## Alcat Micronutrient Assay Cell Science **Patient Information** PATIENT II, PRETEND Name: Systems Date of Birth: 11/04/1977 Gender: F Lab ID: 68220 Lab Director Dr.Jennifer Spiegel, M.D. Date Received: 02/11/2010 Date Collected: 01/01/2010 Date Reported: 05/14/2019

Physician: Sample Physician

Clinic ID: 10804

	No Significant Response	Moderate Response	larked Response
Micronutrients	Result		
L-Tyrosine			
Vitamin B6			
Biotin			
Vitamin C			
Cysteine			
Iron			
Vitamin B2			
Vitamin K1			1
High Gamma-Delta Too	copherol		
Vitamin B9			
Vitamin D3			
Methionine			
Arginine			
Isoleucine			•
lodine			•
Alpha-Ketoglutarate			
Vitamin A			•
Threonine			•
Vitamin B3			)
L-Serine			)
Magnesium			)
Copper			
Delta tocotrienol			
Vitamin E			
Molybdenum			
Asparagine		•	
Valine			
Taurine			
Phenylalanine			
Vitamin B1		•	
Carnitine		•	
Beta 1,3-glucan			
Leucine		•	

Lysine			•
L-Glutamine			
Inositol			
Zinc			
Choline			
MK4			•
Histidine			
Calcium			
Vitamin B12			
Pantothenic acid			
Manganese			
MK7			
Geranylgeraniol			
Significant Micronutrients	Result	t Descri	ption
L-Tyrosine		essent synthe epinep and pil depres alcoho avocad	ne is a non-essential amino acid that is synthesized in the body from an tial amino acid, phenylalanine. <b>Important for:</b> • Building block for protein esis • Synthesis of the brain chemicals, dopamine, norepinephrine, and ohrine • Regulation of mood, appetite, pain sensitivity • Thyroid, adrenal, tuitary function <b>May be useful for the prevention/treatment of:</b> esion, ADHD, cognitive performance and memory, narcolepsy, acute stress, ol, heroine, and cocaine withdrawal <b>Good food sources:</b> poultry, fish, dos, almonds, cheese, milk, yogurt, bananas, soybean, legumes, nuts, and some grains
Vitamin B6		enzym Steroid niacin <b>prevei</b> taste d preme possib Poultry	xine helps convert food into fuel and is a cofactor for more than 50 different tes. <b>Important for:</b> • Metabolism of fats and proteins • Nerve function • d hormone function • Arterial integrity • Immune function • Synthesis of from tryptophan • Breakdown of homocysteine <b>May be useful for the</b> <b>ntion/treatment of:</b> atherosclerosis, hair loss, acne, Meniere's disease, disorders, vertigo, neurological conditions, gestational diabetes, nstrual syndrome, anxiety, ADHD cognitive decline, depression, and dy some protection from certain toxin induced issues <b>Good food sources:</b> <i>y</i> , fish, organ meats, potatoes, banana, seeds, soybeans, spinach, whole , legumes
Biotin		conver eyes, l <b>of:</b> dia neurop	is an essential B vitamin also known as vitamin B7. <b>Important for:</b> • The rsion of carbohydrates, proteins and fats into energy. • Health of skin, nails, liver, and nervous system. <b>May be useful for the prevention/treatment</b> betes, brittle nails, seborrheic dermatitis of infancy, MS, and uremic bathy <b>Good food sources:</b> meat, fish, egg yolks, liver, poultry, dairy cts, seeds, nuts, sweet potatoes, spinach, and broccoli
Vitamin C		surviva Blood Health Detoxi cardiov and flu depres muscle pineap	n C (ascorbic acid) is a water soluble vitamin that is essential for human al. <b>Important for:</b> • Antioxidation • Anti-inflammation • Immune function • vessel formation • Muscle formation • Collagen production • Brain /neurotransmitter production • Absorption of iron • Blood lipid regulation • fication <b>May be useful for the prevention/treatment of:</b> allergic rhinitis, vascular issues, sinusitis, GI issues- constipation, gallstones, gastritis, cold u, UTIs, muscle cramps, dysfunctional uterine bleeding, glaucoma, ssion, asthma, certain types of cancer, diabetes, obesity, and post exercise e soreness <b>Good food sources:</b> citrus fruits, raspberries, strawberries ople, kiwi, cantaloupe, greens, cruciferous vegetables- Brussels sprouts, bi, squash, green beans, carrots, potatoes, tomatoes, peppers

Cysteine	L-cysteine is classified as a "semi-essential" amino acid manufactured from methionine. It is made in small amounts by the liver, but the availability of methionine is necessary <b>Important for:</b> • Protein synthesis • Support of the synthesis of glutathione, the body's "master antioxidant" • Immune support • Lipid metabolism • Digestive support • Vascular support • Antioxidation • Anti- inflammation • Nerve protection • Detoxification <b>May be useful for the</b> <b>prevention/treatment of:</b> Alzheimer's disease, Parkinson's disease, arthritis, poor intestinal health, dementia, multiple sclerosis, male infertility, and osteoporosis <b>Good food sources:</b> beef, pork, chicken, sunflower seeds, walnuts, and soy
Iron	Iron is a mineral found in trace amounts in every cell in the body. Most of the iron in the body is found in the hemoglobin of red blood cells that carries oxygen from the lungs to the tissues of the body and in myoglobin, a protein providing oxygen to muscles. It also functions in several key enzymes in energy production and metabolism, including DNA synthesis. <b>Important for:</b> • Oxygen transport • Growth and development • Immune activity • Energy production and metabolism • Hormone, neurotransmitter, and DNA synthesis <b>May be useful for the</b> <b>prevention/treatment of:</b> ADHD, cognitive decline/dementia, fatigue, infertility, and restless leg syndrome. <b>Good food sources:</b> Iron exists in foods in two forms, heme iron and nonheme iron. The richest sources of heme iron are oysters, liver, lean red beef, poultry, tuna, and salmon. Non-heme iron is harder for the body to absorb. Sources of non-heme iron are legumes, whole grains, nuts, dried fruit, and greens. Consuming these foods with vitamin C rich foods and/or heme sources of iron, enhances the absorption of nonheme iron.
Vitamin B2	Vitamin B2, or riboflavin, is an essential vitamin involved in vital metabolic processes. It is a component of two major coenzymes flavin mononucleotide (FMN-aka riboflavin-5-phosphate) and flavin adenine dinucleotide (FAD). <b>Important for:</b> • Normal cell function, growth and development • Metabolism of carbohydrate, protein, and fat for energy production. • Cofactor needed to produce glutathione, a very important antioxidant • Homocysteine metabolism • Promotes iron metabolism • Metabolism of steroids and certain drugs <b>May be</b> <b>useful for the prevention/treatment of:</b> migraines, Parkinson's disease, hyperhomocysteinemia, and psoriasis <b>Good food sources:</b> turkey, sardines, eggs, legumes, soybeans, broccoli, cauliflower, Brussels sprouts, peppers, root vegetables, and squash
Vitamin K1	Vitamin K is a general name of a family of compounds with a common chemical structure-Vitamin K1 (phylloquinone or phytonadione), vitamin K2 (menaquinone), and vitamin K3 (menadione- no longer used in fortified foods/supplements). Vitamin K1 is the primary source of vitamin K that humans obtain through foods. <b>Important for:</b> • Regulation of blood clotting • Transport of calcium and bone metabolism • Potential antioxidant protection, and insulin sensitivity support, protection of cells lining blood vessels <b>May be useful for the</b> <b>prevention/treatment of:</b> atherosclerosis/ischemic heart disease, nausea hemorrhagic disease of newborns, vomiting of pregnancy, and osteoporosis <b>Good food sources:</b> green tea, leafy greens such as kale, turnip greens, and spinach, broccoli, Brussels sprouts, asparagus, cabbage, other vegetables.

High Gamma-Delta Tocopherol	Vitamin E is a group of eight fat soluble compounds that have varying levels of biological activity. They include four tocopherols (alpha, beta, gamma and delta) and four tocotrienols (alpha, beta, gamma, and delta). Gamma-delta tocopherol comprises about 70% of the vitamin E in a typical American eating pattern. It has very low vitamin E activity but some of its biological effects may be more pronounced than the effects of alpha-tocopherol, the only isomer of vitamin E officially recognized as capable of meeting human requirements. Although gamma tocopherol is not capable of preventing manifestations of vitamin E deficiency, it does appear to have beneficial properties. There is some concern that high doses of alpha-tocopherol alone might disrupt the normal antioxidant effect. High doses of alpha-tocopherol alone might disrupt the normal antioxidant balance and decrease the effect of gamma tocopherol have been defined although mixed tocopherols including all tocopherols have been used and have shown benefit. <b>Important for:</b> • Antioxidation, prevention of free radical damage • Immune support • Regulation of gene expression • Heart and blood vessel protection, dilation, and inhibits platelet aggregation (gamma and delta tocopherol) • Anti-inflammation <b>May be useful for the prevention/treatment of:</b> And more effective than alpha tocopherol in prostate cancer inhibition, oxidative DNA damage reduction, increase in superoxide dismutase activity, inhibition of platelet aggregation, scavenging of peroxynitrate, a powerful oxidative agent believed to play a role in CVD, cancer, and neurodegenerative diseases, regulation of extracellular fluid volume and blood pressure. <b>Good food sources:</b> walnuts, corn oil, soybean oil, flaxseed oil. Some research suggests gamma tocopherol might be transformed to alpha-tocopherol by intestinal microflora
Vitamin B9	Vitamin B9, more commonly known as folate (naturally-occurring form of B9) or folic acid (a synthetic form), is a water-soluble vitamin that is part of the B vitamin family. <b>Important for:</b> • Growth and development • Homocysteine and vitamin B12 metabolism • Brain and CNS function • Immune system function • Cardiovascular support • Red blood cell production • Reproductive health <b>May be</b> <b>useful for the prevention/treatment of:</b> Alzheimer's disease, cardiovascular disease, homocysteine lowering,anemia, migraines, restless legs, dermatitis, autism, depression, cognitive decline/dementia, age-related macular degeneration, birth defects, diarrhea, hearing loss, osteoporosis, cervical dysplasia, ulcerative colitis, and recurrent miscarriages <b>Good food sources:</b> Spinach and other leafy greens, green vegetables, beets, banana, melon, legumes, yeast, mushrooms, oranges and tomato juice.
Vitamin D3	
Methionine	Methionine is an essential amino acid that is involved in the synthesis of important protein molecules and other amino acids. <b>Important for:</b> • The support of detoxification of toxins and heavy metals • Antioxidant function • Digestive support • The availability of folate • The support of healthy liver function • Reduction of histamine in blood • Exercise recovery, connective tissue production, and cardiovascular health • Hair and nail strength <b>May be useful for the</b> <b>prevention/treatment of:</b> pancreatitis, Parkinson's disease, urinary tract infections, and diaper rash <b>Good food sources:</b> Brazil nuts, meat, poultry, fish, yogurt, cheese, eggs, legumes, soybeans, sesame seeds, and grains
Arginine	L-arginine is an amino acid, a building block for protein synthesis, and is best known for its effects on the vascular system. <b>Important for:</b> • Vasodilation – dilatation and relaxation of blood vessels • Wound healing and enhancement of the immune system • Ammonia detoxification <b>May be useful for the</b> <b>prevention/treatment of:</b> anal fissure, congestive heart failure, erectile dysfunction, pre-eclampsia, sickle cell disease, esophageal spasm, infertility, interstitial cystitis, and Raynaud's disease <b>Good food sources:</b> meat, poultry, fish, dairy products, peanuts, nuts, seeds, whole grains, legumes, and chocolate.

	Normal		Beneficial	Highly Beneficial	
Proprietary Formulas	Result				
Metabolic Synergy					
Whey Cool					U
Pure Paleo					U
Mitochondrial NRG					0
BCAA				•	
Amino Acid Synergy					
Pure Pea				•	
Beneficial Formulas	Result	Descrip	otion		
Metabolic Synergy		Capsul	: 360 capsules: https://d es-360-vegetarian-caps catalog.designsforhealt	sules 180 capsules:	th.com/Metabolic-Synergy- rgy-180
Whey Cool		Source	: https://catalog.designs	sforhealth.com/Whey-C	Cool-Powder-Plain
Pure Paleo			: https://catalog.designs per-container	sforhealth.com/PurePa	leo-Protein-Unflavored-810-
Mitochondrial NRG		Source	: https://catalog.designs	sforhealth.com/Mitocho	ondrial-NRG

Cell Scient System	ie ns

## Antioxidant Protection Assay

**Patient Information** Name: PATIENT II, PRETEND s Date of Birth: 11/04/1977 Gender: F Lab ID: 68220 Lab Director Dr.Jennifer Spiegel, M.D. Date Received: 02/11/2010 Date Collected: 01/01/2010 Date Reported: 05/14/2019 Physician: Sample Physician Clinic ID: 10804

	Normal		Beneficial	Highly Beneficial	
Antioxidants and	Anti-inflammatories	Result			
Green Tea					
Glutathione					
High Gamma-Delta	a Tocopherol				<b>I</b>
Chlorophyll					
Lutein					
Beta-Carotene					
Andrographis					•
Echinacea					
Resveratrol					
Quercetin					•
Shiitake					•
Astragalus					•
Catalase					
Mangosteen					
Zeaxanthin					•
Pyrroloquinoline					•
SOD					•
Lipoic Acid					•
Elderberry					•
Maitake					•
Omega 6					•
Vitamin C					
Lavender					
Delta tocotrienol					
Astaxanthin					
Grape Seed					
Rhodiola					
Coenzyme Q10				•	
Cherry				•	
Geranylgeraniol				•	
Pycnogenol				•	
Turmeric					
Frankincense				•	

Omega 3 EPA			
Lycopene			U
Omega 3 DHA			•
Selenium			•
Omega 7			U
Omega 9			
Beneficial Items	Result	Descr	ption
Green Tea		simply such a their al and ca • Anti-i regulat pressu Improv Enhan metabo pressu Alzhein	tea is derived from the plant, Camellia sinensis. Green tea extract is green tea leaves prepared as a supplement. Green tea and its extracts, s ECGC (Epigallocatechin gallate), a polyphenol, have been studied for ntioxidant effects and possible protective impact against heart disease ncer. <b>Important for/potential beneficial properties:</b> • Immune support nflammatory • Antioxidant • Anticoagulant/antiplatelet • Blood glucose tion • Antilipemic • Antiviral • Bone support • Regulation of blood re • Protective against certain types of cancer • Stimulation of CNS • red cognitive performance • Reduction in dental plaque • Diuretic • cement of muscular endurance in exercise • Increase in calorie and fat olism <b>May be useful for the prevention/treatment of:</b> elevated blood re, high cholesterol, heart disease, Insulin resistance, obesity, mer's disease, Parkinson's disease, cancer, inattentiveness, genital and inflammation <b>Sources:</b> tea, supplemental form, capsules
Glutathione		Glutath and glu for/po of toxin damag Antioxi for the neuroo diseas and ma foods to leeks.	hione is produced in the liver from the amino acids, glycine, cysteine, utamic acid. It is considered the body's "master antioxidant". <b>Important</b> <b>tential beneficial properties:</b> • DNA synthesis and repair • Metabolism is and carcinogens • Immune support • Prevention of oxidative cell e • Protein and prostaglandin synthesis • Transport of amino acids • dation,-fights free radicals • Antiviral • Anti-inflammation <b>May be useful</b> e <b>prevention/treatment of:</b> cancer, Parkinson's disease, legenerative disorders, flu, AMD, glaucoma, cataracts, diabetes, heart e, asthma (not inhaled glutathione), lung disease, liver disease, GI e, CFS, and side effects of chemotherapy <b>Sources:</b> Fruit, vegetables, eat but glutathione is poorly absorbed from the GI tract. Consuming used in cysteine production is recommended- onions, garlic, chives, Supplementing with N-acetyl L Cysteine can boost glutathione levels. nione can be taken IV or in liposomal supplemental form.
High Gamma-Delta Tocopherol		biologi delta) a tocoph patterr be more vitamir Althou vitamir some o than al the not and oth have b been u <b>prope</b> suppor dilation inflamir effective damage platele believe regular corn of	n E is a group of eight fat soluble compounds that have varying levels of cal activity. They include four tocopherols (alpha, beta, gamma and and four tocotrienols (alpha, beta, gamma, and delta). Gamma-delta erol comprises about 70% of the vitamin E in a typical American eating i. It has very low vitamin E activity but some of its biological effects may re pronounced than the effects of alpha-tocopherol, the only isomer of a E officially recognized as capable of meeting human requirements. If a gamma tocopherol is not capable of preventing manifestations of a E officiency, it does appear to have beneficial properties. There is concern that high doses of vitamin E might have a pro-oxidant rather in antioxidant effect. High doses of alpha-tocopherol alone might disrupt rmal antioxidant balance and decrease the effect of gamma tocopherol een defined although mixed tocopherols including all tocopherols have sed and have shown benefit. <b>Important for/potential beneficial rties:</b> • Antioxidation, prevention of free radical damage • Immune t • Regulation of gene expression • Heart and blood vessel protection, and inhibits platelet aggregation (gamma and delta tocopherol) • Antination <b>May be useful for the prevention/treatment of:</b> And more we than alpha tocopherol in prostate cancer inhibition, oxidative DNA is reduction, increase in superoxide dismutase activity, inhibition of t aggregation, scavenging of peroxynitrate, a powerful oxidative agent ad to play a role in CVD, cancer, and neurodegenerative diseases, ion of extracellular fluid volume and blood pressure. <b>Sources:</b> walnuts, I, soybean oil, flaxseed oil. Some research suggests gamma tocopherol be transformed to alpha-tocopherol by intestinal microflora

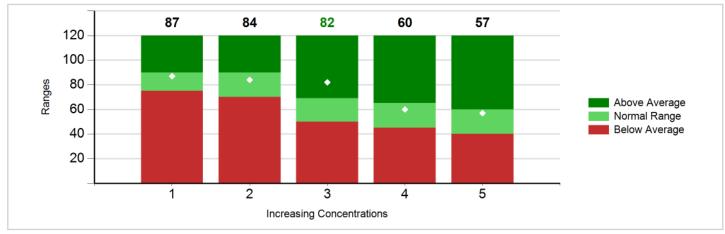
Chlorophyll	Chlorophyll is a pigment that gives plants their green color. <b>Important</b> <b>for/potential beneficial properties:</b> • Anti-aging • Anti-cancer • Antiviral • Deodorant • Wound healing <b>May be useful for the prevention/treatment of:</b> acne, herpes simplex virus and shingles, lung and other types of cancer, pancreatitis, skin cancer, fatigue, arthritis, and fibromyalgia <b>Sources:</b> greens, chlorella, spirulina, alfalfa, parsley, broccoli, green cabbage, asparagus, green beans and peas, matcha green tea, wheat grass, algae and supplemental form.
Lutein	Lutein is a carotenoid vitamin, lutein is related to beta-carotene and is one of two major carotenoids (and zeaxanthin) found as a color pigment in the human eye. <b>Important for/potential beneficial properties:</b> • Antioxidation • light filter • Ocular protection <b>May be useful for the prevention/treatment of:</b> AMD, cataracts, cognitive decline, certain types of cancer, CVD, and diabetes <b>Sources:</b> kale, spinach, broccoli, corn, kiwi, grapes, orange juice, squash, egg yolk, pistachios
Beta-Carotene	Beta-Carotene is a pigmented, fat-soluble compound called a carotenoid. It is converted in part to vitamin A in the body. It is converted to retinal which is essential for vision. Then converted to retinoic acid, it is used in growth and cell differentiation. <b>Important for/potential beneficial properties:</b> • Anti- inflammatory • Antioxidant • Tumor cell growth inhibition • Cardiovascular protection • Immune enhancing <b>May be useful for the prevention/treatment</b> <b>of:</b> cognitive decline, dementia, AMD, breast cancer, GERD, sunburn, retinitis pigmentosa, erythropoietic protoporphyria, rash from sun exposure, and signs of aging <b>Sources:</b> green leafy vegetables-spinach, kale, collard greens, orange-yellow fruits and vegetables- sweet potato, carrots, pumpkin, squash, cantaloupe, bell peppers, broccoli, asparagus
Andrographis	Andrographis is a plant that is native to South Asian countries such as India and Sri Lanka. Known as the "King of bitters", it is commonly used in Ayurvedic medicine. <b>Important for/potential beneficial properties:</b> • Analgesic • Antibacterial • Anti-viral • Anti-inflammatory • Antiplatelet • Anticancer • GI, cardiovascular, liver support • Blood glucose regulation • Immunomodulatory <b>May be useful for the prevention/treatment of:</b> common cold, influenza, tonsillitis, IBD- ulcerative colitis, and RA <b>Sources:</b> supplementation
Echinacea	Echinacea is a perennial wildflower native to North America and is closely related to sunflowers, daisies, and ragweed. <b>Important for/potential</b> <b>beneficial properties:</b> • Antibacterial • Antifungal • Anti-inflammatory • Anti- oxidant • Anti-vital • Immune stimulating • Wound healing <b>May be useful for</b> <b>the prevention/treatment of:</b> infections, common cold, herpes simplex infection (topical), psoriasis(topical), gum inflammation, upper respiratory tract infections (viral), tonsillitis, urinary tract infections, vaginal yeast infection, skin wounds/ulcers (topical), and leukopenia from chemotherapy. <b>Sources:</b> Echinacea is often sold as an herbal supplement.
Resveratrol	Resveratrol is a naturally occurring polyphenol produced by plants to protect from threats to plants' survival- fungus, drought, inflammation, UV irradiation. <b>Important for/potential beneficial properties:</b> • Antioxidation • Anti-aging • Anti-cancer • Anti-inflammatory • Anti-coagulant • Antiviral • Cardioprotective • Liver protection • Immune support • Neuroprotective • Pulmonary protection • Fat metabolism <b>May be useful for the prevention/treatment of:</b> Alzheimer's, cardiovascular disease, metabolic syndrome/obesity, diabetes, insulin resistance, cognitive decline, allergic rhinitis, certain types of cancer, and ulcerative colitis <b>Sources:</b> red wine, red grape skins, purple grape juice, mulberries, peanuts, mulberries, blueberries and bilberries, eucalyptus, and spruce
Quercetin	Quercetin is an antioxidant that belongs to a class of water-soluble plant substances called flavonoids, which are present in certain fruits and vegetables <b>Important for/potential beneficial properties:</b> • Antioxidation • Inhibition of histamine release, anti-allergy • Enhancement of capillary and tissue integrity • Certain cancer risk reduction • Anti-inflammatory • Antiviral • Immune support • Glucose regulation • Inhibition of AGE formation <b>May be</b> <b>useful for the prevention/treatment of:</b> obesity, CVD, allergic rhinitis, Meniere's disease, diabetes, interstitial cystitis, prostatitis <b>Sources:</b> tea, onions, kale, watercress, elderberry, tomatoes, broccoli, green beans, asparagus, apples, and berries

Shiitake	Shiitake mushrooms are edible mushrooms native to East Asia. Research on the compounds in shiitake mushrooms, shows that this fungus provides many health benefits. <b>Important for/potential beneficial properties:</b> • Anti- inflammatory • Antioxidant • Cardiovascular support • Lipid lowering • Immune system support • Blood glucose regulation • Tumor inhibition <b>May be useful</b> <b>for the prevention/treatment of:</b> Type 2 diabetes, cardiovascular disease, certain types of cancers, immune issues, and hypertension <b>Sources:</b> You can find it fresh, dried or in various dietary supplements.
Astragalus	Astragalus comes from the root of a perennial plant in the legume family that grows in the northern and eastern parts of China as well as in Mongolia and Korea. There are more than 2,000 species of astragalus but most astragalus supplements contain Astragalus membranaceus. Astragalus contains a variety of active constituents including more than 40 saponins, several flavonoids, polysaccharides, trace minerals, amino acids, and coumarins. – Astragalus is also called huang qi or milk vetch. <b>Important for/potential beneficial</b> <b>properties:</b> • Antibacterial • Anti-inflammatory • Antioxidant • Antiviral • Bone support • Cardiovascular support • Fertility –increase in sperm motility • Blood glucose support • Liver and kidney protective • Immune support • Vasorelaxant • Wound healing <b>May be useful for the prevention/treatment of:</b> common cold, upper respiratory infections, fibromyalgia, diabetes, blood pressure, heart disease, weakness, arthritis, hepatitis, breast and lung cancer, asthma, and anxiety <b>Sources:</b> The root of the astragalus plant is put in soups, teas, extracts, and capsules.
Catalase	Catalase is a key antioxidant enzyme in the body's defense against oxidative stress. It converts free radicals into hydrogen peroxide which ultimately breaks down to stable and safe water and oxygen. <b>Important for/potential beneficial properties:</b> • Antioxidation • Anti-aging and anti-degenerative • Longevity support • Fat metabolism • Support of DNA integrity <b>May be useful for the prevention/treatment of:</b> degenerative disease, mitochondrial dysfunction, cardiac issues, and cataracts <b>Sources:</b> wheat and barley grass, alfalfa, Brussels sprouts, leeks, onions, broccoli, parsnips, zucchini, spinach, kale, radishes, carrots, red peppers, turnips, cucumbers, celery, avocado, potato, and red cabbage, kiwi, peaches, cherries, apricots, bananas, watermelon, pineapple
Mangosteen	Mangosteen is a tropical fruit cultivated in Southeast Asia. The fruit, fruit juice, rind, twig, and bark are used as medicine. <b>Important for/potential beneficial</b> <b>properties:</b> • Antioxidation • Anti-allergy • Antibacterial • Anti-inflammatory • Antiviral • Immune support • Astringent • Free radical scavenger <b>May be</b> <b>useful for the prevention/treatment of:</b> diarrhea, UTIs, gonorrhea, thrush, tuberculosis, cardiovascular issues, menstrual disorders, cancer, osteoarthritis, dysentery, and skin issues <b>Sources:</b> mangosteen fruit, supplemental form

	Normal		Be	eneficial	Highly Beneficial	
Proprietary Formulas			Result			
Immunoberry						
Immunitone Plus						
Mito-PQQ						•
Omega Avail					V	
Beneficial Formula	as	Result	Descrip	tion		
Immunoberry			Source:	https://catalog	.designsforhealth.com/Im	nmunoBerry-Liquid

	Alcat Redox Assay							
Cell Science Systems	Patient Information		Name:	lame: PATIENT II, PRETEND				
Lab Director	Date of Birth:	11/04/1977		Gender:	F	Lab ID:	68220	
Dr.Jennifer Spiegel, M.D.	Date Received:	02/11/2010		Date Collected:	01/01/2010	Date Reported:	05/14/2019	
	Physician:	Sample Phy	vsician			Clinic ID:	10804	

The Redox Score is an indication of your resistance to oxidative stress, relative to the general population. An average or below average response can be improved by appropriate use of nutrients and antioxidants as determined by the Antioxidant Protection Assay and guidance from your practitioner.



The Redox scores indicate an average response.