Do you want to start fasting today? Yes, Where To Order? No, I Feel Fantastic

Medically reviewed by Dr. Vincent Fuscio

You May Need a Vagus Nerve Reset. Here's How to Do It

Written by Dr. Michael Fuscio, DC on July 31, 2023 — Reviewed by Dr. Vincent Fuscio

Understanding the Role of the Vagus Nerve *in a Number of Organ Systems and How It Impacts Your Health and Well-Being*

The Nuts and Bolts: What Is the Vagus Nerve?
The Parasympathetic Nervous System
What Is a Vagus Nerve Reset?
Improve Vagal Tone and Whole-Body Health
Heart Rate Variability
Electrical Vagus Nerve Stimulation
Reset Your Vagus Nerve with Self-Care First!

Key Takeaways:

- The vagus nerve is the longest nerve in the body and connects nearly every organ system to the brain stem and cortex.
- Vagus nerve dysfunction can lead to a number of mental and physical health problems, like lightheadedness, anxiety, digestive distress, and sleep issues.
- Healthy lifestyle choices like gentle exercise, meditation, and a nutrient-dense diet all can be considered forms of vagus nerve reset.
- Other holistic interventions include vagus nerve stimulation, massage, breathwork, and laughter.
- Heart rate variability (HRV) is the best way to indirectly measure vagal activity, also called vagal tone.
- Electrical vagus nerve stimulation (VNS) is the conventional approach to vagus nerve stimulation but is only FDA-approved for a small number of conditions, is invasive, and has a higher potential for side effects.

Your vagus nerve connects from the bottom of your brain stem to many of your internal organs (including your gut), and a growing body of research suggests that through vagus nerve stimulation (VNS), you may be able to improve a number of ailments and diseases. If you've been struggling with anxiety, IBS, mood, migraines, elevated heart rate, or slow digestion, it's possibly time for a vagus nerve reset.

Boosting vagal tone can also help a number of medical conditions such as epilepsy, high blood pressure, Parkinson's disease, rheumatoid arthritis, atherosclerosis, inflammatory bowel disease, diabetes, and cardiovascular disease, and prevent early mortality. [1]

A vagus nerve reset involves a set of interventions (diet, self-care, and even medical procedures) that can help improve vagal nerve function and tone.

Let's explore the existing research and dive into the possibilities of how a vagus nerve reset might lead to relief of various health challenges from gut, cardiovascular, metabolic, and mental health, and improve your overall well-being.

Elemental Heal
A fast and powerful "reset" for your gut.
Shop Now

There are several ice cube, ice barrier-to-entry treatments for a vagus nerve reset that are safe and effective for many conditions that are linked to vagus nerve dysfunction. Lifestyle interventions like gentle exercise, a nutrient-dense diet, and a meditation practice can go a long way in helping reset the vagus nerve.

Since electrical vagus nerve stimulation isn't realistic for most people, due to its limited use and higher potential for side effects, the natural, safe, and research-backed treatments I discuss here are probably a better place to start when treating your nervous system. They also take a more holistic approach as they can help heal many other body systems, not just the vagus nerve.

Let's explore the existing research and dive into the possibilities of how a vagus nerve reset might lead to relief of various health challenges from gut, cardiovascular, metabolic, and mental health, and improve your overall well-being.

The Nuts and Bolts: What Is the Vagus Nerve?

The vagus nerve (from we technically say — in the left side and right side of the body) is the 10th cranial nerve that originates from the lowest part of the brainstem (called the medulla oblongata). It runs deep in the neck and into the chest and abdominal cavities, connecting various organ systems — including the gastrointestinal system, heart, lungs, tongue, and pharynx — to the brainstem and cortex. It's the longest cranial nerve in the human body. [2, 3]

The literal translation of the word "vagus" means "wanderer," which reflects how wide and far-reaching this nerve is in the human body. It contains motor fibers (which control muscles) and sensory fibers (which relay information). The sensory fibers can detect pressure, pain, stretch, temperature, chemical, osmotic pressure, and inflammation in the organs. The motor fibers supply muscles of the pharynx and larynx that are vital for speech production and swallowing. [4]

If you've ever fainted or gotten access at the sight of blood, or intense injury or sudden pain, or other stressful stimuli, it was likely a vasovagal malfunction (vasovagal syncope). This is the most well-known type of vagal disturbance where blood pressure drops, temporarily reducing blood flow to the brain and resulting in a brief loss of consciousness (commonly known as "pass out"). [5]

However, there are many other ways in which long-term vagus nerve dysfunction can impact your health and well-being, often causing non-specific health symptoms to unexpectedly appear.

Vagus Nerve and The Parasympathetic Nervous System

The vagus nerve carries 75% of all parasympathetic nerve fibers in the body, making it the primary component of the parasympathetic nervous system (PNS), which is part of the autonomic nervous system (ANS). The other part of the ANS is the sympathetic nervous system (SNS), which governs the fight, flight, as well as most voluntary actions.

The PNS is responsible for maintaining the body systems that you aren't consciously deciding to operate. This includes: [6, 7]

- Organ systems (cardiovascular, respiratory, gastrointestinal, immune, and endocrine functions)
  - Heart rate
  - Respiratory rate
  - Dilation/constriction of vessels
  - Digestion
  - Urination
  - Involuntary muscle movements
  - Reflex actions such as coughing, sneezing, swallowing, and vomiting

Because of its widespread influence throughout the body, when the vagus nerve is underactive (dysfunctional), it can lead to a wide and diverse number of non-specific health systems. Low vagal tone doesn't necessarily mean that all of your body systems will go haywire, but there are some more and symptoms to look out for:

- Insomnia
- Migraines
- Anxiety
- Chronic pain
- Gas and bloating
- Gastroparesis
- Constipation
- High or low blood pressure
- Elevated and/or fluctuating heart rate

The primary neurotransmitter of the PNS is acetylcholine, which activates receptors throughout the body. The binding of acetylcholine to muscarinic receptors helps the vagus nerve/PNS carry out its primary functions [2, 3, 7]. Eating) as this level of physiological detail because there's a lot of nuance that's important part of your diet and is also a precursor to acetylcholine.

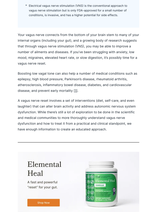
When you eat foods rich in choline (like eggs, meat, and nutritional yeast), you are helping give your body the raw materials it needs to support your nervous system. [8] It's especially important for vegetarians and vegans to make sure that they are getting enough choline among other important nutrients in their diet to support brain health.

This is why diet is a fundamental component of a vagus nerve reset, and why I prioritize nutrition in my practice — especially when the stress symptoms of dysfunction are present.

**Slight disclaimer: I'm about to dive into a discussion on the various therapies that could be employed for a vagus nerve reset. I want to highlight that in general, it appears that the evidence and holistic modalities that are known to be good for overall health are also good for improving vagal tone. Being overly focused on stimulating the vagus nerve may be unnecessary.*

This explanation is intended to focus on the vagus nerve in order to better understand the mechanisms behind how you might improve its function, especially if you've been experiencing symptoms or issues specific to a vasovagal malfunction or weakness.

What is a Vagus Nerve Reset?



Many studies have linked vascular, neurological, and cardiovascular/metabolic diseases to reduced vagal tone, and this has led to exploration into how stimulation of the vagus nerve can improve health. Vagus nerve stimulation is also referred to as vagus nerve therapy or, more loosely, a vagus nerve reset. [9]

The goal of a vagus nerve reset is to get the two parts of the autonomic nervous system (parasympathetic and sympathetic) back into balance, thereby helping to heal symptoms of nervous system dysfunction.

Any technique that stimulates the vagus nerve, including manual or electrical stimulation, constitutes a form of vagus nerve stimulation (VNS). However, there are other ways to reset the nerve that doesn't involve direct stimulation and are likely a much more effective place to start.

Holistic Forms of Vagus Nerve Stimulation

This is the list of interventions that include healthy lifestyle habits that we know are good for your overall health generally. However, there are also additional interventions in this category that are geared specifically toward improving vagal tone.

While these interventions do have some scientific support, more research is needed in this area to further understand the use of these therapies from a practical, clinical standpoint. They include: [9]

- Slow breathing exercises
- Chanting
- Music therapy (singing, listening, learning, and performing music)
- Practicing loving-kindness meditation
- Mindfulness meditation
- Practicing forgiveness
- Laughter
- Aerobic exercise
- Stretching
- Resistance training
- Yoga
- Increased consumption of omega-3 fatty acids
- Fasting
- Massage
- Cold water facial immersion
- Sleeping on the right side

Thankfully, we don't always need to wait for the research to catch up with clinical practice, as these therapies are extremely safe and low cost. Those can be easily integrated into your everyday routine to bring maximum benefit to your vagus nerve tone).

Improve Vagal Tone and Whole-Body Health

The below healthy behaviors that have been shown to improve vagal tone include:

- Physical activity/exercise like walking, yoga, and stretching [9, 10]
- Good nutrition and supplementation with choline, omega-3 fatty acids, B12, and probiotics [8]
- Stress management and meditation [10]

Adjacent to these because of their known mental health benefits are laughter, practicing forgiveness, chanting, and strong social connections [9]. The idea behind these self-care interventions is that **each of these increases vagal tone, which subsequently DIRECT, and reduces inability to recover after a stressful event** [10, 11].

Oddly enough, this seems to include stimulate them or forced laughter. A very small 2012 study looked at the effects of laughter on vagal tone and found that it likely better vagal tone [12]. A combination of laughter, deep breathing, and meditation for 20 minutes is a control group that only had discussions about their health [12].

The results showed that the laughter group had remained the same (no change in mood and HRV — the best measure for vagal tone, which I discuss below. Both groups had improved long-term anxiety [12].

Another study showed that laughter may reduce the risk of heart disease and stroke (which are linked to poor vagal tone), even after controlling for other risk factors like high cholesterol, blood pressure, and body mass index (BMI) [13].

Nutrition

As discussed above, proper nutrition is vital for healing the vagus nerve. Reducing your consumption of inflammatory foods like sugar, trans fats, processed foods, and alcohol can go a long way in reducing inflammation and nervous system hypersensitivity.

A Mediterranean diet is pretty non-restrictive, and research shows that it is linked to better vagal tone [14]. It's a nutrient-dense way to support your gut microbiome, which can help [15]. A meal that has only sprinkles of beef, yogurt, and nuts like pistachios, which are all shown to be beneficial for improving heart rate variability (a measure of vagus nerve health).

However, I tend to start my patients with a Paleo-style diet, as it eliminates even more common inflammatory foods, like dairy, sugar, and corn. A Paleo elimination diet can often help.

Exercise

An effective vagus nerve reset is likely going to include some sort of physical activity, as research consistently shows that this is one of the best ways to improve heart rate variability (HRV) [16]. However, the type of activity may be more different for everyone, like my here is just to get moving.

There really is no best exercise for healing your vagal nerve though research suggests that yoga, tai chi, and meditation is working great for improving heart variability [9]. If you are new to exercise or intimidated by starting a new regimen, I have articles on this topic that can give you some direction.

Massage

Tissue nerve manipulation works by applying pressure with stroking and twisting motions to the area between the trapezius and sternocleidomastoid muscles in the neck (where the carotid artery is located). The goal of this type of massaging of these areas is thought to stimulate the vagus nerve due to its close proximity, and to increase parasympathetic activity and vagal tone [16].

Another type of massage, known as a **carotid sinus massage**, involves applying pressure to the carotid sinus, which is a baroreceptor that is located in the same area (the carotid artery can be felt the strongest). However, carotid sinus massages are typically used in emergency medicine situations to slow rapid heart rate and improve abnormal heart rhythms. It can cause adverse effects, especially in people with underlying heart conditions and carotid artery disease [17].

For this reason, I never recommend using this at home, and it should only be done under the direct guidance of a qualified healthcare provider.

Ice massage applied to the head and spine may also improve HRV when compared to hot water massage or massage using no water or ice. A study done on 30 healthy male subjects had the participants lie face down while receiving an ice massage over their hands and spine. Compared to the no-treatment and water massage control groups, those who received ice massage had significantly reduced heart rates and improved HRV [18].

Cold water facial immersion also seems to be effective in improving vagal tone and HRV, although it's unclear if this is due to the cold water, the massage, or other known benefits as well. This makes it one of the top vagus nerve therapies that comes with little to no risk and is easy to implement. It would be interesting to see more studies into cold exposure and vagus nerve tone, but for now, it appears to be effective for reducing symptoms of nervous system dysfunction.

Slow Breathing Exercises

Deep breathing activates the PNS and tells your body that it can calm down and relax. In contrast, a fight or flight response (when the sympathetic nervous system is active), short, shallow breaths are more common. By taking deep breaths, you can turn down the sympathetic nervous system and turn up the PNS.

Research shows that slow, prolonged breathing can help improve HRV (vagal tone and feelings of relaxation [19]. There are a number of different breathwork techniques out there that have been shown to improve mental and physical health, including improving cognition. If you are new to therapeutic breathing, you can start with the box breathing technique:

1. Breath in through your nose for 4 seconds
2. Hold at the top of your inhale for 4 seconds
3. Exhale through your mouth for 4 seconds
4. Hold the bottom of the exhale for 4 seconds
5. Repeat as many times as desired or until you feel relaxed

When first starting, it may feel difficult to hold your breath for too long. Don't force it, and inhale when you need to — with practice, you will. This technique over time.

Using Heart Rate Variability to Measure the Vagus Nerve Activity

So how do you know if you need to work on your vagal tone anyway?

Activity of the vagus nerve, also referred to as vagal tone, is measured indirectly through heart rate variability (HRV). HRV is a calculation of the time intervals between heartbeats. High HRV is associated with higher vagal tone and overall health. It's associated with a high degree of nervous system flexibility (adaptable and resilient during stressful situations and to return to baseline afterward [20].

Even though nightclothed levels of HRV appear to be associated with health and fitness, HRV is associated with a high degree of nervous system flexibility (adaptable and resilient during stressful situations and to return to baseline afterward [20].

no definitive reference ranges constituting normal or healthy HRV [2, 22].

What's more important is looking at your HRV trend over time (which can be done with a smartwatch or fitness tracker) to see if it is consistently low or has frequent and/or drastic dips. This is a sign your nervous system is taxed and can benefit from a vagus nerve reset.

Electrical Vagus Nerve Stimulation

Electrical VNS is a more invasive method where a small implanted device is surgically placed just under the surface of the skin (usually on the left side of the chest) to stimulate the vagus nerve. It's FDA-approved in the treatment of epilepsy and treatment-resistant depression, and is also approved for the treatment of obesity, stroke rehabilitation, male infertility, autism spectrum disorders, migraines, tinnitus, autoimmunity, and inflammatory disorders [2, 3].

This treatment is reserved for the above conditions, and its invasive nature and high cost make it a less preferred method than vagus stimulation in the general population (best stick to cold water and targeted breathing techniques).

However, if you do think you qualify for eVNS there are also a few potential side effects that you should know about before seeking this type of intervention. They include [2]:

- Voice alteration
- Hoarseness
- Cough
- Tingling
- Difficulty breathing
- Vocal cord paralysis
- Implant site infection
- Left facial nerve paralysis
- Horner syndrome: Nervous dysfunction of the face that leads to a smaller pupil, drooping eyelid, and little or no sweating on the affected side [23].

The two forms of non-invasive electrical VNS are transcutaneous auricular vagus nerve stimulation (taVNS) and cervical transcutaneous vagus nerve stimulation (ctVNS). In taVNS, a transcutaneous electrical nerve stimulation (TENS) unit is placed on the ear to deliver electrical stimulation through the skin to stimulate a branch of the vagus nerve that can be found as the auricular nerve.

In ctVNS, the electrode is the same, but the placement is different. It's placed on the neck area over the sternocleidomastoid muscle near a branch of the vagus nerve [24]. We don't quite understand why or how providing direct electrical impulses to the vagus nerve helps, but it provides a positive result for a number of patients.

There is no standardized protocol or set of parameters that are proven to yield the greatest therapeutic benefit for specific conditions in these treatments. While these may have a more predominant place in improving vagal tone in the future, trying low-cost, at-home methods to improve your overall health is probably where your resources will be best spent.

If you don't find relief with the fundamentals, seek out a provider who is educated in this modality — such as a physiotherapist, physical therapist, chiropractor, neurologist, or alternative healthcare provider — who can help guide you on how to best use this less invasive form of eVNS [24].

Reset Your Vagus Nerve with Self-Care First

Knowing that your vagus nerve is connected to so many systems of the body should help you understand how a disruption there could affect your sense of well-being.

Let it be a comfort that so many established self-care and healthy lifestyle habits like exercise, mindfulness, and nutrition already have a positive impact on vagal tone and heart rate variability. There are also a number of other holistic, complementary interventions like music therapy and targeted breathwork that can help support your vagus nerve.

If you suspect your health challenges are vagus nerve-related, we're here to help. Reach out to schedule a consultation at our clinic so that we can begin exploring with you.

The Ruscio Institute has developed a range of high-quality formulations to help our patients and audience. If you're interested in learning more about these products, please click here. Note that there are many other options available, and we encourage you to research which products may be right for you.

Dr. Michael Ruscio is a DC, Naturopathic Practitioner, researcher, and clinician. He serves as an Adjunct Professor at the University of Bridgeport and has published numerous papers in peer-reviewed journals on topics including thyroid, gut, healthy You. He also founded the Ruscio Institute of Functional Health, where he helps patients with a wide range of GI conditions and serves as the Head of Research.

References

1. Yuro AWC, Sander JW. Can natural ways to stimulate the vagus nerve improve seizure control? Epilepsy Behav. 2017 Feb;67:105-10. DOI: 10.1016/j.yebeh.2016.10.029. PMID: 28152451.
2. Kenny BJ, Bordoni B. Neuromodulating cranial nerve 10 (vagus nerve). In: StatPearls. Treasure Island (FL): StatPearls Publishing; 2018. PMID: 30725956.
3. Mastalekaran K, Rao A. Vagus Nerve Stimulator. In: StatPearls. Treasure Island (FL): StatPearls Publishing; 2021. PMID: 32965946.
4. Vasovagal syncope - Symptoms and causes - Mayo Clinic [Internet]. [cited 2023 May 29]. Available from: https://www.mayoclinic.org/diseases-conditions/vasovagal-syncope/symptoms-causes/syc-20350527
5. Yuan H, Silberstein SD. Vagus nerve and vagus nerve stimulation, a comprehensive review: part I. Headache. 2016 Jan;56(1):71-8. DOI: 10.1111/head.12647. PMID: 26364692.
6. Breit S, Kupferberg A, Rogler G, Hasler G. Vagus Nerve as Modulator of the Brain-Gut Axis in Psychiatric and Inflammatory Disorders. Front Psychiatry. 2018 Mar 1;9:44. DOI: 10.3389/fpsyt.2018.00044. PMID: 29593576. PMCID: PMC5859128.
7. Tindle J, Tadi P. Neuroanatomy, parasympathetic nervous system. In: StatPearls. Treasure Island (FL): StatPearls Publishing; 2023. PMID: 31985934.
8. Gibb AJ. Choline and acetylcholine: what a difference an acetate makes! J Physiol (Lond). 2017 Feb 15;595(4):1021-2. DOI: 10.1113/JP273642. PMID: 28028814. PMCID: PMC5309369.
9. Young HA, Benton D. Heart-rate variability: a biomarker to study the influence of nutrition on physiological and psychological health? Behav Pharmacol. 2018 Apr;29(2 and 3/Spec Issue):140-51. DOI: 10.1097/FBP.0000000000000363. PMID: 29543646. PMCID: PMC5882295.
10. Bonaz B, Sinniger V, Pellissier S. Therapeutic potential of vagus nerve stimulation for inflammatory bowel diseases. Front Neurosci. 2021 Mar 22;15:650971. DOI: 10.3389/fnins.2021.650971. PMID: 33828455. PMCID: PMC8019922.
11. Aasm MA, Katz J, Fadden SM, Chaignier T, Asargiris S, Rios P. Heart rate variability is enhanced in controls but not maladaptive perfectionists during brief mindfulness meditation following stress induction: A stratified randomized trial. Int J Psychophysiol. 2015 Oct;98(1):27-34. DOI: 10.1016/j.ijpsycho.2015.06.005. PMID: 26113478.
12. Brenner RM, Brown CA, Hann SJM, Tranmer J, Zeh DT, Brown PM. Low-Intensity Exercise Training Increases Heart Rate Variability in Patients With Peripheral Artery Disease. Biol Res Nurs. 2020 Jan;22(1):24-33. DOI: 10.1177/1099800419884442. PMID: 31684726.
13. Dalgleß-Kaspar K, Baldwin A, Johnson S, Edling N, Sethi GK. Effect of laughter on mood and heart rate variability in patients awaiting organ transplantation: a pilot study. Altern Ther Health Med. 2012 Aug;18(4):53-8. PMID: 22893377.
14. Hayashi K, Kawachi I, Ohira T, Kondo K, Shirai K, Kondo N. Laughter is the Best Medicine? A Cross-Sectional Study of Cardiovascular Disease Among Older Japanese Adults. J Epidemiol. 2016 Oct 5;26(10):546-52. DOI: 10.2188/jea.JE20150196. PMID: 26972733. PMCID: PMC5037252.
15. Grässler B, Thielmann B, Böckelmann I, Hökelmann A. Effects of Different Training Interventions on Heart Rate Variability and Cardiovascular Health and Risk Factors in Young and Middle-Aged Adults: A Systematic Review and Meta-Analysis. Int J Environ Res Public Health. 19. 2389.https://doi.org/10.3390/ijerph19042389. PMID: 35206125. PMCID: PMC8872113.
16. Meier M, Ueversaeter E, Dimitroff SJ, Bruce ABE, Bonnin UU, Schropp KM, et al. Standardized massage interventions as protocols for the induction of psychophysiological relaxation in the laboratory: a block randomized, controlled trial. Sci Rep. 2020 Jul 8;10(1):11474. DOI: 10.1038/s41598-020-71173-x. PMID: 32641812. PMCID: PMC7343831.
17. Nielsen LJ, Kisvardai I, Vagid Manzoori Ir. StatPearls. Treasure Island (FL): StatPearls Publishing; 2021. PMID: 33085492.
18. Moorenbaan A, Nierebitka L. Effects of ice massage of the head and spine on heart rate variability in healthy volunteers. J Integr Med. 2016 Jul;14(4):306-10. DOI: 10.1016/S2095-4964(16)60266-2. PMID: 27417177.
19. Lin IM, Tai LY, Fan SY. Breathing at a rate of 5.5 breaths per minute with equal inhalation-to-exhalation ratio increases heart rate variability. Int J Psychophysiol. 2014 Mar;91(3):206-11. DOI: 10.1016/j.ijpsycho.2013.12.006. PMID: 24389141.
20. Shaffer F, Ginsberg JP. An overview of heart rate variability metrics and norms. Front Public Health. 2017 Sep 28;5:258. DOI: 10.3389/fpubh.2017.00258. PMID: 29034226. PMCID: PMC5624990.
21. Sadowski A, Dunlap C, Lacombe A, Hanes D. Alterations in Heart Rate Variability Associated With Irritable Bowel Syndrome or Inflammatory Bowel Disease: A Systematic Review and Meta-Analysis. Clin Transl Gastroenterol. 2020 Dec 18;12(1):e00270. DOI: 10.14309/ctg.0000000000000270. PMID: 33346996. PMCID: PMC7751679.
22. Bonaz B, Sinniger V, Pellissier S. Vagal tone: effects on sensitivity, motility, and inflammation. Neurogastroenterol Motil. 2016 Apr;28(4):455-62. DOI: 10.1111/nmo.12817. PMID: 27010134.
23. Khan Z, Bollu PC. Horner Syndrome. In: StatPearls. Treasure Island (FL): StatPearls Publishing; 2023. PMID: 29763176.
24. Yap JYY, Keatch C, Lambert E, Woods W, Stoddart PR, Kameneva T. Critical review of transcutaneous vagus nerve stimulation: challenges for translation to clinical practice. Front Neurosci. 2020 Apr 28;14:284. DOI: 10.3389/fnins.2020.00284. PMID: 32410952. PMCID: PMC7199464.

Links & Resources

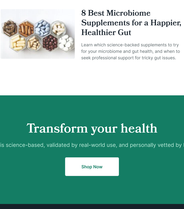
Getting Started

BOOK YOUR FIRST VISIT

Tagged: Cardiovascular Health | Functional Health | Gut Health | Mental Health | Michael Ruscio | Vagus Nerve

Discussion

I care about answering your questions and sharing my knowledge with you. Leave a comment or connect with me on social media using a hashtag when you may have and I just might incorporate it into our next listener questions podcast episode just for you!



WHAT TO READ NEXT

Is Cycle Syncing the Best Way to Balance Hormones?

Cycle syncing promises to enhance fertility, boost mood, and balance hormones. Here's a step-by-step process you may want to try first.

Can Histamine Intolerance Be Cured?

The question, "Can histamine intolerance be cured" doesn't have a simple answer. Our article explores why and shares a 3-step guide for calming symptoms.

Improving Your PCOS Symptoms: A User Guide

Have polycystic ovarian syndrome? Learn how to balance your hormones and reduce PCOS symptoms by prioritizing gut health, diet, and natural treatments.

7 of the Best Supplements for an Underactive Thyroid

Feeling out-of-sorts and lethargic? Discover 7 of the best supplements for when your thyroid could use some pep.

8 Best Microbiome Supplements for a Happier, Healthier Gut

Learn which science-backed supplements to try for your microbiome and gut health, and when to seek professional support for tricky gut issues.

Transform your health

Every product is science-based, validated by real-world use, and personally vetted by Dr. Ruscio, DC.

Shop Now

Dr. Ruscio, DC Clinic
The Ruscio Institute for Functional Health
(800) 325-7552
(Prescription, referred to the Clinic Only ? Not Product Support.)

DrRuscio.com
The Ruscio Institute LLC and Functional Health Formulations
info@drruscio.com (Product and subscription questions)
help@drruscio.com (Product inquiries)
PO Box 60
Roanoke, TX 76262

Disclaimer: (1) The information provided on this website is for the educational purposes only and is not intended to diagnose or treat any illness. Please do not apply any of the information without first speaking with your doctor. (2) The Ruscio Institute is not licensed in the Ruscio Institute LLC Associates Program, an affiliate advertising program designed to provide a means for us to earn fees by linking to Amazon.com and affiliated sites. (3) Individual results may vary. (4) Unless otherwise noted, we are not affiliated with any brands mentioned.