The Power of Produce!
The earth we live on contains a wonderland of natural, plant-derived medicines. As advanced as we are in our exploration of this planet, we haven't even scratched the surface of uncovering the almost never ending library of nutrients available within the earth's agriculture. The diseases, disorders, and conditions that can be treated by the ingredients found on the greenery of the earth's crust are endless. This is one of the reasons why the majority of supplements and even pharmaceutical drugs are derived from this source. Perhaps even centuries from now, we may very well still not even be able to scratch the surface. The Amazing Digestive Tract

When the intricate details of the human gastrointestinal tract are examined, it can be mind boggling. The precision and detail put into the construction of the housing of the digestive route is nothing less than astonishing. As food enters the stomach, gastric cells respond immediately manufacturing and releasing calculated amounts of acid, enzymes, water, protective lipids, etc. designed to begin the digestion process. Once the foodstuff is degraded to a manageable pulp-soup, the "chyme" is then introduced into the next chamber of assembly line...the duodenum. It is in this approximately 13 inches of lumen where many of the digestive juices from the pancreas enters in and continues the disintegration of the previously digested food goo. Next comes the jejunum, which is about 15 feet long in most of us and lies between the duodenum and the ileum. With a slightly alkaline pH (~7.5), the epithelial cells that line this amazing tunnel of digestion contain villi, which greatly increase the surface area of the intestines for more absorption of food. In fact, on top of the villi is microvilli, which increases the surface area even more. It is within the jejunum that the passive transport of fructose and the active transport of glucose, amino acids, vitamins and small peptides take place. Finally, the last 6-12 feet of small intestine is the ileum. Another slightly alkaline alimentary tissue, the ileum’s main job is to absorb vitamin B12, bile salts and any other food stuff that was otherwise not transported into the blood stream from the previous small intestine. The organs that play a part in the digestive process are the liver, which among other things secretes bile salts and bile acids into the duodenum, using the gall bladder as the holding tank. Then comes the amazing pancreas. This organ secretes bicarbonate (a pH buffer), and enzymes. Enzymes are one of the most important players in the assembly line of the digestive tract. Enzymes are globular proteins that catalyze and speed up biochemical reactions by improving stearic factor. What this means is that basically enzymes speed up reaction rates that would sometimes take hours if not days. In

Although most of us don't have the eating habits of a typical farm animal, it's understood that mass consumption of fresh, raw agriculture would be necessary to achieve the perfect array of nutrients recommended by all the latest research. While this seems a bit absurd, what if there was a way to acquire the vast majority of phyto nutrients recommended in all of the articles we read about. Viva Vitamins' Greater Greens Powder solves this problem, providing a seemingly endless sea of nutrients, so you don’t have to go out every morning and eat your lawn. With the aid of various herbs, vegetable, fruits and exotic plant extracts, Multi Greens Powder gives us the ability to improve digestion, heal visceral tissues and even help reduce the risk of certain cancers.
Within neoplastic tissue, however this is not the case. The biochemistry of cancer cells is different such that when the pH is slightly above 7.5 the cancer cell can no longer proceed past the G1 checkpoint of the cell cycle and move into mitosis (Brewer AK, 1984). One way to take advantage of this is to move alkaline minerals into cancer cells. Thus, certain minerals chelated to inorganic bases have the potential to kill cancer cells (Sartori HE, 1984). The Greater Greens Powder also includes a Probiotic and Enzyme Blend, consisting of “dairy free” Lactobacillus (acidophilus, casei, and rhamnosus), the gram positive Bifidobacterium longum, and digestive enzymes. The lactobacillus family is known as “friendly bacteria” due to its “friendly” actions, which include: aiding in fat digestion (Gilliland S. et al., 1977), decreasing indigestion and diarrhea (de Roos N et al., 2007), and even lowering cholesterol (Anderson J et al., 1999). The enzyme blend portion of the Greater Greens Powder contains amylase (starch degrading enzyme), bromelain, papain, and protease (protein degrading enzymes), cellulase (cellulose degrading enzyme), and lactase (lactose degrading enzyme). Goodbye lactose intolerance.

Quercetin is a flavonol found in many citrus fruits. Included in some of these fruits are the main constituents in the herbs/vegetables portion of the Multi Greens blend. Quercetin has been shown to exhibit amazing anti-inflammatory properties (Guardia T et al., 2001), as well as helping to prevent against G1/S cell cycle progression in certain cancerous cells (Jeong JH et al., 2009). Quercetin also has the unique ability to inhibit the release of histamines and various inflammatory cytokines from mast cells (Park HJ et al., 2008) which greatly aids in reducing allergic responses. Resveratrol is a phytoalexin (an antibiotic produced by plants when under attack by invading organisms) produced primarily by the Japanese knotweed. Its many therapeutic applications has given recent rise to tons of research which include its anticarcinogenic effects (Jang M. et al., 1997), increased activation of SIRT1 genes resulting in enhanced metabolism (Wade N., 2006) and reducing neural plaques involved in neurodegenerative disorders (Karuppagounder SS et al., 2008). Insoluble β-1, 3 glucans are polysaccharides derived from the cell walls of brewers yeast and exhibit amazing immunomodulatory properties (Miura, NN et al., 1996). They also demonstrate exemplary immunoadjuvant activity for antitumor and anticancer therapies (DiLuzio et al., 1980, Morikawa K et al., 1985). Other treatments with beta glucans include, but by far not limited to: arthritis (Kogan G et al., 2005), reducing tissue damage caused by radiation exposure Patchen ML et al., 1986), post surgery infections (Babineau, TJ et al., 1994), atherosclerosis and cardiac disease reduction (Keogh, GF et al., 2003) and reducing risks of Alzheimer’s disease, ischemia, and multiple sclerosis via microglial cell activation (Haga S et al., 1989, Bolcal C et al., 2007), just to name a few. Chlorophyll has also been added to the formula due to its detoxifying and hepatoprotective capabilities (Hsu CY et al., 2008). All these constituents and more are what make this multi greens formula stand above and beyond the rest of the other green food powders on the market.

What’s in Greater Greens Powder? Greater Greens Powder contains a proprietary blend of herbs and vegetables hand selected to perform a myriad of different functions. For example, barley grass, barley malt, brussel sprouts, spirulina, chlorella and others all included in this proprietary blend contain a variety of minerals that act as buffers in our bodies. A slightly acidic biological system can lead to a slew of different problems. These minerals found in Greater Green’s proprietary blend are ionically bound to organic/inorganic conjugate bases (i.e. carbonate, sulfate, phosphate, oxalate, fumarate, etc.) which can help increase pH to its normal physiologically neutral range.

Believe it or not, these buffering minerals do wonders for decreasing the risk of certain cancers. Normal somatic cells operate under pH conditions of approximately 6.5 – 7.5. Within neoplastic tissue, however this is not the case. The biochemistry of...
References:


M O'Hara, Fergus Shanahan; The gut flora as a forgotten organ. EMBO reports 7, 688 - 693 (01 Jul 2006)


To Your Health is a free series of educational literature. Although this copyrighted, this literature may be photocopied and distributed, but may not be altered in any way. To Your Health is not intended as medical advice. For diagnosis and treatment of any medical condition, consult your physician.