Covid treatment Hydrogen Peroxide per Dr Brownstein and Dr Mercola

Story at-a-glance

- Hydrogen peroxide sits inside and outside cells of your cells in low levels, ready and waiting to be generated in greater amounts as soon as a pathogen is detected by your immune system
- Nebulizing hydrogen peroxide into your sinuses, throat and lungs is a simple, straightforward way to augment your body's natural expression of hydrogen peroxide to combat infections
- In addition to having direct viricidal effects, iodine improves white blood cell function and thyroid hormone production. This provides a metabolic boost to white blood cells to increase hydrogen peroxide antimicrobial properties which is one way your immune system works to kill pathogens
- Vitamin C also increases hydrogen peroxide production when used at high doses, while vitamin A helps modulate your immune system
- Buy a desktop nebulizer and stock food-grade hydrogen peroxide, Lugol's iodine and some saline. That way, you have everything you need and can begin treatment at home at the first signs of a respiratory infection

How to Do Nebulized Hydrogen Peroxide — The Basics

Nebulized hydrogen peroxide is extremely safe. Brownstein has used it for 25 years with no ill effects being found. It's also incredibly inexpensive, and you can administer it at home, without a prescription. In my view, it is one of the absolute best therapies for viral infections like SARS-CoV-2 or even worse respiratory viruses that will likely be unleashed in the future.

You need to buy a desktop nebulizer (it needs to produce a very fine mist and desktop versions are stronger than handheld battery operated models). The one I use is the Pari Trek S Compressor Aerosol System, which is available on Amazon or less expensively on eBay. The large battery option is unnecessary as you can simply plug in the device to run it when you need it.

Please understand, though, that the Pari Trek S is designed to treat asthmatics and as such only comes with a mouthpiece. While this would get the peroxide in the lungs where it is needed, it does nothing to reach the sinuses, which are also likely infected. This is why it would be worth pick up some face masks on Amazon to use instead of the mouthpiece as they are only about \$10.

It is important to acquire this BEFORE you need it, as the sooner you treat the infection the better your results will be, although the testimonials are unbelievably impressive even in late stage illness. It is not necessary to treat yourself preventively, but only if you are sick or exposed to someone who is.

While I've been using a 0.1% dilution, Brownstein uses an even lower concentration of just 0.04%. Neither Brownstein nor I recommend using commercial 3% hydrogen peroxide found in most grocery stores, however, as it has potentially toxic chemical stabilizers in it. (Check the ingredients, your brand may just be hydrogen peroxide and water. That would be okay to use.) Then take 3-5 ml and put that into the nebulizer and inhale the entire amount. You can do this every hour when you are sick until you start to notice improvement and then back down to every 4-6 hours and continue until you are over the illness.

Since you are not using full strength 3% peroxide and diluting it by 30 to 50 times, it is unlikely the stabilizers will present a problem, but to be safe it is best to use FOOD-GRADE peroxide**. Also remember not to dilute it with plain water as the lack of electrolytes in the water can damage your lungs if you nebulize that. You will need to use saline or add a small amount of salt to the water to eliminate this risk.

Starting Peroxide Concentration	Hydrogen Peroxide	+	Water (Filtered)	=	Ending Peroxide Concentration
3%	1/4 tsp	+	7 1/4 tsp	=	.1%
12%	1/4 tsp	+	5 ounces	=	.1%
36%	1/4 tsp	+	15 ounces	=	.1%

Brownstein also dilutes the peroxide with sterile water and saline rather than distilled water. Using saline prevents the osmotic differential that can cause damage to lung cells. Brownstein dilutes the 35% food-grade peroxide as follows. When nebulizing, Brownstein also adds one drop of 5% Lugol's solution to the nebulizer as well.

- Dilute 35% food-grade peroxide down to 3% by mixing 1 part peroxide with 10 parts sterile water
- Take 3 cubic centimeters (CCs) of that 3% dilution and add it to a 250CC bag of normal saline. This brings it down to a .04% hydrogen peroxide concentration

**WARNING: If you are using FOOD-GRADE (12%-36%) hydrogen peroxide, it is caustic and can cause severe damage to your skin or mucous membranes. Make sure you have diluted it using the blue table above before administering.

Dr. David Brownstein, who has a clinic just outside of Detroit, has successfully treated over a hundred patients with what has become my favorite intervention for COVID-19 and other upper respiratory infections, namely nebulized hydrogen peroxide. He has published the results of his work in a study that you can <u>download</u> here.

Since I first wrote about it at the beginning of April 2020, I've received impressive testimonials of its effectiveness from friends and acquaintances who got severely ill and used it.

Brownstein is probably best known for his promotion of iodine and its supplementation. He was also an early adopter of vitamin D optimization and nebulized peroxide. He explains the background that led him to his current regimen:

"The history goes back about 28 years when I began practicing holistic medicine. Of course, we would see people with influenza and influenza-like illnesses every fall and winter, so I started searching for things that would help people's immune systems ...

We initially started using vitamin C and vitamin D. I started to check vitamin D levels in 1992. What I found was the vast majority of my patients, well over 90%, were deficient in vitamin D, and those who had more chronic issues and were sicker in general, they usually had lower levels of vitamin D ...

Then I came across vitamin A. I originally read the research on how vitamin A helped third world countries when they had measles infections and helped ... [patients] recover uneventfully if they had enough vitamin A, so I quickly added vitamin A to the regimen.

A few years later, I learned about iodine. Iodine has direct viricidal effects. It has immune system effects. It helps the white blood cells produce hydrogen peroxide to fight viral and bacterial infections, as well as thyroid effects. Iodine got added to the regimen, and so the original treatment of our patients was vitamins A, C, D and iodine at high doses for about four days.

What we found was our patients did not develop pneumonia, did not get hospitalized, did not die from flu and other influenza-like illnesses at anywhere near the rates that they should have when you looked at the published rates of problems with these illnesses."

Zinc (prevents, improves) (per Dr Levy)

Once coronavirus successfully infects a host cell, the growth, or replication, of that virus is dependent on an enzyme known as RNA polymerase. 87,88 Zinc has been documented to inhibit this enzyme. It has been shown in cell culture that increasing intracellular zinc levels impairs viral replication. 89-90 When the activity of this enzyme can be sufficiently inhibited, viral growth

is effectively stopped, and natural immune mechanisms are then able to proceed with eliminating the infection.

Zinc deficiencies are extremely common, especially in the older population. When the intracellular levels of ionic zinc can be sufficiently raised, viruses either stop replicating or are unable to take hold in the first place, making zinc supplementation important for both preventing and resolving viral infections. 91,92 Zinc has long been known to have significant antiviral proper170 RAPID VIRUS RECOVERY

ties. 93 It is a possibility worth considering that some of the younger individuals who had severe or even fatal COVID infections had significant zinc deficiencies increasing their susceptibility. Many individuals who are otherwise "healthy" have diets very limited in nutrition, particularly with regard to minerals and vitamins.

Due to their ionic nature, most forms of supplemental zinc have only a limited ability to reach the cytoplasm. Certain agents known as ionophores are able to complex with zinc and transport it across the cell membrane. Quercetin is one effective natural zinc ionophore, and both chloroquine and hydroxychloroquine are effective prescription ionophores. 94,95 Quercetin has been documented to have significant antiviral effect against Ebola virus. 96 As an inexpensive and natural nutrient supplement, supplementation of quercetin along with zinc would be a good practice.

(Dr Levy)

A much larger number of COVID patients and potential COVID patients were taking regular supplementation that included vitamin C, vitamin D, magnesium, and zinc several months into the pandemic. This could certainly account for the seemingly general decline in the clinical severity of COVID infections. Very many individuals toward the end of 2020 had positive COVID tests while having few symptoms or remaining symptom-free.

regular HP nebulization along with the supplementation of vitamin C, vitamin D, magnesium chloride, and quercetin will further that protection. Additional therapy can always be taken at the first sign of any breakthrough symptoms of infection, or when a COVID test is positive.

HP Nebulization Protocol Chart (Per Dr Thomas

Levy) Can use over the counter Hydrogen peroxide 3% and use 2 parts HP to 1 part filtered water (that was boiled and then cooled and put in a canning jar with lid)

Feel free to copy this chart and place with your nebulizer. This is a rough guide only. Most individuals will eventually come to appreciate what routine or nebulization schedule best serves them. Normally, nebulizing HP for 2 to 5 minutes once a week should be sufficient. However, any loosening of the stool during a time of maintenance without regular nebulizations is often an indicator of a negative change in the microbiome. Whenever this is noticed, consideration should be given to resuming HP nebulization until normal bowel function is again seen.

Symptoms Frequency Duration

Early Onset of 3-4 times daily 10-15 minutes

respiratory symptoms

Possible Exposure (once as soon 2-3 minutes

as possible)

Loose stool after 3-4 times daily 10-15 minutes

period of normal stool

Maintenance once per week 2-5 minutes

(Levy)

Based on the information already presented, it is important to make sure any supplementation regimen includes vitamin C, vitamin D, magnesium chloride, and zinc. Along with these four supplements, it cannot really overemphasized as to the contribution that nebulized HP / Hydrogen Peroxide, can offer to prevent and/or cure not only COVID, but any respiratory viral syndrome, which includes all common colds and cases of influenza. Nebulizing for only a couple minutes per day can offer not only enormous protection against contracting respiratory viruses, it can also make an enormous contribution to normalizing the microbiome of the gut and drastically reducing all variety of gastrointestinal disorders afflicting so much of the population. And it has also been shown how normalizing the gut microbiome positively impacts all chronic diseases.

Hydrogen Peroxide and Ozone

While attending an oxidative medicine course, Brownstein learned about hydrogen peroxide. At that point, he and his staff started using nebulized hydrogen peroxide and intravenous (IV) hydrogen peroxide. That was back in the mid-1990s. So, he has been using nebulized peroxide clinically for 25 years now, which is longer than anyone I know of.

With each revision of his original protocol, patients seemed to fare better. Fast-forward another couple of years, at another medical course, he learned about the benefits of ozone.

"That was the latest addition to it. What we found over 28 years of using this therapy is that our patients did well. I never made a claim that this cured any influenza or influenza-like illness. What it does is it supports the immune system in multiple ways, and people get over it just like they've gotten over it for eons of time," Brownstein says.

"If we didn't get over these viral illnesses, we wouldn't survive as a human species, so it certainly makes sense we'd want a strong immune system in place when we get exposed to these pathogenic organisms.

When COVID-19 came around ... we were warned that we're going to have millions of deaths, and this is going to be the biggest medical catastrophe in our lifetimes ...

Everyone was on edge, and I had a meeting with my staff at the end of a work week. It was the last Thursday in February. And I told the staff that the first 28 years of our holistic practice was truly practice for this pandemic ... And I said, 'I think we've got this covered.'

I said, 'I can't guarantee anyone anything, but we've treated coronavirus in past years' ...

Coronavirus is known to be part of the influenza-like illnesses ... I don't see any reason why this wouldn't work for this illness as it has worked for the other viral/coronavirus illnesses that we've been treating."



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107 Patients — One Hospitalization, Zero Deaths

Brownstein and the other physicians in his practice first started treating COVID patients in the middle of a Detroit winter under full social distancing and lockdown restrictions. As a result, he had to treat patients who were ill in a drive-through manner in his clinic parking lot. They'd stick their arm out their car window, and Brownstein and his colleagues would do an IV of hydrogen peroxide and vitamin C and intramuscular shots of ozone.

"I vividly remember the snow coming down on my face mask as I'm shaking my head like a dog in order to clear my face shield, trying to put the IV in," he says. "At the end of the treatment, we would do ozone. We didn't want to do IV ozone outside because the elements weren't good, so we decided to do intramuscular ozone.

People who were sick, who couldn't breathe, we'd meet them in the parking lot. At the end of the IVs, we'd open their car door and have them stick their rear end out the car door. We'd put ozone in each [butt] cheek and send them on their way.

We got them hooked up on a nebulizer too, nebulizing hydrogen peroxide and iodine. After they started the therapies, usually after the first nebulized treatment, their airways would open up, and they could breathe again. We ended up treating 107 patients that I wrote about in the published, peer-reviewed [paper]. We had one hospitalization, no ventilators, no deaths."

The case report, "A Novel Approach to Treating COVID-19 Using Nutritional and Oxidative Therapies," was published in Science, Public Health Policy, and The Law in July 2020. For a couple of months, Brownstein would post video interviews with his patients, in which they told their story.

He removed all of them after receiving a warning letter from the Federal Trade Commission, saying that because there's no established prevention, treatment or cure for COVID-19, any mention thereof falls in violation of FTC law.

"In their first letter to me, they said, 'Because there's no human clinical studies documenting what you say works, you need to remove it.' So, after we published the [case review], my lawyer wife sent the FTC a letter saying, 'Here's a published study. We'd like to put my study on my website without comment.' And they said, 'No, it's not a randomized. We want a randomized controlled study.'

So, we felt like we had punched the ball into the end zone, and then they moved the goal post back 30 yards, but that's where we stand right now with it. And we're still treating patients with it. The study was on 107 patients. We've probably treated 10 more patients since then, still with good success.

I wrote in the article that the reason I didn't do a randomized study was it's unethical for me to withhold that treatment from people when I'm as certain as I can be that the therapy was going to work. There's no way I could sleep at night if I was randomizing people to get the therapy, and others to not get the therapy.

COVID was a new illness. We had never seen it. Nobody had ever seen it. There were no randomized studies. There's no reason to. Too many people were dying. We've already had over 100,000 deaths. It's just tragic, and it's really going to be a stain on medicine when the final autopsy is written on this."

Boosting Your Immune Function Is Imperative

Interestingly, as explained by Brownstein, in addition to having direct viricidal effects, iodine also stimulates and supports the immune system. It increases the killing effect of hydrogen peroxide production in your white blood cells by improving white blood cell and thyroid function, which is one way our immune system works to kill pathogens. Vitamin C directly

increases hydrogen peroxide production when used at high doses, he says, while vitamin A helps modulate your immune system.

"Perhaps instead of just relying on masks and social isolation, we should be talking about the immune system," Brownstein says. "How do we support it? And I'd like to throw out the question: Since when did talking about supporting the immune system become illegal? Since when do you have to be quiet about it?

Unfortunately, in this time and age, this is where we're at right now, and it's a sad time ... I've been writing a book on a holistic approach to viruses. And in this book ... I say that this illness is an example of what's wrong with our country.

The health of our country is in such decline, we finish last or nearly last in every single health indicator when compared to other Western countries, and this is why we've got hit so hard with this. And nobody talks about our health. All they're talking about is masks, social isolation and wait for a vaccine.

What about the next virus that comes around? What are they going to do about that one? And my comments on this warp speed vaccine to the world is, I hope it's safe and effective, but I don't think I'll be first in line getting this thing, not when it's bypassing all the safety studies ...

What I'd be first in line with is trying to figure out how I'm going to support my immune system, so when I'm confronted with these different viruses — because after this one, there's going to be the next one — you're not going to depend on another warp speed project. You're going to depend on yourself to get over these things. We can do it."

Sample Case History

Brownstein relates the case of a 67-year-old male patient. The man developed COVID-19 symptoms, and after seven or eight days could not breathe and went to the hospital where he was diagnosed with bilateral pneumonia. After two days of treatment, which included oxygen, he felt only slightly better, but was released from the hospital due to a shortage of beds.

"They sent him home on oxygen and told him, 'Only come back if you can't breathe.' So he goes home, and he calls me on the phone, crying, 'I'm going to die. They sent me home to die.'

I said to him, 'You're not going to die. Do you have a nebulizer?' And he said, 'No.' And I'm like, 'We need to start nebulizing right away ... Send your wife over. We'll put a nebulizer in the car and tell you how to do it.' So, we mixed up the solution for him, and she brought the nebulizer home.

I called him up at the end of the day. He had done three nebulizer treatments, and he said that after the second nebulizer treatment his lungs started to open up. He felt about 70% better and didn't feel like he was going to die at that point.

He was still coughing and short of breath, but not like he was. After the third treatment, he said he was even better ... So, this nebulizer thing really does work.

The one thing I'd like your readers to know, the handheld nebulizers don't work as well. I had a handful of patients who were using a handheld nebulizer and trying it with the same solution.

They were calling me back saying, 'It's not working.' When they got a desktop model, a little stronger model, it worked. So, I encourage people not to use a handheld nebulizer. Use a desktop model. It's a little bit stronger."

Nebulized Peroxide Typically Improves Symptoms Within Hours

This story echoes the experiences of personal acquaintances who have tried the treatment. After two treatments, they felt significantly better. After the third treatment, their breathing was restored and they were well on their way to a full recovery.

You'd be hard-pressed to find another treatment that works within hours. Brownstein agrees that this scenario is consistent with what he has encountered among his own patients.

"Usually, everything feels better within a couple of hours of starting nebulizing," he says. When asked about how others in the medical community have responded to his blog posts about the treatment, he replies:

"In the middle of the crisis as I was posting ... I started hearing from doctors all over the country, especially in New York and New Jersey. They were hospital physicians ... They didn't know what to do. The therapies weren't working.

No. 1, they want the therapy for their family, and No. 2, they want to help their patients. So, I was hearing from doctors. They were interested. I heard from a couple of local doctors who sent patients to us whom they couldn't help.

They had nothing to offer them ... and [those patients] got better ... It was really the first time I got a bunch of emails, messages and phone calls from doctors saying, 'Hey, tell me how it works. Tell me what you're doing.'"

Hydrogen Peroxide Facts

In my April 2020 article, "Could Hydrogen Peroxide Treat Coronavirus?" I reviewed some of the basic science of how hydrogen peroxide works, as well as some of the studies assessing its therapeutic potential.

The most relevant study² was published in March 2020 in the Journal of Hospital Infection. They studied 0.5% hydrogen peroxide, and found it killed human coronaviruses, including the

coronaviruses responsible for SARS and MERS. Here are a few additional facts that explain how and why hydrogen peroxide works so well for respiratory infections:

1. Hydrogen peroxide freely crosses cell membranes and does not readily oxidize biological molecules, including lipids and proteins.³ It does however react with iron. The presence of free, unbound iron in high concentrations in pathogens is what allows them to be selectively targeted by hydrogen peroxide.

High concentrations of iron result in a rapid breakdown of hydrogen peroxide into hydroxyl radicals and water. The hydroxyl radical, a potent oxidizing agent, kills any pathogens present. (Under normal, healthy circumstances, hydrogen peroxide merely breaks down into oxygen and water.)

- 2. Peroxide is generated by activated phagocytes (pathogen-killing immune cells) at sites of inflammation.⁴ Phagocytes also contain high amounts of ascorbate (vitamin C), which directly donate electrons to peroxide to generate the pathogen-killing hydroxyl radical inside the infected cells. Vitamin C also helps generate increased amounts of extracellular hydrogen peroxide, which further boosts the elimination of pathogens.⁵
- 3. Hydrogen peroxide is continually generated inside all cells in your body, including the epithelial lining of your lungs. (Hydrogen peroxide is present in the air exhaled by healthy human subjects, and when inflammation is present, more peroxide is found in the exhaled breath.) The presence of excreted peroxide on these surface cells in the airways is part of a healthy, at-the-ready immune response.
- 4. Aside from its anti-pathogen properties, hydrogen peroxide is also recognized as an important signaling molecule, both intracellular and extracellular, influencing and modulating multiple metabolic processes.⁸

In summary, hydrogen peroxide sits inside and outside your cells in low levels, ready and waiting to be generated in greater amounts as soon as a pathogen is detected by the immune system by NADPH Oxidase (NOX).

Its presence in your human body (at varying amounts depending on whether infection is present), and the lack of toxic metabolites, are indicative of its safety and nontoxic nature.

Similarly, as noted by Brownstein, hydrogen peroxide is extremely safe to use and nebulize at the diluted levels suggested. It's also effective. All pathogens studied to date have been found to succumb to hydrogen peroxide, albeit at varying concentrations and for different amounts of exposure.

So, nebulizing hydrogen peroxide into the sinuses, throat and lungs is a simple, straightforward way to augment your body's natural expression of hydrogen peroxide to combat infection.

"There are cheap and effective ways to treat patients suffering from [COVID-19], and we should be studying this. We should be allowed to report on it, and we should be allowed to study it. [If we were], we wouldn't have the travesty that's happened to our country." ~ Dr. Brownstein

While individual sensitivities to inhaled peroxide vary, even very low concentrations (below 3%) have been shown to reliably kill most pathogens. Through trial and error, Brownstein found 0.04% was the lowest concentration at which patients report significant improvement, which is why he recommends that level of dilution.

Summary of Treatment

To summarize, here's how I would treat myself or a family member:

- 1. At the very first signs of a respiratory infection, dilute food-grade hydrogen peroxide down to a 0.1% (my recommendation) or 0.04% solution (Dr. Brownstein's recommendation). If you want, you can add one drop of 5% Lugol's iodine solution, and nebulize using a desktop nebulizer.
- 2. Start taking quercetin and zinc, as an adjunctive therapy as soon as you know you have an infection, as the earlier you start the better. This treatment is likely ineffective late in the course of the illness as it works to inhibit viral replication. If the virus has already reproduced, it is too late and the horse is out of the barn.

The key is to have everything you need readily available. Have it in your possession before you need it. An ounce of prevention is worth a pound of cure, so procure the nebulizer, peroxide and iodine before you get ill.

If you're exposed to someone who is sick, you can use the nebulized peroxide as a prophylactic, but if you're healthy, it's not recommended to nebulize daily. For prevention, also make sure your vitamin D level is above 40 ng/mL.

In the later stages of disease, NAC may be really useful. The MATH+ protocol developed by Dr. Paul Marik uses methylprednisolone, vitamin C, thiamine (vitamin B1) and heparin. Heparin is administered because COVID-19 is a blood disorder too. There are clotting complications, and the heparin seems to improve that.

NAC also prevents platelet aggregation and abnormal blood clotting. It also reduces oxidative stress and increases glutathione levels, both of which play important roles in this disease. In my view, quercetin, zinc, glutathione, vitamin D and nebulized peroxide is a home run.

"There are cheap and effective ways to treat [COVID-19], and we should be studying this," Brownstein says. "We should be allowed to report on it, and we should be allowed to study it. [If we were], we wouldn't have the travesty that's happened to our country."

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