Healthy Gut Healthy Life

The Science Behind Why You Feel The Way You Do
The Key to Optimal Health is your Gastrointestinal (GI) System!

Reduce Bloating and Flatulence, Improve Digestion, Promote Bowel Regularity, Quench Toxins, Reduce GI Inflammation, Support Immune Health, Reduce Dairy Intolerance, Reduce Allergic Responses, and Repair Damaged Intestinal Lining all with One Simple Solution.

When the digestive system is unhealthy and out of balance, the following signs and symptoms may occur:

- Bloating, belching, burning, and flatulence after meals
- Weight gain
- Depression
- Anxiety
- Increased risk of Autism
- ADD/ADHD
- Mental Fogginess
- Insomnia
- A sense of fullness after eating
- Indigestion, diarrhea, constipation
- Systemic reactions after eating, such as sweating
- Nausea or diarrhea after taking supplements
- Rectal itching
- Weak or cracked finger nails
- Dilated blood vessels in the cheeks and nose in the non-alcoholic
- Post-adolescent acne or other skin irritations such as rosacea
- Iron deficiency
- Chronic intestinal infections, parasites, yeast, unfriendly bacteria
- Undigested food in the stool
- Greasy stools
- Skin that bruises easily
- Fatigue
- Amenorrhea (absence of menstruation)
- Chronic vaginitis (vaginal irritation)
- Autoimmune diseases
How can an unhealthy digestive system cause so many issues?

Many people think of the gut solely as the mechanism by which the body digests food. However, your gastrointestinal (GI) tract is much more than a digestion center; in fact, in the scientific community it is literally called your second brain. The gut is called your second brain because it controls the complex process of digestion without assistance of the brain, because it has its own nervous system known as the “enteric nervous system.”

Did you know the gut (second brain) produces 95% of the “happy/feel good” chemical, called serotonin? Without adequate levels of serotonin, we experience insomnia and depression, because the chemicals produced in the gut affect the whole body. This is known as the “gut/brain axis.” This means that the same chemicals that influence your gastrointestinal system affect also your endocrine (hormone), immune, behavioral, and emotional functions. As you can see, regarding the GI as a digestion center only is an unfortunate oversimplification, because dysfunctions of the GI is one of the primary contributing factors to many chronic health problems, such as: trouble losing weight, sinus/allergy problems, and autoimmune disorders worldwide, just to name a few.

A healthy gut has four primary functions:

1. Digestion of food and absorption/distribution of nutrients
2. Prevention of toxins and “bad” bacteria from entering the body
3. Site for specialized cells that produce digestive enzymes, peptide hormones and “neurotransmitters,” such as serotonin.
4. Acts as a communication center to the endocrine and immune systems about the outside environment.

The gastrointestinal system is so important to your overall health that the father of modern medicine, Hippocrates, who lived 400 years before Jesus Christ (over 2,400 years ago) once said, “All disease begins in the gut!” It is said, “Knowledge is power.” It is also written, “People are destroyed for lack of knowledge” (Hosea 4:8). Lack of knowledge about how the body functions – and, thus, a lack of proper care of the body – leads to its dysfunction and a long road of health struggles, needless pain, and suffering for both you and your loved ones.

This document is designed to help equip you to prevent and overcome unnecessary health challenges.
A Brief Overview of the Gastrointestinal System

Over your lifetime you will ingest approximately 60 tons of food that will ultimately pass through your gastrointestinal tract. There is no doubt that food is extremely important for well being, as it provides the vital nutrients that are essential for a healthy life. However, the passage of this food through your gastrointestinal tract is also a potential threat to your health. Digesting food in today’s industrialized world of “Franken-Foods” (a term describing food products that are highly refined, prepackaged, high calorie, low nutrients, and laden with chemicals) breaks down the protective barrier in your intestines and exposes your body to harmful microbes such as viruses, bacteria, molds and fungus. Additionally, exposure to toxic chemicals results in havoc not only in the gut, but also throughout your entire body.

Before moving forward it is important to point out that the GI tract is a tube approximately 30-feet in length starting in the mouth and extending to the anus. Technically, this tube is outside of the body, similar to the way a hole in the middle of a doughnut is not part of the doughnut. In the same way, the 60 tons of food that passes through your gastrointestinal tract is still outside your body until it is digested and absorbed into the blood and tissues. The same is true for the multitude of toxins and bad microbes that enter your body through the digestive tract. In fact, 90% of the bacteria that enters the body does so through the mouth, the first part of the digestive tract.

The human body is estimated to have approximately 100 trillion cells. However, it plays host to roughly ten times as many microorganisms in the intestines alone. This means your body has ten times more microorganisms (bacteria, molds, viruses, etc.) in your gut than you do have in the cells in your body. It is for this reason that approximately 60-70% of the body’s immune system surrounds the gastrointestinal tract. The gastrointestinal system is the primary area where harmful and damaging substances gain access into the body. When the gut barrier is healthy, however, those substances have very limited access into the body. When the gut barrier is compromised and broken down, destructive materials such as toxins and harmful microbes enter the body. This movement of bad microbes, toxins, food proteins, etc. into the body is called, Leaky Gut Syndrome, sometimes called simply, Leaky Gut, or Intestinal Permeability, or Leaky Bowel Syndrome.

When the gut barrier is permeable or leaky, it allows substances to enter into circulation that would not normally be allowed to pass. The immune system then acts as a border patrol, allowing healthy substances to pass inspection but attacking and destroying unhealthy substances.
The Widespread Consequences of Leaky Gut Syndrome

This part of the discussion reveals an often-overlooked cause and effect of much of the chronic disease that plagues mankind. When an unauthorized substance enters the body through a leaky gut barrier, that substance is called an antigen. An antigen could be a virus, bacteria, fungus, intact food protein, chemical toxin, etc. Anything that is foreign in the body and that does not support health and vitality can be defined as an antigen. Antigens are able to enter the bloodstream from one of two ways: through the skin, or the mucus membranes from mouth to anus, as both portals of entry are technically outside the body. These two portals of entry are the only way antigens (harmful, foreign substances) can enter the body. The digestive tract, by the way, has a surface area so large that if it were stretched out flat it would cover an entire tennis court!

Recall that you are designed with approximately 70% of the immune system around your gut, because that is how most antigens enter the body and penetrate into the bloodstream. Therefore, a healthy gut barrier is vital to overall health.

In order to illustrate just how important the gut barrier is, let's imagine a screen in the window of your home; it has thousands of tiny little squares allowing entry of only the smallest particles into your home. Much in the same way, a healthy intestinal lining allows only the smallest digested particles into the body, such as vitamins and minerals.

Now let's imagine the window screens in your home are constructed like a chain linked fence with much larger holes than a traditional screen. This would allow much larger invaders like bugs, birds, snakes, spiders, squirrels, etc, into your home. Once these intruders enter your living space you would protect your property and defend your home from these foreign invaders and chase them out of your house with a broom. Similarly, when your intestinal lining is not healthy and you have “leaky gut,” large particles (antigens) will enter your body and bloodstream. Similar to you chasing critters out of your house with a broom, your body has little guards called white blood cells that recognize the big particles (antigens) as something foreign to the body. The white blood cells respond by sounding the alarm and reporting to all their warrior friends what the foreign invaders look like so the warrior cells (called, Killer Cells) can work together to eliminate the antigens. The white bloods cells scan the antigens for its “finger print,” so- to-speak. Or to put another way, it could be compared to scanning a barcode on a product at your grocery store that identifies the specific product you wish to purchase. When the white blood cell guardians scan an antigen, they tell the immune cells to attack anything that looks like that bar code. While this is a vitally important function of the immune system, leaky gut syndrome can cause this system to become confused and begin attacking the healthy tissues of the body. This is called, autoimmune disease.

In general, autoimmune diseases work like this: If the intestinal lining is leaky and allows large particles to enter into circulation, the white blood cells will respond by scanning the foreigner. Let’s imagine, for example, that the foreign substance is an intact food protein. Intact proteins are not supposed to be allowed into blood circulation under normal circumstances. Proteins are supposed to be broken down into individual amino acids before they are allowed to enter systemic circulation. But if the gut barrier is leaky, intact proteins can get passed the barrier before they are properly broken down. Therefore, based on your genetics, if there happens to be proteins in the thyroid tissue that have a similar structure and shape as the intact food protein that the body has scanned as an invader, the immune system will then confuse the two and begin attacking the proteins in the thyroid as well. This is one mechanism that can cause the autoimmune thyroid condition, Hashimoto’s Thyroiditis. Similarly, if the invaders look like the nerve tissues it could lead to an attack on the nerves, leading to Multiple Sclerosis. And the exact same process also leads to Rheumatoid Arthritis, if the antigen looks similar to your joints, and a number of other autoimmune diseases.
Are you beginning to understand how this works? When the immune system sends the warriors out to destroy the invaders (antigens), if those invaders look similar to your own tissues, your body may begin to attack itself.

Approximately, 50 million Americans suffer from some type of autoimmune disease. This is the number one condition that plagues Americans. Even though more people die from heart disease and cancer, interestingly, research is indicating that leaky gut may contribute to cancer and heart disease. Autoimmune diseases are the third leading cause of morbidity (rate of disease) and mortality (death rate of disease) in the industrialized world, just behind heart disease and cancer respectively. Because of the often-overlooked connection between the gut and diseases of all sorts, a healthy intestinal lining could prevent and perhaps even cure much of the chronic diseases that have plagued modern man. Perhaps Hippocrates was correct: “All disease begins in the gut!”

However, leaky gut does not stop at autoimmune disease; it has been linked to multi-organ system failure, and systemic (whole body) disease and immune dysfunction. It has also been associated with a number of inflammatory conditions such as asthma, eczema, psoriasis, and Crohn’s disease.

As you can see, an unhealthy intestinal system with leaky gut may lead to a number of horrible conditions.
Keeping the Gut Barrier Healthy

At this point you may be asking yourself, “How does one prevent the break down of the intestinal lining, leading towards leaky gut allowing bad things to enter into my body?”

Here are three key action steps to keep the gut barrier healthy:

1. Ensure proper digestion of key nutrients that the intestinal cells need to function properly.
2. Eliminate toxins (“Franken-Foods”) from the gastrointestinal tract.
3. Maintain the ideal ratio of 85% “good bacteria” (known as probiotics and/or intestinal microflora) to 15% “bad bacteria.”

Maintaining your intestinal microflora is perhaps the single most important step you can take to protect your health.

The term, “probiotic” is a compound word meaning, pro life. It refers to the trillions of healthful bacteria that line the intestinal tract and positively alter the intestinal microflora balance by inhibiting the growth of harmful bacteria, promoting good digestion, reducing toxins, and boosting immune function, which will increase resistance to infections. When you have flourishing colonies of probiotics you are better equipped to combat the development of many different chronic diseases, including obesity.

Speaking of weight loss, nearly every study performed that analyzed the intestinal flora in an obese population found a greater occurrence of “bad” bacteria and lower levels of beneficial “good” bacteria. There is even a study that found test subjects who received supplemental probiotics daily were able to reduce abdominal fat by almost 5 percent over a 12-week period, while the group that did not take a probiotic experienced no such positive changes.

Ask yourself, “Am I as healthy as I want to be or can be?” If you said, “no,” then it may be worth investigating your gut health in order to unlock the health potential of your entire body. Even symptoms that are minor and mild in nature, such as fatigue, could be related to gut health, since the digestive system is very complex and demands much energy to function. If the digestive system is strained, you will not feel vital and energetic.
Signs that your intestinal dysfunction may be more advanced and that you may have an imbalance of healthy versus unhealthy bacteria, are as follows:

- Gas and bloating
- Constipation and/or diarrhea
- Sinus/Allergy issues
- Unexplained muscle and joint pain
- Fatigue
- Headaches
- Sugar cravings, especially for heavily refined carbohydrates
- Unrelenting weight gain
- Frequent illness
- Depression
- Sleep issues

Perhaps you are like the majority of the population, which is severely deficient in good bacteria. There are many reasons that may contribute to this problem, but many of them are lifestyle and environmental factors that can be easily controlled. These include, but are not limited to:

- **Antibiotics:** Four out of five Americans are prescribed antibiotics every year, making antibiotics likely the number one cause of imbalance between “good” bacteria and “bad” bacteria, known as “dysbiosis.” Dysbiosis occurs because antibiotics do not recognize “good” bacteria from “bad” bacteria. Thus, they kill all bacteria, including the good microflora that live in your gut. This can significantly decrease your healthy bacteria, which may lead to any number of numerous health consequences. Even if you do not take prescription antibiotics, they can still influence your health, as they are in products you ingest regularly, such as commercially raised meats and dairy, both of which tend to be laden with antibiotics. This alone can disrupt flora balance.

- **NSAIDS:** Abusing non-steroidal anti-inflammatory drugs to alleviate pain such as Aspirin, Advil, Indomethacin, etc. inhibits growth of healthy probiotic bacteria, which can cause a bacterial imbalance in your intestines leading to leaky gut.

- **Sweeteners:** Sweeteners of any kind, including artificial, alter the activity of the intestinal flora causing a disruption in the balance of good to bad bacteria.

- **Processed foods:** An overgrowth of fungus and yeast can be caused by a diet high in refined carbohydrates, thus leading to an overgrowth of the unhealthy bacteria, fungus, and yeast.

- **Agricultural chemicals and pesticides:** Nearly all commercially available fruits and vegetables are treated with pesticides and herbicides and are nearly impossible to avoid.

This short list of just five lifestyle factors is by no means exhaustive, but just these five are so prevalent in our culture that they are almost certainly impacting your health right now. Therefore, it is almost certain that your gut flora balance is affected and will continue to suffer unless you become proactive to correct it on a daily basis. In fact, many researchers and health providers suggest that supplementing with probiotics every day can be more important to your health than taking a daily multi-vitamin.
But before you just go out to buy a probiotic product, there are some things you must know.

Not all Probiotics are the Same

Due to the extreme acidic environment of the stomach and the release of bile from the gallbladder, research indicates that anywhere from 80-99% of traditional unprotected live probiotic cells will be killed off before reaching the intestine. In order for the good bacteria to provide their beneficial effects to you, they must be able to withstand processing conditions and also be viable in sufficient numbers during storage. Traditional probiotic supplements will claim billions of active cells per dose on their labels, but they do not promise they are alive and well as they enter your intestines. Some companies claim to be superior with a process called, “microencapsulation,” that is supposed to shield the probiotics from the damaging effects of the stomach acid.

However, research indicates that none of these reported methods have resulted in shelf-stable, viable probiotics. The bottom-line is that the most expensive supplement is the one that does not work, as it prevents you from receiving the vitally important health benefits that motivated you to purchase a probiotic product in the first place.

Fortunately, there is a solution, and the answer lies in an exclusive proprietary natural fermentation process. At Perfect Origins LLC, we have developed the most advanced and economical probiotic formula anywhere on earth, PerfectBiotics. This product is not about a label that claims billions upon billions of active and live bacteria that are dead before they reach the intestines. PerfectBiotics is about effectiveness, as it has been developed using a cutting-edge fermentation technology developed by Russian researchers to deliver stable and viable probiotic bacteria into your intestines.

Instead of putting billions of probiotic bacteria into a pill and hoping some organisms make it to the intestines alive, we at Perfect Origins focus on getting the organisms into the intestines safely and effectively. This exclusive proprietary process protects each live cell from the harsh bile and stomach acid. Similar to how a special coating process is used for many medications that prevent the drugs from being activated until they reach the small intestine, PerfectBiotics is saturated in a solution that places the individual bacteria in a temporary static state and protects them against the stomach acid. Only after they reach the intestines do they become activated and provide their many health benefits. Once the organisms in this product reach the intestines, they awaken from their state of hibernation and multiply in number, proliferating throughout the entire intestinal tract. This process dramatically enhances the survival and growth of bacteria over traditional probiotic supplements, since all other probiotic products rely on traditional encapsulation and not fermentation. Therefore, PerfectBiotics is the first and only probiotic product of its kind.

In addition to creating an industry-first in maximizing bacterial colonization in the gut, Perfect Origins LLC has pioneered the nutraceutical industry’s first fermented Toxin-Scavenging Lactobacillus. Our exclusive proprietary formula uses a unique, but naturally occurring fermentation process that allows natural and beneficial modifications to the bacterium’s cell wall. During this process the bacterium are trained by repetitive passages of increased doses of mixed toxins from mold (mycotoxins) and other toxic substances bound to “bad” bacterial cell walls, called endotoxins also known as Lipopolysaccharides (LPS), that are released when the bad bacterium ruptures or disintegrates. The strains ultimately selected for the Perfect Origins product thrive in a toxin-challenged environment, thus they inherently seek and destroy toxins. These effects are part of the Toxin-Scavenging Lactobacilli’s innate biological capacities. This exclusive proprietary process allows the Toxin-Scavenging Lactobacillus to easily effect the tiniest and hardest-to-reach spaces without affecting its functional capacity.
Perfect Origins LLC has included an extraordinary blend of **12 extremely unique probiotic strains** not contained in 99% of other products on the market. And, yes, a number of them are naturally resistant to stomach acid and bile. These 12 include:

- **Lactobacillus plantarum**
  L. plantarum may reduce growth and penetration of foreign bacteria (including LPS), viruses, fungi, and mold while providing protection to the nervous system from mold toxins.  
  21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36

- **Lactobacillus rhamnosus**
  Resistant to gastric acid and bile, L. rhamnosus strongly adheres to the intestinal wall, which may be important for competition with unhealthy bacteria, stimulation of mucous production, and the possible modulation of the immune system. It protects and maintains the intestinal barrier, and may inhibit growth of intestinal pathogens such as molds and fungus. It could down-regulate inflammatory responses and may be beneficial in cases of acute infectious diarrhea in children. L. rhamnosus could provide adjuvant therapy for H. pylori treatment (H. pylori is a bacteria associated with ulcers). It could also help manage some symptoms of irritable bowel syndrome.  
  37,38,39,40,41,42,43,44,45,46,47,48,49,50

- **Bifidobacterium bifidum**
  This bacterium is the predominant species in the intestinal tract of breast-fed newborns. It competes with pathogens for adhesion to the intestinal cells, and may beneficially modulate the immune system. It may strongly down-regulate inflammatory responses. Bifidobacteria have also been shown to help in the management of chronic constipation and allergy symptoms. Bifidobacteria have also been shown to help in the management of chronic constipation and allergy symptoms. It enhances nutrient absorption, particularly B-vitamin absorption, and optimizes digestion, maintaining a healthy balance in the colon.  
  51,52,53,54

- **Bifidobacterium infantis**
  This species of bacteria has been the focus of research pertaining to the treatment of acute infectious diarrhea in children. It may help with some symptoms of irritable bowel syndrome, as it has shown resistance against various pathogens such as Salmonella, and may provide benefit in protection against gastroenteritis.  
  55,56,57

- **Bifidobacterium longum**
  This bacterium is known for its ability to support gut health, decreasing gut inflammation, and supporting immune health. Resistant to stomach acid and bile, B. longum binds to human intestinal mucus, preventing entrance of unwanted substances into the body. According to scientists, Bifidobacterium longum is among the first colonizers of the sterile digestive tract of newborns and dominates in breast-fed infants. It inhibits growth of intestinal toxic bacteria, and may strongly down-regulate inflammatory responses. It has also been used successfully in clinical trials on the prevention of relapse in ulcerative colitis patients. Additionally, it produces important B vitamins, providing benefits to the cardiovascular system. It may also be useful in the reestablishment of healthy vaginal flora.  
  58,59,60,61,62,63

- **Enerococcus faedum**
  This beneficial bacteria is effective at relieving diarrhea from acute infections in the gastrointestinal tract or diarrhea caused by inflammation in the gastrointestinal tract.  
  64,65

- **Lactobacillus acidophilus**
  Beneficial in negating the toxic effect and growth of mold, yeast (Candida), and parasites, this species of bacteria has also been used as an adjuvant treatment during chemotherapy and proves beneficial in the treatment of acute infectious diarrhea in children.  
  66,67,68,69,70,71
Lactobacillus casei
Lactobacillus casei has been shown to help manage chronic constipation,72 is also advantageous in managing lactose intolerance, and may support the immune system.73 It could be used as an adjuvant treatment during chemotherapy,74 and may also help with diarrhea associated with antibiotic use and various bacterial infections. 75,76

Lactobacillus helveticus
L. helveticus is resistant to gastric acid and bile. It strongly adheres to intestinal cells, which helps to maintain the integrity of the intestinal barrier. Some of its many potential health benefits include the inhibition of potential pathogens, supporting healthy blood pressure, and beneficial modulation of the immune system. It may help in improving symptoms of lactose intolerance and helping to prevent and reduce the duration of diarrhea. It has been shown to enhance the bioavailability of nutrients, remove allergens and other undesired molecules from food, and aid in protein digestion77,78,79,80

Lactobacillus salivarius
Known for its oral health benefits, L. salivarius has been shown to dramatically decrease the level of plaque forming bacteria in the mouth while naturally freshening breath and reducing gum sensitivity. Additionally, it may inhibit the growth of H. Pylori in the digestive system81,82

Pediococcus acidilactici
Very resistant to destruction by stomach acids, animal research has shown that P. acidilactici is able to balance the intestinal balance of bacteria and thus strengthen overall health. Current research indicates that P. acidilactici is able to promote a healthy inflammatory response in the intestines, as well as support a healthy immune response. P. acidilactici produces several compounds that reduce the number of unhealthy bacteria and parasites. Specifically, it is known to prevent the occupation of the small intestine by unhealthy bacteria like Salmonella and E. coli. Additionally, research indicates a potential supportive role in patients with Multiple Sclerosis.83,84,85,86,87,88

Streptococcus thermophilus
This stomach acid and bile resistant bacteria beneficially modulates the immune system and competes against unhealthy bacteria. Additionally, S. thermophilus may reduce the frequency of colic in infants and may benefit those with lactose intolerance.89,90,91,92

Obviously, PerfectBiotics is not an ordinary probiotic. Based on scientific research, university studies, and field trials, this product has been shown to provide a plethora of health benefits, a summary of which include:

1. Support of the natural growth of beneficial bacteria in the gut to further improve the ratio of healthy probiotic bacteria to unhealthy pathogenic bacteria. A private study at the University of Wisconsin revealed a six-fold increase in the colonization of Lactobacilli throughout the whole intestine.

2. Enhancement of the natural detoxification process by up-regulating key regulatory mechanisms in the body that normally prevent toxin entry into the body. The probiotic bacteria are trained to intercept and destroy toxins in the intestinal wall lining. In addition to the toxic-scavenging effect, the bacterium also binds up toxins to be excreted in the feces.

3. Modulation of the immune function by down-regulating inflammatory responses and up-regulating antigen recognition and antibody production.

4. Inhibition of the growth of unhealthy bacteria, as the acid producing capabilities of the probiotic bacteria are enhanced. This enhanced acid production in the gastrointestinal tract suppresses the growth of organisms in the gut such as Salmonella, E. coli, etc.

5. Improvement of digestion, enhancement in the bioavailability of nutrients, and reduction of dairy intolerance.

6. Support of the regeneration of cells in the gut lining, and protection of the gut lining, showing promise in the support of conditions associated with Leaky Gut Syndrome.
**PerfectBiotics** is manufactured to be allergen-free; it contains no wheat, gluten, soybeans, egg, fish/shellfish, or peanuts or tree nuts.

**PerfectBiotics** has been reported by users to help and assist in the management of the following conditions and symptoms:

**Sinus symptoms**
- Congestion
- Nasal dripping
- Allergic reactions

**GI tract disturbances**
- Bloating
- Ulcers
- Pain, cramping, and inflammation
- Constipation
- Intestinal Permeability (Leaky Gut)

**Genitourinary (reproductive organs and urinary system):**
- Vaginal yeast infections
- Urinary tract infections

**Inflammation**
- General
- Localized to a specific area

**Autoimmune conditions**
- All types

**Skin conditions**
- All types
You have nothing to lose!

Because there are no specified standards of quality, effectiveness, or safety by the FDA when it comes to probiotic products, many products on the market provide little, if any, health benefits. In fact, a report by the Journal of the American Medical Association on 60 commercially available probiotic products showed that most of them did not even meet label claim. Through an exclusive proprietary process, however, PerfectBiotics delivers powerful live bacteria to the gut.

PerfectBiotics is perhaps the most unique and effective probiotic on the market because it is in a class of its own. No other probiotic manufacturer has mastered the technology currently being utilized by Perfect Origins LLC, and those who have tried to replicate it have failed.
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