *In Covid19 treatment, GO has been found to inhibit the virus from latching and penetrating the host cell.*
- *GO is not spike protein selective, it works on the whole viral complex therefore offering high protective properties extracellularly.*