



CLINICAL ANNOUNCEMENT FAQ

Does this therapy cure COVID-19?

This isn't a cure for COVID-19. It is, however, a significant medical breakthrough in the fight against COVID-19.

We believe the fastest way to eliminate COVID-19 in society is by quickly reducing viral load in people with active infections and mitigating transmission to others. The advent of vaccines is a welcome relief. Administering vaccines takes time. Elimination is best achieved through both vaccines and treatments for those who are not yet or choose not to be vaccinated - or for whom the vaccine was not effective.

In a clinical trial, the EmitBio device used twice daily, 5 minutes per session, in a home use environment as a treatment for mild-to-moderate COVID-19 substantially reduces viral load resulting in greatly reduced secondary community transmission of SARS-CoV-2 and a faster time to symptom resolution.

How would this therapy fit in with vaccines?

This therapy is a complement to vaccines. We believe the fastest way to eliminate COVID-19 in society is by quickly reducing viral load in people with active infections and mitigating transmission to others. The advent of vaccines is a welcome relief, but administering vaccines takes time. Elimination is best achieved through both vaccines and treatments for those who are not yet or choose not to be vaccinated - or for whom the vaccine was not effective.

Keep in mind that roughly half the people who test positive for COVID-19 will have a mild-to-moderate case. We have to give them more than 'go home, quarantine, and hope for the best.' It's a public health imperative that every adult diagnosed with COVID-19 has an available treatment option that eliminates the virus and returns individuals to pre-infection health.

Does this prevent COVID-19?

Approximately half the people who test positive for COVID-19 will have a mild-to-moderate case. We have to give them more than 'go home, quarantine, and hope for the best.' It's a public health imperative that every person diagnosed with COVID-19 has an available treatment option that eliminates the virus and returns individuals to pre-infection health.

Is this therapy approved by FDA?

The device to deliver this therapy has been designed as an at-home treatment for COVID-19 in adult patients with positive results of direct SARS-CoV-2 viral testing and has been submitted to FDA for Emergency Use Authorization.

When will this therapy be available? How much will it cost?

EmitBio has applied to the FDA for an Emergency Use Authorization.

I thought the problem with this virus was the lungs. How does this help?

The SARS-CoV-2 virus has been shown to primarily infect cells in the upper respiratory tract (nose and throat) that are rich in the receptors the virus uses to initiate infection. Once infection occurs, SARS-CoV-2 spreads to lower levels of the respiratory tree, including lung tissues that, at times, result in severe pneumonia and death. While severe disease almost always manifests in the lungs, primary infection generally occurs in the upper airway. Preventing infection or inhibiting replication of the virus in the upper respiratory tract, can prevent, or minimize, spread to the lungs. As a result, severe COVID-19 pneumonia can be mitigated.

What is this therapy? / What does your data show?

In investigating various wavelengths of light from non-coherent, monochromatic, semiconductor sources across the light spectrum, we discovered:

- Safe energy densities of specific wavelength of light effectively create an **antiviral environment** by inactivating viral particles
 - **Before** they infect the cell and...
 - inhibiting growth **After** the virus had infected the cell.
- These wavelengths of light were also demonstrated to signal activation of the innate immune response, for example by stimulating the release of the body's reserves of nitric oxide and increasing endogenous production of nitric oxide in barrier epithelial cells among other things.

How does the body use nitric oxide to protect against viral, bacterial, and fungal infection?

Nitric oxide (NO) is part of our body's natural immune system. It is vital to our innate immune response by helping to disrupt infection, inhibit viral reproduction and summon the body's immune cells to contain, attack and destroy viral invaders.

How does the light boost nitric oxide?

Directing precise wavelengths of safe, non-coherent visible light through the mouth and on to the pharynx, bathing these areas with light that stimulates the body's innate immune system. This process also causes cells to release the body's natural reserves of nitric oxide - by helping to disrupt infection, inhibit viral reproduction and summon the body's immune cells to contain, attack and destroy viral invaders - and upregulates the body to produce more.

How do I know this really works?

In a Phase I/II clinical trial, EmitBio achieved a 99.9% reduction in mean viral load of SARS-CoV-2, the virus that causes COVID-19, and accelerated symptom resolution in patients by more than 48 hours compared to the control group. This transformational treatment used a device that directed precise wavelengths of safe, visible, highly targeted light to the oropharynx (back of the throat) and surrounding tissues with no serious adverse events reported. The device has been designed as an at-home treatment for COVID-19 in adult patients with positive results of direct SARS-CoV-2 viral testing.

How long did the therapy take?

In a clinical trial, the EmitBio device* used twice daily, 5 minutes per session, in a home use environment as a treatment for mild-to-moderate COVID-19 substantially reduces viral load resulting in greatly reduced secondary community transmission of SARS-CoV-2 and a faster time to symptom resolution.

**The EmitBio device is investigational and not currently available for sale.*

I have heard there are different mutations of the COVID-19 virus. Does it work equally on all mutations?

The EmitBio treatment is potentially mutation resilient. The treatment is not designed to be dependent on SARS-CoV-2 genetics or configuration of spike protein leading to utility as a treatment for current mutations and/or future genetic drift.

Can children use this device?

The device was designed specifically for use in adults and is not recommended for pediatric use.

Is it safe?

There were no local reactions [oropharyngeal – “back of throat”] or treatment related adverse events attributed to the use of the EmitBio device in the clinical trial and twice daily dosing for up to two weeks was well tolerated in a separate study with healthy volunteers.

Does it use UV rays to kill germs?

No. This therapy uses Visible Light not UV. The emission spectrum of the light used by the EmitBio RD19 is in the range of visible light. Less than 0.009 of the total spectral power is in the UVA range. There are NO MEASURABLE EMISSIONS in either of the dangerous UVB or UVC regions of the spectrum.