

NOVEMBER 2021 UPDATE

# Immune Support and Virus Protection Recommendations



Your Partners in  
**Integrative Healthcare**  
for Over 30 Years



# Stay resilient: Reduce risk, boost immune defense and repair abilities. Stay protected even if exposed.

**Enhancing your immune system competence** reduces risks associated with RNA Coronavirus (COVID-19), or any viral, bacterial, parasite, prion or other pathogen. There is much nature offers to reduce risks and avoid infections. Exposure is widespread; illness is not. For each symptomatic individual, there are 5-10+ people whose immune defense and repair systems recognize the virus and neutralize it effectively without symptoms. Reduce your risk of infection and of cytokine storm as well as ‘Long COVID.’ **Use the self-tests, predictive biomarkers and functional choices described here to evoke healing and protective responses.**

**Host hospitality** is what makes some people greatly more or less at risk. Common questions and functional responses follow below after risk reduction recommendations. The recommendations provided in this article are known to boost your immune defense and repair system and reduce infection risks if you are exposed—making you more resilient and “inhospitable.”

A “hospitable host” is one in whom conditions are right for a pathogen to take up residence due to **essential deficits of required nutrients and excess of anti-nutrient toxins.**

Conversely, a **healthier “inhospitable host”** is one in whom a foreign pathogen is unable to infect because of protective surface (mucosal) immunity and innate immune responses designed to engulf and recycle anything foreign that gets past the mucosal surface.

Co-morbidities, underlying issues, and known risk factors have complicated matters in catastrophic cases... [at least 94+% of all severely affected people.](#)

Those who have hemoglobin A1c>5% increase their susceptibility to COVID-19 infection, as opposed to those who keep their blood sugar at healthy levels. When all predictive biomarkers are at their best outcome goal values, **RNA viruses do not pose the same risk**—surface (mucosal) and innate immune response mechanisms can prevent the infection itself and the ability of the person to infect others.

People with prior lung pathology from air pollution and/or smoking tobacco/vaping, and people taking certain medicines for heart disease are also at risk. Ask my team about [helpful self-assessments and predictive biomarker tests](#) to determine your risk potential.



While medical conditions abound in older people, birth age is *not* important; *functional* age is important. The elderly are *only* more at risk to the extent they have *co-morbidities*. The same risk factors affect too many younger individuals as well.

For those concerned about co-infections and lung surfaces that are more hospitable to viral 'docking,' the same comorbidities are found. The comments here are the best defense and repair enhancements we know to successfully adapt to this global health challenge.

Intensive bioavailable antioxidant, mineral, and essential cofactor supplementation has generated multiple anecdotal or early observational scientific reports strongly suggesting their value, particularly when nature's nutrients are used and *not* synthetic work-alikes that too often do not work.

Helpful and essential nutrient recommendations follow. Essential means we must take them in since our body is unable to make them. This personalized approach guides each individual to determine what their strengths and risk are, as well as what to do to reduce risks and celebrate resilient strengths.

## Ascorbate Depletion and COVID Risks

Acute depletion of antioxidants, especially vitamin E and ascorbate, is being increasingly recognized as a hallmark of COVID-19 infection. Almost 75-80% of severe cases have shown deficits in vitamin C leading to increased [oxidative stress](#).

The devastating consequences of COVID-19 infection can all be explained as multiple expressions of acute vitamin C depletion. Vitamin C deficiency affects the working of the lung (acute respiratory distress syndrome), heart and associated blood clotting mechanisms. Low levels of vitamin C can cause early red cell destruction due to iron or other mineral oxidation and damage to tiny blood vessels.

Multiple reports suggest benefit in people at risk when [adequate ascorbate is taken based on their oxidative \(anti-nutrient\) burden](#). Nature's fully buffered, fully reduced l-ascorbate is therefore necessary and highly [recommended](#).

## Vitamin D Deficit and COVID Risks

This essential **neurohormone** helps regulate cell division and is important in many systems designed to renew the body, particularly when combined with vitamin K2. In addition, drops under the tongue provide easy and predictable uptake of vitamin D. Going to brain before body is also helpful. Best health outcomes come to those with vitamin D levels of 50-80 ng/ml.

## Zinc/Magnesium Need and COVID Risks

From taste and smell to immune and neurohormone balance, zinc and magnesium are essential yet often deficient. Considering its role as an antiviral, [zinc supplementation](#) can be beneficial for most of the population, especially older people and those who are at risk of COVID-19 infection. People at greater risk also show signs of cell metabolic acidosis. Cellular dysfunction states (as discussed above in the Ascorbate section) occur especially when ascorbate and magnesium (with choline citrate) needs are unmet. Urine pH after rest is one of the best ways to monitor if enough buffering minerals, especially magnesium, are present to neutralize the day's excess stress and metabolic acids.

Several of the recommendations here, especially [quercetin dihydrate](#), function as safer, more effective zinc ionophores — nature's way to facilitate necessary cellular uptake of zinc and other helpful minerals. See items 2, 4 and 5 in the supplement suggestions below. A more comprehensive list of needed supplements is detailed below.


We become what we...

# EAT *drink* *think* DO!

At its core, sustained health is about what people **EAT, DRINK, THINK** and **DO**. You can take action today to boost your immune defense and repair system, improve tolerance and reduce excess immune activity while reducing infection intensity if exposed.

There are benefits from each and synergy of benefits from all of the following:

## EAT

- Eat a diet that is easier to digest, assimilate and eliminate without immune burden. This means eating organic or biodynamic ripe fruits, vegetables, grasses (while avoiding grains), nuts, seeds, sprouts, sea vegetables, herbs, edible flowers, and spices. Metabolic and nutritional balance is reflected in a urine pH between 6.5-7.5 after six or more hours of rest. Resources at the end of this article provide additional information.
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- Enhance healthier methylation to improve biological detoxification by making dietary staples from garlic, ginger, onions, brassica sprouts and eggs (the sulfur rich foods sometimes referred to as [GGOBE](#)). Methylation is important for proper translation of genetic code, cell detoxification, and for proper cell protein synthesis. Methylation status can be measured with proper plasma homocysteine and a healthy methionine to homocysteine ratio is suggested.



- Avoid processed foods, at least because they have too much processed fat, salt, and sugar.
- Current best guidance suggests avoiding NSAIDs, particularly [ibuprofen](#) and acetaminophen. Fever can sometimes be a helpful change in temperature to activate immune defense and repair mechanisms. We recommend nature's ascorbate with safer polyphenolics, adequate magnesium and choline citrate, sufficient B complex to keep urine sunshine yellow and enough Omega 3 fats to achieve an Omega 3 Index of >8%.

## DRINK

- Stay well **hydrated** – Drink plenty of water, broths (except bone broth) and soups as well as herbal beverages, at least 1 gallon per day. Keep a glass and a carafe of water on your desk. When the glass is full, drink it; when it is empty, fill the glass and repeat.
- Start each meal with something warm, wet and savory, like any broth (except bone broth) and/or lime water.



## THINK

- Anxiety and fear reduce and repress immune defense and repair ability. Knowledge and experience improve immune defense and repair ability, neurohormonal balance and quality of life.
- Use art, music or [relaxation response](#) practices to help calm and restore your mental equilibrium. For example, [Joan Kellogg's Mandala technique](#) or [Helen Bonny's Music suggestions](#) allow us to be in the moment as the mandala is created; in the moment as the music carries us to deeper self-awareness. Relaxation response training has been scientifically confirmed to promote well-being and reduce distress, anxiety and fear.
- Consider Ira Progoff's intensive journal ([Intensive Journal, Dialogue House](#)) or do Quaker peer co-counseling or read inspirational writings ([Ariel Press, Books of Light](#)) and watch uplifting videos.
- Learned Optimism by Seligman has helped many improve their inner outlook.

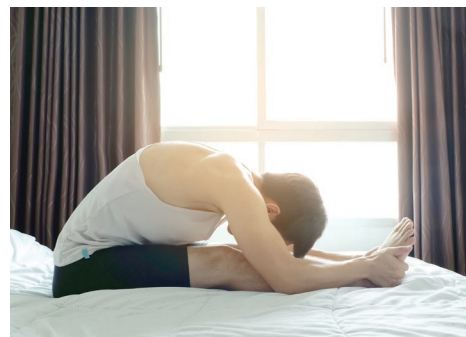
## DO

- Consider LRA by **ELISA/ACT**® testing to identify your personal immune system burdens. The LRA (lymphocyte response assay) by **ELISA/ACT**® tests your personal immune response to up to 500+ common foods, colors, preservatives, environmental toxins and medications. When you identify and substitute for dietary immune burdens, you make your immune system better able to fully function for both protection and repair.
- Keep your 1st morning [Urine pH after rest](#) between 6.5 and 7.5. Excess acid in cells prevents healthy cell activity. While known as metabolic acidosis in clinical pathology, it is really magnesium cell deficit in physiology. See item 2 in the essential supplements section below.

Urine >6° rest		
<p>Excess acid wears you out</p> <p>Too Acidic (&lt;6.5)</p>	<p>Healthy Repair / Restore Zone</p> <p>Healthy pH (6.5-7.5)</p>	<p>Catabolic illness tears you down</p> <p>Too Alkaline (&gt;7.5)</p>
<p>Predictive Goal Value = pH 6.5 – 7.5</p>		

- Get enough quality, **restorative sleep** and improve mood by following a sleep preparation plan. Prepare for sleep about 30 minutes before bed by taking a salt and soda bath (1 cup Epsom Salt & 1 cup baking soda in a warm bathtub) while practicing abdominal breathing and a relaxation response or active meditation, for example, [www.activemeditation.org](http://www.activemeditation.org).
- **Stretch regularly.** For me this includes stretching in bed before sleep, before getting out of bed on waking and in the shower. Stretching helps renew body infrastructure and helps reverse gravity's tendency to contract while improving sleep quality. Trager mentastics, hatha prana yoga and Tai chi chuan are examples.

For many, enhanced uptake of [Tryptophan](#), nature's safer source of serotonin and melatonin, is helpful to enhance restorative sleep.



- Amble while walking; consider forest bathing; walk barefoot when on healthy ground.
- **Frequent hand washing** and **social distancing** are recommended to decrease exposure. **Skin nourishment** is essential since frequent hand washing can dry out the skin, making skin hospitable to infection. We suggest applying organic sesame oil or your favorite skin 'butter' such as [Weleda's biodynamic 'skin food'](#) to support healthy skin integrity.
- **Consider improving the air quality in your home or office with a room ionizer** e.g., [Molekule.com](#) or [Bionaire.com](#). In the 21<sup>st</sup> century, a healthy diet and lifestyle is no longer sufficient to optimize your immune and neurohormone functioning. Being proactive about the air in your home, school or office is timely.
- **Self-assessment**, four personal tests are good places to start on a journey to healthier life. Eight **Predictive biomarkers** cover epigenetics and are available and especially helpful when interpreted to best outcome goal values.
- Upon returning home, change from "outside" clothes and shoes to "indoor" clothes. This simple habit can greatly reduce the toxins you bring into your home.
- **Dietary supplementation** is essential today and in the 21<sup>st</sup> century to enhance repair and immune responses, neurohormonal balance, stress resilience and healthy digestion.





# Targeted Supplementation with PERQUE®

My team has developed the **PERQUE®** brand of novel, professional, synergistically beneficial, scientifically researched and validated quality formulations to meet today's needs. Simply said, **PERQUE** provides the most advanced, full disclosure, novel, all active, more bioavailable, safer forms of nature's nutrients combined for multiple benefits.

**Suggestions below provide meaningful amounts of safer essential nutrients:**



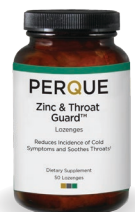
1. Take sufficient L-ascorbate (based on your C cleanse/calibration results). L- ascorbate is an excellent antioxidant and a potent natural anti-viral, but only when it is 100% L-ascorbate, fully reduced and buffered as you find in **PERQUE Potent C Guard™** [powder](#) or [tabsule](#).



2. [PERQUE Mg Plus Guard™](#) and [PERQUE Choline Citrate™](#) taken together are a proven system for improving the amount of magnesium your body can absorb and use. Take 2 capsules + 1 teaspoon twice or more daily to maintain first AM urine pH 6.5 - 7.5.



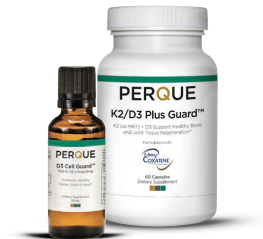
3. [PERQUE Life Guard™ Mini](#) tabsules, 2-4/day (enough to keep your well hydrated urine sunshine yellow). This super-multi-vitamin/mineral provides a solid foundation of nutrients necessary for resilient health.



4. [PERQUE Zinc & Throat Guard™ Lozenges](#), 1-3 lozenges/day or as needed. These fully soluble, synergistic nutrients help fight infection and provide maximum immune support.



5. **PERQUE Repair Guard™** / **PERQUE Pain Guard™ Forté**, 4-12 tabsules/day. This potent flavonoid/flavonol polyphenolic combination of quercetin dihydrate and soluble OPC works synergistically with L-ascorbate to activate first line cells responsible for protection and repair.



6. **PERQUE K2/D3 Plus Guard™**, 1 capsule/day and/or **PERQUE D3 Cell Guard™**, 5-10 drops/day or sufficient to keep your D3 levels within the best outcome goal range of 50-80 ng/ml. Maintaining an adequate level of D3 supports a healthy immune system with enhanced viral protection especially from respiratory and intestinal infections. Sunlight activates vitamin D, but *only* when the precursor (cholecalciferol) is already present in lymphatic blood and blood stream. Sunlight does enable memory T cells and other defense and repair systems.



7. **PERQUE Liva Guard Forté™**, 1-2 softgels daily provides much needed liver detox support with milk thistle and additional antioxidant nutrients. Additionally, it is a good source of vitamin D. Daily vitamin D intake should be enough to maintain healthy blood vitamin D (25-OH-D) levels of 50-80 ng/ml. *Do take into consideration your total vitamin D intake if taking other Vitamin D supplements.*





# Your Questions Answered

## Does vaccination protect people from infecting others?

**Vaccination starts a process the goal of which is to have circulating white blood cells known as T cells to neutralize a specific foreign invader such as COVID-19, no matter the subtype.** This process typically takes two to six weeks. During that time, an infected person can still infect others, until the immune defense and repair system 'learns' how to prevent further infections, after the vaccine is successful in mounting a memory immune response. Regardless, following suggestions in this guide reduces risks and improves outcomes.

## What about natural immunity?

Those who have recovered from COVID-19 have a [strong protective immunity](#), and this can shield them from repeat infection, disease, hospitalization, and even death. This protection is like, or perhaps better than vaccine-induced immunity. Natural immunity can be determined by an accurate and reliable antibody test or the documentation of prior infection but data suggests that while antibody titers [can decrease](#), those with T cell protective immunity (as detected by a T cell test) can have possibly [lifelong protection](#).

It is important to support the innate and adaptive immune systems so they can respond maximally when faced with the virus.

## What about Long COVID and Post COVID... what are these conditions and what to do?

**'Long COVID', 'Post COVID', chronic fatigue immune dysfunction syndrome (CFIDS) and 'adult failure to thrive' are each so similar that they may be different names for a common condition where enough essential nutrient deficits persist and anti-nutrient toxins remain after recovery from acute illness.** Reports suggest that a third to two thirds of people who recover from COVID have persisting impairments and afflictions. **People symptomatic from COVID infection are often further depleted in ascorbate, CoQ10 and other antioxidants, buffering minerals like magnesium and zinc as well as essential cofactors, and require intensive supplementation for at least three months after recovery to rebuild these essential nutrient needs.** The above suggestions can help rebuild and restore health to those who have gone through "long" or "post COVID" **and are even more important after recovery to reduce any future acquired infections.** Regular abdominal breathing, stretching and walking are also integral to the healing journey from COVID-19 or other infections.

## What about adjuvants in vaccines?

**An adjuvant is needed for a vaccine to be effective. The adjuvant paralyzes the innate immune defense and repair system for weeks after vaccination in order for the delayed immune vaccine induced response to happen.**

In the past, mercury and aluminum were used as adjuvants. Newer vaccines use excipients that, when combined, become the needed adjuvant so that the vaccine can be effective. Unfortunately, there are costs to paralyzing the innate immune system, especially in people who are metabolically in survival mode rather than the preferred elective protective mode. Testing for delayed immune hypersensitivity to adjuvants in the COVID 19 vaccines is now available through **ELISA/ACT®** Biotechnologies.

## What about Ivermectin?

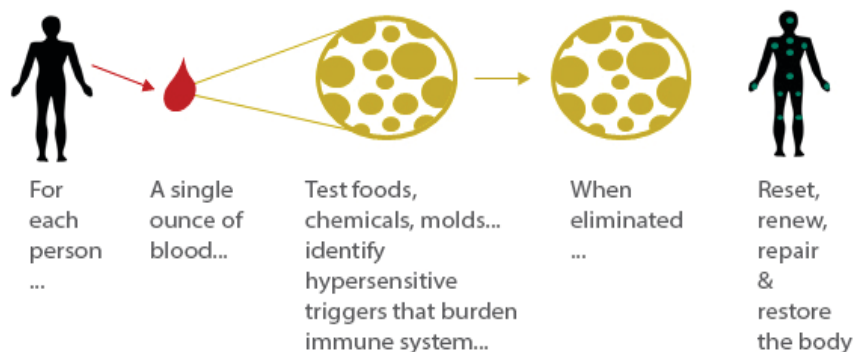
This is an anti-parasitic medicine that paralyzes parasite nervous systems and kills the parasite. While used primarily as a veterinarian medicine, Ivermectin was approved as an [anti parasitic for humans](#) in 1996. However, large doses, unhealthy inactive ingredients, unwanted side-effects, and drug interactions make this medication a risky proposition as a treatment strategy for COVID-19. It is also now clear that too many people have fragile blood-brain barriers, making them even more susceptible to this drug's toxicity. FDA has not authorized ivermectin for COVID-19 treatment in humans or animals at this time.

## What about hydroxychloroquine and remdesivir?

Hydroxychloroquine works by increasing cell zinc and magnesium that, in turn, reduce viral replication. Experienced clinicians have long reported [multiple adverse effects](#) from hydroxychloroquine especially in the higher dosages that were used. In a recent study in Brazil, the low dose was ineffective, and the high dose caused too many heart problems to continue the study.

Hydroxychloroquine is immune suppressive, interferes with the communication of immune cells and is used when the immune system is attacking the body. Its role though is unclear. Safer zinc ionophores are quercetin dihydrate and soluble OPC ± ellagic acid.

Remdesivir is the first (and only) drug to be approved by FDA for COVID 19 and works by preventing the virus from replicating. It's use though comes with conflicted results. Early research showed promise in severe cases while more recent [studies](#) show that routine use of the drug neither decreased length of hospital stay nor improved survival. Its cost and side effects add to the burden. The antioxidants and other nutrients highlighted in this protocol are recommended for immune support. In addition, **LRA tests** allow personalized assessments of immune tolerance and intolerance. This includes helpful recommendations to restore healthy internal balance in both the digestive microbiome and the metabolic metabolome.



## What about cytokine storm?

Many COVID-19 complications may be caused by a condition known as cytokine release syndrome or a cytokine storm. This is when an infection triggers your immune system to flood your bloodstream with inflammatory proteins called cytokines. They can kill tissues and damage your organs. When your immune system is burdened, further foreign invasion can cause over-stimulation of pro-inflammatory cytokines. People with repair deficit (inflammation) and/or self-attacking chronic illness (autoimmune conditions) are particularly in need of the tolerance and resilience enhancing guidance in this protocol which avoids the risk of a [cytokine storm syndrome](#).

Cytokines are primarily Omega 6 fat-derived amplification molecules. Hence, more active Omega 3 (EPA and DHA) and less Omega 6 (Arachidonate and Alpha-Linoleate) in the diet reduces risk. Processed foods, meats, and chips are Omega 6 rich and often contain anti-nutrients that further deplete essential nutrients, increase risk and are best avoided.

When your immune system is supported with sufficient essential nutrients to prevent harm from the oxidative anti-nutrients, tolerance is restored. This means homeostasis, the self-regulation of a healthy immune defense and repair system when rehabilitated, is always there to help you. People who follow LRA immune enhancing recommendations are correcting their essential nutrient and metabolic needs and will not be susceptible to cytokine storm, even in those with the known co-morbidity risk factors.

## What about glyphosate?

Glyphosate is an herbicide with neurotoxic and hormone [endocrine disrupting properties](#) just like the many persisting organic pollutants (POPs) in use today. POPs deplete essential minerals like magnesium and zinc as well as antioxidants such as ascorbate. The toxicity of glyphosate has been grossly underestimated by many and it qualifies as an anti-nutrient. This, among other reasons, is why we recommend non-GMO, non-glyphosate foods.

## What about co-infection?

When people become hospitable to viruses, they are also often susceptible to other infections. Increasing evidence confirms that enough healthy prebiotic fiber, probiotic digestive organisms, and symbiotic recycled glutamine crowd out pathogens and promote host resistance to infections.

Antibiotics are available but we suggest [prebiotics, probiotics, and symbiotics](#) before antibiotics. When antibiotics are given, it typically takes months to restore healthy digestion and metabolism.

## What about Mycobacterium avium and trans-species zoonoses?

COVID-19 seems to have a symptom and immune susceptibility profile similar to pulmonary infections caused by [Mycobacterium Avium Complex \(MAC\)](#), known to be common in commercial pig and beef herds. Strengthening the immune system is key. Adding nutritionally dense foods, hydration, and essential supplements along with environmental management are effective to reverse this host hospitality.

## What about nature's melatonin?

Melatonin is a powerful antioxidant and plays an [anti-inflammatory role in respiratory conditions](#). Healthy physiology restricts melatonin production and its local use for short times to where and as needed. Our experience is that physiologic consumption of **enhanced uptake tryptophan** can be converted when and where needed into serotonin and melatonin.

## What about variants?

The T and B cells (lymphocytes) are the body's key immune cells. The helper T cells recognize infected cells and stimulate B cells to make antibodies to fight the virus. B and T cells are among the fastest replicating cells in the body, and multiply for several days to produce enough to neutralize an infection. Now more than ever, it is imperative that we make sure that these immune fighting cells of the body are primed to do their job. The "delta variant"— named a "variant of concern"— replicates super-fast and for those whose immune systems are not ready and robust, they are and will be playing catch up all the time.

Initial protection offered by vaccines is showing signs of waning, and breakthrough cases are also on the rise. Some other variants have been identified e.g., Lambda and Mu — called "variants of interest"— these have fortunately not caused the devastation like that of the Delta variant. Nevertheless, the nutrient and lifestyle suggestions in the **PERQUE** immune support and virus protection recommendations can offer the much-needed defense we all require at this time.

## What does this mean for children going back to school?

Schools are going back in person in most areas in the country and where the immune protection has been low to non-existent, it has wreaked havoc and chaos with many children getting sick and hospitalized. The Eat and Drink suggestions here can be tailored to children easily and **PERQUE** offers kid friendly versions of many of the supplement suggestions as well. Following this set of guidelines along with taking precautions such as masking, distancing and testing as needed is recommended for a safe return to school.

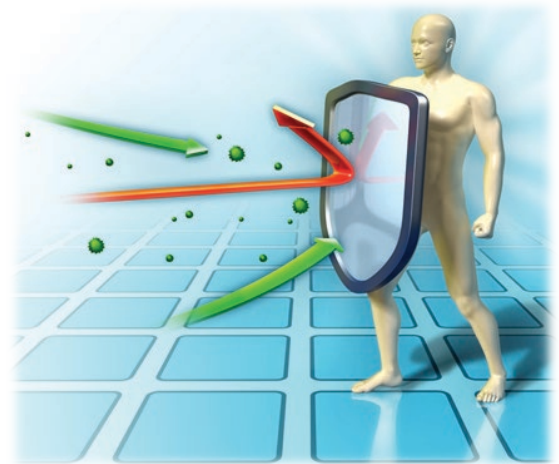


# Strengthen host defense and repair to live well and avoid viral afflictions.

As we have reviewed here, the best approach to staying healthy as COVID19 exposure spreads is to be an inhospitable host for the virus. Now is the time to ensure sufficient antioxidant intake – especially 100% L-Ascorbate. Restore immune tolerance and balance neurohormones.

Follow a physiology before pharmacology lifestyle, guided by the four self-assessments and eight predictive epigenetic biomarker tests interpreted to best outcome goal values. Commit to eating what you can digest, assimilate, and eliminate without immune burden.

This brings us full circle for now. Strengthening host defenses and reducing risks are a choice. If not now, when is the time to invest in your health and well-being?



## RESOURCES

To find a healthcare practitioner who offers the **LRA by ELISA/ACT** tests, email [ClientServices@ELISAAC.com](mailto:ClientServices@ELISAAC.com) or call 800.553.5472.

To order LRA tests and interpretations directly, visit [BetterLabTestsNow.com](http://BetterLabTestsNow.com). Safer, more convenient home blood draw options are available.

To find an Authorized Distributor of **PERQUE**, call **800-525-7372** or email [ClientServices@PERQUE.com](mailto:ClientServices@PERQUE.com).

More information is available from:

- [DrRussellJaffe.com](http://DrRussellJaffe.com)
- [Dr Russell Jaffe on YouTube](#)
- [ELISAAC.com](http://ELISAAC.com)
- [PERQUE.com](http://PERQUE.com)
- [HealthStudiesCollegium.org](http://HealthStudiesCollegium.org)
- [A Users Guide to Vitamin C](#)
- [Your Viral Risk Reduction Plan](#)
- [The Joy of Living the Alkaline Way](#)
- [PIH Coronavirus Resource Center](#)



# About PERQUE Integrative Health™

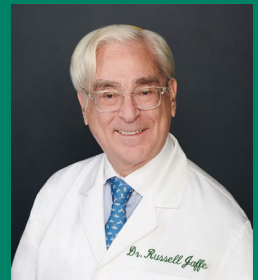
**PERQUE Integrative Health** (PIH) is dedicated to speeding the transition from sickness care to healthful caring. Combining the innovations of **PERQUE®** and **ELISA/ACT® Biotechnologies**, two leading companies with 30+ years' experience in delivering novel, personalized health solutions, PIH gives you and your patients the tools to achieve sustained optimal wellness.

**PERQUE** offers a complete line of 100% bioavailable, active, novel supplements featuring full disclosure labels so you know EXACTLY what is in each product. You can feel the **PERQUE** difference.

**ELISA/ACT Biotechnologies** is the exclusive provider of the high sensitivity lymphocyte response assay (hsLRA), the gold standard in delayed hypersensitivity testing. By looking directly at lymphocytes, the hsLRA detects **all 3 types** of delayed food and chemical hypersensitivities to over 500 items.

Combining advanced functional, evidence-based tests with premium professional supplements and healthful lifestyle guides, PIH solutions have deliver successful outcomes in even the most challenging situations by evoking healing responses.

*Dr. Russell M. Jaffe, CEO and Chairman of PIH, is one of the pioneers of integrative and regenerative medicine. Since inventing the world's first single step amplified (ELISA) procedure in 1984, a process for measuring and monitoring all delayed allergies, Dr. Jaffe has continually sought new ways to help speed the transition from our current healthcare system's symptom-reactive model to a more functionally integrated, effective and compassionate system. PIH is the outcome of years of Dr. Jaffe's scientific research. It brings to market three decades of rethinking safer more effective, novel and proprietary dietary supplements, supplement delivery systems, diagnostic testing, and validation studies.*



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