			Minerals		
Boron**	enhances the utilization of vitamin D; bone formation; immune system; inflammation	osteoporosis; osteoarthritis; auto-immune	2-3mg	fruits and vegetables	little data on toxicity
	bone & tooth formation; heart & muscle function	osteoporosis, bone spurs, muscle cramps, rheumatism	200-1500 mg	barley, kale, unrefined grains; milk, green veggies	Prolonged excess may cause a mineral imbalance.
Chromium**	glucose metabolism; blood sugar regulation; heart function	atherosclerosis, diabetes, hypoglycemia, high cholesterol, overweight	200-500 mcg	whole grain cereals, molasses, meat, yeast	Nontoxic at therapeutic levels.
Copper**	Red blood cell production; skeletal, heart & muscle function	osteoporosis, digestive function, nerve disorders	2-3 mg	green leafy veggies, almonds, beans, sea food	Higher doses can be toxic. Zinc supplementation may decrease copper absorption (must take both).
Iodine	Necessary for thyroid hormone	Hypothyroid; goiter; fatigue	50-300 mcg	iodized salt; seaweed products; seafoods including fish and shellfish	toxicity over 1000 mcg per day: rash, headache, difficulty breathing, metallic taste
Iron	Red Blood cell production	dizziness, depression, anemia	10-30 mg	blackberries, cherries, spinach	Do NOT take iron unless told to do so by your doctor. Iron excess is associated with health problems.
Magnesium**	energy processes, nerve function, enzyme activation, muscle relaxation, bone strength	stress, senility, osteoporosis, insomnia, muscle and blood vessel spasms	150-1500 mg	avocados, almonds, whole grains, grapefruit	Doses over 400 mg can cause transient diarrhea in some people (increase slowly).
Manganese**	glandular function, bone & ligament health	diabetes, asthma, digestive disturbance	2-10 mg	nuts, seeds, avocados, grapefruit, apricots	High doses may create other mineral imbalances.
Phosphorus	energy production, bones/teeth, B Vit. activation	tooth/gum disorders, impotence, equilibrium	300-600 mg	barley, beans, fish, lentils, dark green veggies	Prolonged, large doses can cause calcium deficiency or mineral imbalance.
Potassium	pH balance, nerve function	stress, atherosclerosis, high blood pressure	1800-5625 mg	potato peel, bananas, beans, almonds, whole grains	Do not take high supplemental doses (food Sources are O.K.) when taking heart medicine without physician guidance.
Selenium**	antioxidant, synergistic with vitamin E	cancer prevention; aging	100-200 mcg	bran, whole grains, tuna, broccoli, onion	Prolonged excess may be toxic.
Sodium	pH balance, nerve function	Excess is more common and is assoc with high blood pressure	limit daily intake to 1,500 mg	okra, celery, black mission figs	Very few people (athletes, diarrhea /vomiting) need to supplement.

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Zinc*

major functions

co-factor in numerous metabolic processes

** indicates minerals most often deficient in the diet. Other minerals not marked with a * usually do not need to be supplemented.

Other minerals and trace minerals include: molybdenum, flourine, chlorine, cobalt, silicon, sulphur, vanadium

Oils						
Omega-3 Fatty Acids	inflammatory	Cardiovascular disease, high cholesterol, high blood pressure, allergic and inflammatory conditions, autoimmune diseases, cancer, neurological disease, menopause, general health.		and flax seeds; can find "funcional foods" such as eggs that have increased	Only 5-10% of Flax oil is converted to DHA/EPA in many of the population. Fish consumption limited by potential mercury toxicity; must be certified PCB & mercury-free. Should not smell rancid.	
Linolenic Acid	A "good" omega-6 oil that can have anti-inflammatory effects.	similar to omega-3	500-1000 mg		Proper diet balances good omega-3 oils with good omega-6 oils. American diet is excessive in poor quality omega-6 oils.	

		Acces	ssory Nutrien	ts	
	Pigments found in colorful fruits and vegetables. They are potent antioxidants.		varies	colorful fruits and vegetables, like blueberries and other intensely colored fruits	
(ubiquinone)	A naturally-occurring compound that is a vital for muscle energy, including the heart	cardiovascular disease, CHF, immune deficiency, periodontal disease, cancer, mitral valve prolapse, others.	20-200 mg	None.	Depleted by statins (lipid lowering drugs) and red yeast riceif on these agents, must take at least 100 mg/day.
	plant cell walls present in whole grains, legumes, fruits and vegetables. This part of the plant is usually lost in processing.	obesity, atherosclerosis, diabetes, constipation, diverticulosis, irritable bowel, colon cancer, high blood pressure, high cholesterol, other diseases	at least 15 gms		build up slowly
(FOS=fructo-	Naturally-occurring sugar- like substances that act as food to friendly GI bacteria.	diarrhea, constipation, malabsorption, inflammatory conditions, candidiasis, IBS, B12 deficiency	varies		
bacteria - (probiotics)	The naturally-occurring bacteria of the colon help protect us from many conditions,	same as above	varies	yogurt has insufficient quantities	Damaged or destroyed by food poisoning, antibiotics, NSAID's, lack of stomach acid, other drugs, infections.
	Good yeast that maintains the healthy ecology of the gut by eliminating bad bacteria and yeast.	same as above	varies		
Alpha Lipoic Acid	Potent anti-oxidant; helps the liver detoxify many compounds, including heavy metals	fatigue, toxic conditions, neuropathy, other conditions	200-600 mg		"R" form more expensive but may be more effective
Digestive Enzymes	helps the stomach and intestines digest proteins, fats and complex carbohydrates	malabsorption, fatigue, allergy, inflammatory conditions, IBS, many other conditions	varies		
Digestive Acid & Pepsin	as above	as above	varies		

Herbs					
Licorice		GERD, stomach ulcers, malabsorption	varies		"DGL" is a special, recommended form that will not raise blood pressure
Aloe Vera	helps protect the lining of the GI tract	GERD, IBS, diarrhea, malabsorption,	varies		
Curcurmin	the yellow pigment from the spice turmeric; has anti- inflammatory and anti-cancer properties		varies		
Cinnamon	helps regulate blood sugar	hypoglycemia, pre-diabetes	varies		
Ginger	has anti-inflammatory and stomach-protecting effect	arthritis, GERD	varies		
Green Tea	potent anti-oxidant; also stimulates the metabolism	obesity; cancer prevention, inflammatory conditions	varies		

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