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Frank

Test date: 5/25/2004
(accession: A0405250013)

Next Test Due: 11/24/2004

CellMate™ Foundational Wellness Profile Report

Practitioner

Printed on Monday, June 14, 2004 for:

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Basic Status High/Low - Plasma Amino Acid on 5/25/2004

Frank

Male / Age: 60

Client ID:548664859 (9732)

Foundational Wellness Profile Date: 5/25/2004

The % Status is the weighted deviation of the laboratory result.

Low Results

-80	-60	-40	-20	0		% Status	Result	Low	High	
						-71.67	L	64.00	90.00	210.00
						-50.00	L	6.00	6.00	30.00
						-49.00	L	52.00	50.00	250.00
						-48.67	L	152.00	150.00	300.00
						-46.44	L	233.00	225.00	450.00
						-46.00	L	26.00	25.00	50.00
						-42.38	L	53.00	45.00	150.00
						-41.33	L	63.00	50.00	200.00
						-38.42	L	56.00	45.00	140.00
						-38.18	L	63.00	50.00	160.00
						-37.27	L	22.00	15.00	70.00
						-35.88	L	57.00	45.00	130.00
						-34.55	L	67.00	50.00	160.00
						-31.60	L	216.00	170.00	420.00
						-31.43	L	83.00	70.00	140.00
						-30.00	L	16.00	10.00	40.00
						-25.93	L	195.00	130.00	400.00

-25%

High Results

-100	-50	0	50	100		% Status	Result	Low	High	
						92.71	H	3.64	1.50	3.00
						73.33	H	195.00	10.00	160.00
						50.00	H	1.00	0.00	1.00
						50.00	H	1.00	0.00	1.00
						50.00	H	1.00	0.00	1.00
						50.00	H	1.00	0.00	1.00
						42.00	H	4.60	0.00	5.00
						36.67	H	61.00	35.00	65.00
						30.00	H	4.00	0.00	5.00
						25.00	H	3.00	0.00	4.00
						25.00	H	6.00	0.00	8.00

-25%

25%

Basic Status High/Low - Blood Test (CWP) on 5/26/2004

Frank

Male / Age: 60

Foundational Wellness Profile Date: 5/25/2004

The % Status is the weighted deviation of the laboratory result.

Low Results

-80	-60	-40	-20	0		% Status	Result	Low	High	
		-45.24			Calcium	-45.24	L	8.60	8.50	10.60
		-38.95			Lymphocyte Count	-38.95	L	1242.00	800.00	4800.00
		-33.33			Lymphocytes	-33.33	L	23.00	18.00	48.00
		-31.42			MCHC	-31.42	L	32.74	32.00	36.00
		-30.22			Monocyte Count	-30.22	L	378.00	200.00	1100.00
		-28.95			B.U.N./Creatinine Ratio	-28.95	L	10.00	6.00	25.00
		-28.46			W.B.C.	-28.46	L	5.40	4.00	10.50
		-26.00			Thyroxine (T4)	-26.00	L	6.30	4.50	12.00
		-25.00			CO2	-25.00	L	23.00	20.00	32.00

-25%

High Results

-100	-50	0	50	100		% Status	Result	Low	High	
			94.12		LDL	94.12	H	160.00	62.00	130.00
			61.76		Glucose	61.76	H	103.00	65.00	99.00
			54.70		Triglycerides	54.70	H	156.00	0.00	149.00
			54.00		Cholesterol	54.00	H	244.00	140.00	240.00
			43.33		T-3 Uptake	43.33	H	38.00	24.00	39.00
			38.33		Anion Gap	38.33	H	18.60	8.00	20.00
			33.33		Eosinophils	33.33	H	5.00	0.00	6.00
			30.00		Creatinine	30.00	H	1.30	0.50	1.50
			27.80		MCV	27.80	H	95.56	80.00	100.00

-25%

25%

Basic Status High/Low - Urine Organic Acid on 5/25/2004

Frank

Foundational Wellness Profile Date: 5/25/2004

Male / Age: 60

The % Status is the weighted deviation of the laboratory result.

Low Results

-80	-60	-40	-20	0	% Status	Result	Low	High	
					-60.00	L	162.00	180.00	360.00
					-48.36	L	1.60	1.50	7.60
					-43.19	L	207.78	125.00	1340.00
					-41.58	L	3.60	2.00	21.00
					-40.91	L	0.10	0.00	1.10
					-34.56	L	23.00	0.00	149.00
					-29.17	L	1.00	0.00	4.80
					-28.00	L	1.90	0.80	5.80

-25%

High Results

-50	0	50	100	150	% Status	Result	Low	High	
					209.72	H	311.67	0.00	120.00
					160.00	H	23.10	0.00	11.00
					83.33	H	6.00	0.00	4.50
					78.57	H	1.80	0.00	1.40
					59.09	H	0.12	0.00	0.11
					31.82	H	0.90	0.00	1.10
					27.42	H	6.80	2.00	8.20
					25.00	H	0.60	0.00	0.80
					25.00	H	210.00	0.00	280.00

-25%

25%

Basic Status Alphabetic - Plasma Amino Acid on 5/25/2004

Frank

Male / Age: 60

Foundational Wellness Profile Date: 5/25/2004

The % Status is the weighted deviation of the laboratory result relative to the range.

-100	-50	0	50	100		% Status	Result	Low	High	
						-10.00	8.00	0.00	20.00	
						30.00	H	4.00	0.00	5.00
						-12.50	1.50	0.00	4.00	
						-30.00	L	16.00	10.00	40.00
						0.00	425.00	250.00	600.00	
						50.00	H	1.00	0.00	1.00
						-38.18	L	63.00	50.00	160.00
						-35.88	L	57.00	45.00	130.00
						-50.00	L	6.00	6.00	30.00
						-10.00	2.00	0.00	5.00	
						0.00	1.00	0.00	2.00	
						50.00	H	1.00	0.00	1.00
						-37.27	L	22.00	15.00	70.00
						73.33	H	195.00	10.00	160.00
						25.00	H	3.00	0.00	4.00
						8.75	57.00	10.00	90.00	
						25.00	H	6.00	0.00	8.00
						-10.00	2.00	0.00	5.00	
						-42.38	L	53.00	45.00	150.00
						-24.67	714.00	600.00	1050.00	
						-46.44	L	233.00	225.00	450.00
						92.71	H	3.64	1.50	3.00
						-31.43	L	83.00	70.00	140.00
						50.00	H	1.00	0.00	1.00
						50.00	H	1.00	0.00	1.00
						-6.67	13.00	0.00	30.00	
						-34.55	L	67.00	50.00	160.00
						-10.00	134.00	90.00	200.00	
						-48.67	L	152.00	150.00	300.00
						-46.00	L	26.00	25.00	50.00
						-41.33	L	63.00	50.00	200.00
						-38.42	L	56.00	45.00	140.00
						-24.03	0.81	0.50	1.70	
						-3.33	14.00	0.00	30.00	
						8.33	7.00	0.00	12.00	
						-25.93	L	195.00	130.00	400.00
						42.00	H	4.60	0.00	5.00
						-71.67	L	64.00	90.00	210.00
						-49.00	L	52.00	50.00	250.00
						-24.67	138.00	100.00	250.00	
						36.67	H	61.00	35.00	65.00
						-22.86	69.00	50.00	120.00	
						-31.60	L	216.00	170.00	420.00
						32.88				
						-9.33				

Basic Status Alphabetic - Blood Test (CWP) on 5/26/2004

Frank

Male / Age: 60

Foundational Wellness Profile Date: 5/25/2004

The % Status is the weighted deviation of the laboratory result relative to the range.

-100	-50	0	50	100	% Status	Result	Low	High
					-7.69	1.69	1.10	2.50
					16.67	4.40	3.60	4.80
					-15.60	68.00	25.00	150.00
					38.33 H	18.60	8.00	20.00
					-11.90	13.00	5.00	26.00
					-28.95 L	10.00	6.00	25.00
					-23.00	54.00	0.00	200.00
					-16.67	1.00	0.00	3.00
					-4.55	0.60	0.10	1.20
					-45.24 L	8.60	8.50	10.60
					-2.58	2.77	2.30	3.30
					19.23	105.00	96.00	109.00
					54.00 H	244.00	140.00	240.00
					-25.00 L	23.00	20.00	32.00
					30.00 H	1.30	0.50	1.50
					-6.00	270.00	50.00	550.00
					33.33 H	5.00	0.00	6.00
					-17.57	2.40	1.20	4.90
					-3.85	30.00	0.00	65.00
					-13.33	2.60	1.50	4.50
					61.76 H	103.00	65.00	99.00
					1.16	53.00	31.00	74.00
					-4.44	45.20	37.00	55.00
					-14.00	14.80	13.00	18.00
					-7.39	89.00	40.00	155.00
					-14.00	154.00	100.00	250.00
					94.12 H	160.00	62.00	130.00
					-38.95 L	1242.00	800.00	4800.00
					-33.33 L	23.00	18.00	48.00
					21.49	31.29	27.00	33.00
					-31.42 L	32.74	32.00	36.00
					27.80 H	95.56	80.00	100.00
					-30.22 L	378.00	200.00	1100.00
					3.85	7.00	0.00	13.00
					-23.29	3456.00	1800.00	8000.00
					14.00	64.00	48.00	73.00
					-20.00	3.10	2.50	4.50
					5.00	4.60	3.50	5.50
					-10.00	7.00	6.00	8.50
					9.23	2.69	2.10	3.10
					-20.56	4.73	4.20	6.00
					5.00	22.00	0.00	40.00
					0.00	20.00	0.00	40.00
					3.85	142.00	135.00	148.00
					43.33 H	38.00	24.00	39.00
					-26.00 L	6.30	4.50	12.00
					54.70 H	156.00	0.00	149.00
					1.38	3.00	0.35	5.50
					22.41	6.60	2.40	8.20
					-28.46 L	5.40	4.00	10.50
					21.45			
					0.53			

Basic Status Alphabetic - Urine Organic Acid on 5/25/2004

Frank

Male / Age: 60

Foundational Wellness Profile Date: 5/25/2004

The % Status is the weighted deviation of the laboratory result relative to the range.

-100	-50	0	50	100		% Status	Result	Low	High
						16.22	0.05	0.00	0.07
						-48.36	L	1.60	1.50 7.60
						59.09	H	0.12	0.00 0.11
						8.33	4.90	0.00	8.40
						21.82	7.90	0.00	11.00
						0.00	0.70	0.00	1.40
						22.14	22.20	2.00	30.00
						10.00	0.30	0.00	0.50
						12.50	0.50	0.00	0.80
						-11.76	1.95	0.00	5.10
						83.33	H	6.00	0.00 4.50
						-10.00	4.40	0.00	11.00
						209.72	H	311.67	0.00 120.00
						-43.19	L	207.78	125.00 1340.00
						-7.35	79.00	50.00	118.00
						1.67	3.10	0.00	6.00
						-18.16	374.00	175.00	800.00
						25.00	H	0.60	0.00 0.80
						2.63	1.00	0.00	1.90
						1.67	6.20	0.00	12.00
						-12.50	0.06	0.00	0.16
						20.00	0.70	0.00	1.00
						-34.56	L	23.00	0.00 149.00
						25.00	H	210.00	0.00 280.00
						-24.55	2.40	1.00	6.50
						27.42	H	6.80	2.00 8.20
						6.98	49.00	0.00	86.00
						-16.67	60.00	40.00	100.00
						-5.00	1.80	0.00	4.00
						-18.89	4.80	2.00	11.00
						78.57	H	1.80	0.00 1.40
						-29.17	L	1.00	0.00 4.80
						31.82	H	0.90	0.00 1.10
						-21.43	0.04	0.00	0.14
						-7.14	0.03	0.00	0.07
						-40.91	L	0.10	0.00 1.10
						-16.67	15.00	0.00	45.00
						23.97	0.54	0.00	0.73
						18.12	10.90	0.00	16.00
						-7.14	1.20	0.00	2.80
						-12.86	1.30	0.00	3.50
						-12.96	1.00	0.00	2.70
						-41.58	L	3.60	2.00 21.00
						-60.00	L	162.00	180.00 360.00
						160.00	H	23.10	0.00 11.00
						3.85	0.70	0.00	1.30
						-28.00	L	1.90	0.80 5.80
						-20.00	0.30	0.00	1.00
						31.59	Total Status Deviation		
						-0.12	Total Status Skew		

Client Summary Review

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

Nutritional Support

The following supplements may help to balance your biochemistry. Consult your practitioner.

- | | |
|--|---|
| <input type="checkbox"/> 1-CAC Entry Protocol
See Nutrition Detail | <input type="checkbox"/> 1-Digestive Enzymes
With meals |
| <input type="checkbox"/> 1-Increase Amino Acid Intake
8-10 grams daily | <input type="checkbox"/> 1-Oral Electrolyte - Sports Formula
2x daily |
| <input type="checkbox"/> 1-Pyridoxal-5-Phosphate
2x daily 20 mg | <input type="checkbox"/> 1-Riboflavin (B2), B12, Folate
See nutrition detail |
| <input type="checkbox"/> 1-Saccharomyces boulardii
1-2 capsules with each meal | <input type="checkbox"/> 1-Vitamin E and Acai
2x daily 800 IU |
| <input type="checkbox"/> 2-Betaine HCL
2 tablets at mealtime | <input type="checkbox"/> 2-Glycine
2x daily 500 mg |
| <input type="checkbox"/> 2-Iodine
2x daily 75 mcg | <input type="checkbox"/> 2-Magnesium Citrate or Glycinate
2x daily 150 mg |
| <input type="checkbox"/> 2-Magnesium, B6 & Manganese
2x daily see details | <input type="checkbox"/> 2-Vitamin C
1x daily 1000 mg |
| <input type="checkbox"/> 2-Zinc and Pyridoxine (B6)
1x daily see details | <input type="checkbox"/> 2-Zinc Citrate
2x daily 50 mg |
| <input type="checkbox"/> 3-Calcium
1x daily 800 mg | <input type="checkbox"/> H - Billberry
1 - 3 times daily |
| <input type="checkbox"/> H - Garlic
1 - 3 times daily | <input type="checkbox"/> H - Ginseng (Panax)
1 - 3 times daily |
| <input type="checkbox"/> H - Green Tea
1 - 3 times daily (Can be used as a drink) | |

Nutritional Supplements to AVOID

The following supplements may aggravate already out-of-balance biochemistry.

Creatine

MCT Oil

Selenium

Food Recommendations

The following foods may help to balance or strengthen your biochemistry.

Apricots, Dried	Artichoke	Beef	Black Pepper
Blackberries	Blueberries	Bok Choy Cabbage	Boysenberries
Broccoli	Brussel Sprouts	Cantaloupe	Cauliflower
Clams	Cornish Game Hens	Escarole	Fava Beans
Grapefruit	Green Beans	Guava	Halibut
Honeydew Melon	Kale	Kidney Beans	Loganberries
Macadamia Nuts	Mozarella Cheese	Mushrooms	Mustard Greens
Navy Beans	Onions	Orange	Oysters
Papaya	Pecans	Plantains	Potatoes
Pumpkin	Red Peppers	Ricotta Cheese	Salmon
Shellfish	Snapper	Soy	Strawberries
Turnip Greens	Walnuts	Wild Rice	Yams

Foods to AVOID

The following foods may aggravate already out-of-balance biochemistry.

Bacon	Brazil Nuts	Cholesterol Rich Foods	Chuck Roast
Coconut Cream	Coconut Milk	Coffee	Cucumber
Dairy Cream	Egg Yolk	Hydrogenated Fats	Liver Pate
Margarine	Soybeans	Sweetbreads	

Frank

Male / Age: 60

Out-Of-Balance Panel Values

The following panels have a PSD of greater than 25% indicating need for further review. PSD is the Panel Status Deviation, or the average imbalance of that subset of results. The PSS is the Panel Status Skew, or the direction, negative (deficiency) or positive (excess), of that subset of results.

Panel Name	PSD	PSS
CAC Cycle Ratios	63.74%	19.05%
Neuroendocrine Met.	39.99%	-39.99%
Gluconeogen	35.89%	-21.22%
Muscle Metabolites	35.00%	30.00%
Essential Amino Acid	34.02%	-26.68%
Lipid	34.00%	34.00%
Ammonia/Energy	33.21%	-33.21%
Gastrointest. Function	33.12%	27.56%
CNS Metabolism	33.03%	-20.30%
Fat Metabolism	32.86%	-20.86%
Carbohydrate Metabolism	32.80%	19.78%
Immune Metabolites	32.21%	-32.21%
Liver Detox Indicators	29.56%	-7.51%
Hepatic Metabolism	29.06%	-5.13%
Citric Acid Cycle	28.99%	8.05%
Anti Oxidant Status	26.47%	23.06%
Connective Tissue	26.12%	-3.93%
Inflammatory Process	25.59%	20.12%
Intestinal Dysbiosis	25.21%	12.71%

Lab Reported out-of-range Values

The following results are out-of-range (as reported by the lab), and should be carefully reviewed.

CA Cycle Entry (209.72%)

A high result for the marker representing the entry into the citric acid may indicate carbohydrate metabolism impairment especially if pyruvate and/or lactate are elevated. Possibilities causing this particular blockade include mercury, arsenic or petrochemical exposure.

Tartarate (160.00%)

Elevated levels have often been associated with elevated yeast infestation but the data does not support that assumption. It is more likely that elevated levels of tartaric acid is found because of dietary sources such as grapes and grape by-products such as wine and juice. Research has also suggested that tartarate may be and antagonist to yeast.

CA Cycle Phase 6 (121.43%)

The last phase of the citric acid cycle, this stage marks the conversion of Fumarate into Malate. When the ratio is low, this may signify that the body is not refilling its losses along the entire cycle. Supplementing with a broad spectrum amino acid along with niacin may help restore balance.

LDL (94.12%)

LDL is the cholesterol rich remnants of the lipid transport vehicle VLDL (very-low density lipoproteins). There have been many studies showing correlations between high levels of LDL and arterial atherosclerosis. Due to the expense of direct LDL measurement, a calculation known as the Friedewald formula is used (Total Cholesterol - HDL Cholesterol - Triglycerides/5). When Triglyceride levels are greater than 400, this method is not accurate. Increased levels are seen in high cholesterol diets, nephrotic syndromes, multiple myeloma, hepatic obstruction or disease, anorexia nervosa, diabetes, chronic renal failure, and premature coronary heart disease.

Foods which may have an adverse affect:

Coconut Milk

Glycine/Serine Ratio (92.71%)

An elevated Glycine/Serine Ratio may indicate poor muscle building, as well as poor glutathione production and impaired phase II detoxification.

Frank

Male / Age: 60

b-Hydroxybutyrate (83.33%)

An increase in the level of this organic acid may be indicative of poor carbohydrate metabolism. Chromium supplementation may be helpful.

Malate (78.57%)

A high level of this organic acid may be indicative of a need for certain nutrients such as niacin and Coenzyme Q10.

Drugs which may have an adverse affect:

Lithium

Collagen Related AA (73.33%)

A high reading of this combination of Proline, Hydroxyproline and Hydroxylysine may be indicative of connective tissue breakdown. Use of vitamin C may be helpful in balancing this ratio as well as vitamins B6, B12 and folate.

Serine - P (-71.67%)

Serine is a key amino acid can be converted to glycine and vice versa. It is crucial in the production of many neurotransmitters. It is also important in DNA synthesis, gluconeogenesis and in the creation of many hormones and enzymes. A low result may be indicative of a deficit in acetylcholine synthesis, or methionine metabolism.

Glucose (61.76%)

Glucose, formed by the digestion of carbohydrates and the conversion of glycogen by the liver, is the primary source of energy for most cells. Insulin, glucagon, thyroid hormone, liver enzymes, and adrenal hormones regulate it. It is elevated in diabetes, liver disease, obesity, pancreatitis, steroids, stress, or diet.

Drugs which may have an adverse affect:

Acetaminophen, Acetazolamide, ACTH, Albuterol, Amitriptyline, Aspirin, Chlorpromazine, Cortisone, Dextrothyroxine, Epinephrine, Estrogens, Furosemide, Gemfibrozil, Haloperidol, Hydralazine, Imipramine, Indomethacin, Levodopa, Lithium, Mercaptopurine, Methylodopa, Morphine, Nifedipine, Nitrofurantoin, Phenelzine, Phenylbutazone, Phenytoin, Polythiazide, Pravastatin, Prednisone, Protriptyline, Reserpine

Sulfate (-60.00%)

Phase II liver detoxification may be impaired. Consider adding taurine and glutathione to aid the system in detoxification.

8-Hydroxy-2-deoxyguan (59.09%)

A high reading of 8-Hydroxy-2-deoxyguanosine is an indicator of oxidative DNA damage. A regime of antioxidants as well as restricting fat intake has been suggested to be a way of lowering this component of aging.

Triglycerides (54.70%)

Triglycerides is where most of the stored fat in the body resides. While high triglycerides are clearly associated with coronary heart disease, it is also been shown to be responsive to dietary changes.

Drugs which may have an adverse affect:

Itraconazole, Levothyroxine, Methylodopa, Miconazole, Polythiazide, Propranolol, Tamoxifen

Nutrients which may have an adverse affect:

MCT Oil

Foods which may have an adverse affect:

Bacon, Cholesterol Rich Foods, Chuck Roast, Coconut Cream, Coconut Milk, Dairy Cream, Egg Yolk, Margarine, Sweetbreads

Cholesterol (54.00%)

Cholesterol is a fat, found in the blood which has been reported to be linked, when elevated, to an increased risk of cardiovascular disease. It is not a good independent risk factor but can be helpful in conjunction with HDL (good cholesterol), LDL (bad cholesterol) and the Cholesterol/HDL Ratio in assessing risk for heart disease. High levels may be caused by familial (hereditary) hypercholesterolemia, biliary obstruction, nephrotic syndrome, hypothyroidism, and pregnancy.

Drugs which may have an adverse affect:

Aspirin, Carbamazepine, Chlorpromazine, Clofibrate, Cortisone, Epinephrine, Furosemide, Ibuprofen, Imipramine, Lithium, Methimazole, Miconazole, Paramethadione, Penicillamine, Phenobarbital, Phenylbutazone, Phenytoin, Prednisone, Propranolol, Tamoxifen, Trimethadione, Viomycin

Foods which may have an adverse affect:

Bacon, Cholesterol Rich Foods, Chuck Roast, Coconut Cream, Coconut Milk, Dairy Cream, Egg Yolk, Hydrogenated Fats, Liver Pate, Margarine, Sweetbreads

Frank

Male / Age: 60

Anserine - P (50.00%)

May be due to high dietary intake of poultry or zinc deficiency.

Aspartic Acid - P (-50.00%)

Aspartic acid is a non-essential amino acid made from glutamate utilizing vitamin B6 in this conversion. It is involved in the urea and Krebs cycle (ammonia metabolism and carbohydrate metabolism). An excitatory amino acid, aspartic acid has been studied for the treatment of unipolar depression. This reading may be indicative of the inability to detoxify, especially ammonia. Fatigue may result from low levels.

Bacteria Markers (-50.00%)

A low reading is consistent with health gut flora.

Carnosine - P (50.00%)

May be indicative of zinc deficiency. Genetic deficiency may lead to neurological development problems and sensory polyneuropathy.

Homocystine - P (50.00%)

This may be indicative of a higher risk of coronary heart disease (atherosclerosis), neurological, ocular, or musculo-skeletal disorders.

Drugs which may have an adverse affect:

Methotrexate

Hydroxylysine - P (50.00%)

A high plasma level of hydroxylysine may be indicative of connective and bone tissue breakdown or the use of a blood thinner such as Coumadin. A high level may also be found in a number of degenerative diseases.

Additional Tests

The following additional lab tests may help in diagnosis.

Consider ordering glucose tolerance test.

Rationale: % Status of Glucose is > 50%

Consider ordering homocystine

Rationale: % Status of Triglycerides is > 50%

% Status of Cholesterol is > 50%

Consider ordering glycohemoglobin

Rationale: % Status of Glucose is > 50%

Consider ordering prostate specific antigen (PSA)

Rationale: Age is >= 40

Sex is Male

Nutrition - Detail

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

Nutritional and herbal information contained in this report is based upon research related to imbalances in your chemistry. The recommendations are based upon the information provided, without interpretation. This must be done with the help of a qualified health care professional.

1-CAC Entry Protocol See Nutrition Detail

CAC ENTRY PROTOCOL

When the entry point to the citric acid cycle is blocked, the ability to utilize carbohydrates to produce energy is impaired. The following protocol may be helpful in bringing down this ratio.

B-Complex - 2x daily

Amino Acid Complex - 5 grams 2x daily

CoEnzyme Q10 - 50 mg 2x daily

Alpha Lipoic Acid - 200 mg 2x daily

Vitamin C - 1000 mg 2x daily

For children under the age of 6:

Amino Acid Complex with co-factors - 1/8 tsp 2x daily

Vitamin C - 125 mg 2x daily

CoEnzyme Q10 - 12.5 mg daily

For children between the ages of 6 and 18 use 1/2 the adult dose.

Decreased

Rationale

Normal

Increased

CA Cycle Entry

1-Digestive Enzymes With meals

DIGESTIVE ENZYMES

Digestive enzymes are helpful in situations where there are signs of allergy, nutrient depletion, improper fat, protein or carbohydrate metabolism.

Decreased

Normal

Increased

Glucose
Triglycerides

1-Increase Amino Acid Intake 8-10 grams daily

INCREASE AMINO ACID INTAKE

With this plasma profile, increasing amino acid intake may be necessary.

A balanced amino acid blend is preferable.

Decreased

Normal

Increased

Histidine - P
Serine - P
Taurine - P

Glutamine - P

1-Oral Electrolyte - Sports Formula 2x daily

ORAL ELECTROLYTE

The main electrolytes in the human body are sodium, potassium, phosphorus, calcium, chloride, magnesium and bicarbonate. During illness, the equilibrium present in healthy individuals, is disturbed. A well balanced formula is helpful in restoring a state of equilibrium. A sports formula will have greater levels of bicarbonate yet still keeping the proportion of the other salts in line.

Decreased

Normal

Increased

CO2

1-Pyridoxal-5-Phosphate 2x daily 20 mg

PYRIDOXINE (B6)

B6 function involves many complex interrelated functions around amino acid metabolism. Cell processes involve PLP in immune modulation, fatty acids, steroid hormone, receptors, neurotransmitters, gluconeogenesis, and heme synthesis.

Decreased

Normal

Increased

Cystathionine - P

1-Riboflavin (B2), B12, Folate See nutrition detail

RIBOFLAVIN (B2), B12, FOLATE

Since sarcosine is formed from the conversion of methionine to glycine in the pathway to choline, the following supplementation regime may be beneficial in bring the sarcosine level down as well as helping to metabolize glycine properly

RIBOFLAVIN

Adult: 1x daily 50 mg Children 1x daily 25 mg

VITAMIN B12

Adult: 1000 mcg 2x daily Children: 1000mcg 1x daily

FOLATE

Adult: 800 mcg 2x daily Children 400 mcg 1x daily

Decreased

Normal

Increased

Glycine - P

Sarcosine - P

Nutrition - Detail

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

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	<u>Decreased</u>	<u>Rationale</u> <u>Normal</u>	<u>Increased</u>
<p>1-Saccharomyces boulardii 1-2 capsules with each meal SACCHAROMYCES BOULARDII</p> <p>The beneficial organism S. boulardii is helpful in individuals with a high Dihydroxyphenylpropionate (DHPP) level in their urine.</p>			DHPP
<p>1-Vitamin E and Acai 2x daily 800 IU VITAMIN E</p> <p>Vitamin E is a major antioxidant, scavenging free radicals - enhancing lymphocyte production, increasing nitrogen retention, maintaining cellular integrity, and aiding in the biosynthesis of heme proteins. 8-Hydroxy-2-deoxyguanosine elevation has been equated to excessive oxidative stress which would benefit from Vitamin E supplementation. ACAI</p> <p>Pronounced ah-sigh-ee, this berry found exclusively in the Amazon is considered the most potent antioxidant found in nature. It contains 13 different flavonoids and a broad spectrum of vitamins, minerals and fatty acids. Elevated urine cystine may be indicative of an increased level of inflammation.</p>			8-Hydroxy-2-deoxyguan
<p>2-Betaine HCL 2 tablets at mealtime BETAIN HCl</p> <p>When this pattern of imbalances show up, it may be due to a BCl/betaine deficiency and suggests muscle/collagen catabolism and inadequate synthesis due to inadequate quality and/or quantity of protein.</p>			3-Methylhistidine - P
<p>2-Glycine 2x daily 500 mg GLYCINE</p> <p>Glycine is an important amino acid and it is helpful in lowering the levels of Benzoate and Hippurate.</p>			Hippurate
<p>2-Iodine 2x daily 75 mcg IODINE (I)</p> <p>Iodine is an essential component of the thyroid hormones. Thyroxine, a main component of thyroid function, contains four iodine atoms.</p>			T-3 Uptake
<p>2-Magnesium Citrate or Glycinate 2x daily 150 mg MAGNESIUM (Mg)</p> <p>Second most abundant mineral in intracellular fluid. It helps facilitate Na - K transport and influences Ca levels. It is involved in vasodilation, contraction, as well as cardiac and skeletal muscle cells. Required in over 300 enzymes, temperature control, neuronal homeostasis and has a profound effect on cardiac physiology</p>			Ethanolamine - P

Nutrition - Detail

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

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2-Magnesium, B6 & Manganese 2x daily see details

MAGNESIUM (Mg)

250 mg

Second most abundant cation in intracellular fluid. It helps facilitate Na - K transport and influences Ca levels. It is involved in vasodilation, contraction, as well as cardiac and skeletal muscle cells. Required in over 300 enzymes, temperature control, neuronal homeostasis and has a profound effect on cardiac physiology.

PYRIDOXINE (B6)

50 mg

B6 function involves many complex interrelated functions around amino acid metabolism. Cell processes involve PLP in immune modulation, fatty acids, steroid hormone, receptors, neurotransmitters, gluconeogenesis, and heme synthesis.

MANGANESE (Mn)

15 mg

Concentrated in mitochondria, it stimulates the synthesis of cholesterol and fatty acids. Associated with a large number of enzymes in numerous areas of metabolism. Improves glucose tolerance, neurotransmission, vestibular and neuromuscular function.

Rationale

Decreased

Serine - P

Normal

Threonine - P
Phosphoserine - P

Increased

2-Vitamin C 1x daily 1000 mg

VITAMIN C

Water-soluble vitamin essential for the synthesis and maintenance of collagen as well as body tissue cells, cartilage, bones, teeth, skin and tendons. Increases protection mechanism of the immune system. Also improves iron and calcium absorption as well as trace mineral utilization.

Decreased

W.B.C.

Normal

LDH
Alkaline Phosphatase

Increased

LDL
Triglycerides

2-Zinc and Pyridoxine (B6) 1x daily see details

ZINC (Zn)

25 mg

Active in the structure and function of biomembranes. Involved in more than 200 key enzymes including carbohydrate metabolism, connective tissue metabolism, T-cell function and prostaglandin secretion.

PYRIDOXINE (B6)

50 mg

B6 function involves many complex interrelated functions around amino acid metabolism. Cell processes involve PLP in immune modulation, fatty acids, steroid hormone, receptors, neurotransmitters, gluconeogenesis, and heme synthesis.

Decreased

a-Amino-N-Butyric Acid - P

Normal

Phreonine - P

Increased

2-Zinc Citrate 2x daily 50 mg

ZINC (Zn)

Active in the structure and function of biomembranes. Involved in more than 200 key enzymes including carbohydrate metabolism, connective tissue metabolism, T-cell function and prostaglandin secretion.

Decreased

Normal

b-Alanine - P
1-Methylhistidine - P

Increased

Anserine - P

3-Calcium 1x daily 800 mg

CALCIUM (Ca)

An important mineral partly responsible for cell membrane structure and function which is required for cardiac contraction, regulates hormones, heart respiration, cell division and body fluid bufferings. It is also critical in the building of strong and healthy bones.

Decreased

Calcium

Normal

Iron, Total

Increased

Nutrition - Detail

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

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H - **Billberry** 1 - 3 times daily

BILBERRY

Billberry (*Vaccinium myrtillus*) is an herb often used for the control of insulin levels and may help halt or prevent macular degeneration. It has also been reported to be effective in lowering triglyceride levels. As with any herb, caution should be taken with its use. Bilberry also may interfere with iron absorption.

Decreased

Rationale

Normal

Iron, Total

Increased

Glucose
Triglycerides

H - **Garlic** 1 - 3 times daily

GARLIC

Garlic's use has been reported to be beneficial in lowering blood lipid (fat) levels. May cause unwanted bodily odors. As with any herb, caution should be taken with its use.

Decreased

Normal

Increased

LDL
Cholesterol

H - **Ginseng (Panax)** 1 - 3 times daily

GINSENG

Also known as Korean Ginseng (*Panax ginseng*), this herb has shown benefits to those suffering from fatigue, stress, compromised immune systems and diabetes. As with any herb, caution should be taken with its use. Women who experience breast tenderness should discontinue its use.

Decreased

Normal

Increased

Glucose

H - **Green Tea** 1 - 3 times daily Can be used as a drink

GREEN TEA

Green tea has been extensively reported to be very beneficial in the prevention of many forms of cancer as well as an potent antioxidant. Caution should be used when consuming green tea as it may contain caffeine. As with any herb, caution should be taken with its use.

Decreased

Normal

Increased

Anion Gap
Cholesterol

AVOID THE FOLLOWING SUPPLEMENTS

AVOID Creatine

CREATINE

Creatine is supportive of nitrogen retention especially in states of catabolism. Synthesized from arginine and glycine in the kidney, creatine is methylated in the liver to form creatine and ultimately creatinine in muscle.

Decreased

Normal

Increased

Creatinine

AVOID MCT Oil Prescription only

MCT OILS (MEDIUM CHAIN TRIGLYCERIDES)

Saturated fatty acids that are 6 to 12 carbons long. They are absorbed easily because of the greater solubility due to their smaller molecular size.

Decreased

Normal

Increased

Triglycerides

AVOID Selenium

SELENIUM (Se)

Cofactor in glutathione peroxidase, in detoxification of peroxides, free radicals and thyroid hormone deionases.

Decreased

Normal

Increased

Thyroxine (T4)

T-3 Uptake

Drug Interactions

Frank

Foundational Wellness Profile Date: 5/25/2004

Male / Age: 60

Drugs listed below tend to further aggravate elements of blood chemistry that are out of range (H or L). The (#) after each drug denotes the number of times that drug is flagged as being potentially harmful.

ACTH	Acetaminophen(2)	Acetazolamide(3)	Acyclovir(2)
Albuterol(2)	Allopurinol(2)	Amantadine	Amitriptyline(2)
Ampicillin(2)	Aspirin	Aspirin(6)	Busulfan
Carbamazepine(5)	Chlorpromazine(4)	Clindamycin(2)	Clofibrate(3)
Cortisol	Cortisone(3)	Desipramine(2)	Dextrothyroxine
Diazepam	Epinephrine(2)	Erythromycin(2)	Estrogens
Fluorides(3)	Fluphenazine(2)	Furosemide(4)	Gemfibrozil
Gentamicin(2)	Griseofulvin(2)	Haloperidol(3)	Hydralazine(2)
Hydrocortisone	Hydroxyurea(3)	Ibuprofen(4)	Imipramine(7)
Indomethacin(4)	Insulin	Itraconazole(2)	Kanamycin(3)
Ketocanazole	Levodopa(2)	Levothyroxine	Lincomycin
Lithium(5)	Lovastatin	MAO Inhibitors(3)	Mannitol
Mercaptopurine(2)	Methimazole(2)	Methotrexate(3)	Methyldopa(6)
Miconazole(3)	Morphine	Naproxen(2)	Neomycin(3)
Nifedipine(2)	Nitrofurantoin(4)	Paramethadione(4)	Paromomycin
Penicillamine(5)	Penicillin(3)	Phenelzine(2)	Phenobarbital(4)
Phenylbutazone(5)	Phenytoin(6)	Piroxicam(2)	Polythiazide(3)
Pravastatin	Prednisone(7)	Procainamide(2)	Procarbazine
Propranolol(2)	Protriptyline(3)	Ramipril	Reserpine(3)
Rifampin(3)	Salicylates	Salicylates	Steroids
Streptomycin(3)	Sulfamethizole	Sulfamethoxazole(2)	Sulfasalazine(2)
Sulfisoxazole(2)	Tamoxifen(4)	Tetracycline(5)	Triameterene(4)
Trimethadione(4)	Valproic Acid(2)	Vancomycin(2)	Viomycin(3)

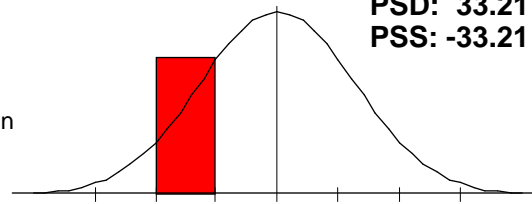
Frank

Male / Age: 60

Ammonia/Energy

Arginine - P[L], Threonine - P, Glycine - P[L], Serine - P[L],
 a-Amino adipic Acid - P, Asparagine - P[L], Aspartic Acid - P[L],
 Citrulline - .

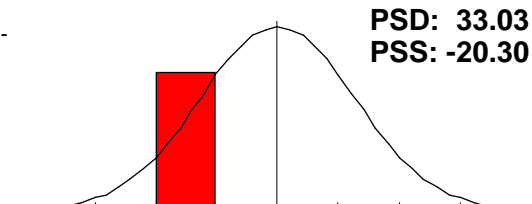
A panel profile such as this may be indicative of inadequate protein intake, poor absorption or poor quality protein intake.



CNS Metabolism

Arginine - P[L], Tryptophan - P[H], GABA - P, Glycine - P[L], Serine -
 P[L], Taurine - P[L], Aspartic Acid - P[L], Glutamine - P, Ethanolami.

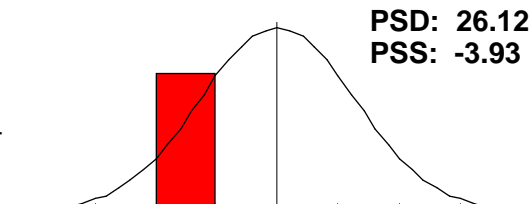
The panel profile seen here may be indicative of poor central nervous system functioning including memory loss, fatigue, poor concentration.



Connective Tissue

Leucine - P, Methionine - P[L], Valine - P[L], Cystine - P,
 Hydroxylysine - P[H], Hydroxyproline - P, 3-Methylhistidine - P[H],
 Proline - P[.

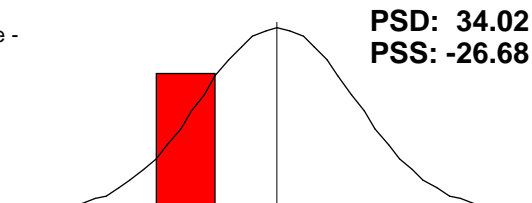
A profile such as this may be indicative of poor collagen and other tissue formation.



Essential Amino Acid

Arginine - P[L], Histidine - P[L], Isoleucine - P[L], Leucine - P, Lysine -
 P[L], Methionine - P[L], Phenylalanine - P[L], Threonine - P, Tr.

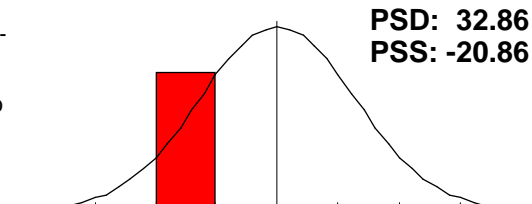
The panel profile seen here indicates a low density of essential amino acids. Since they cannot be synthesized in the human body, these building blocks must be taken in via diet or supplements.



Fat Metabolism

Arginine - P[L], Isoleucine - P[L], Leucine - P, Valine - P[L], Taurine -
 P[L], Glutamine - P, Sarcosine - P[H].

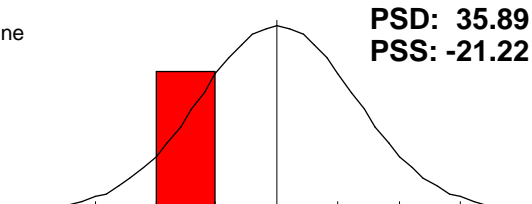
A panel profile such as this may indicate an inability of the body to properly metabolize dietary fats. Check for dysbiosis, or try supplementation with lipase digestive enzymes as well as broad spectrum amino acids.



Gluconeogen

Threonine - P, Tryptophan - P[H], Glycine - P[L], Serine - P[L], Alanine
 - P.

This panel profile may be indicative of hypoglycemia or poor dietary protein intake.



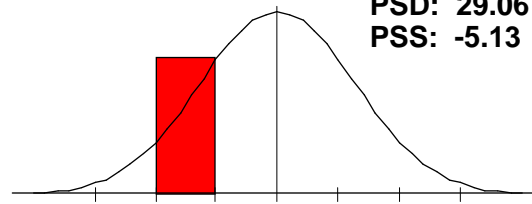
Frank

Male / Age: 60

Hepatic Metabolism

Methionine - P[L], Taurine - P[L], Glutamine - P, Cystine - P,
Cystathionine - P[H], Homocystine - P[H], Alanine - P.

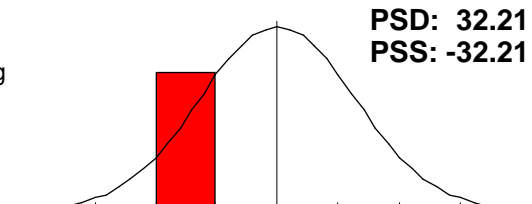
A panel profile such as this may be indicative of an underfunctioning liver or poor dietary protein intake.



Immune Metabolites

Arginine - P[L], Threonine - P, Glutamine - P, Ornithine - P[L].

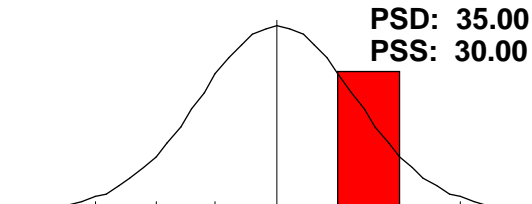
A panel profile such as this may be indicative of a poor functioning immune system or low dietary intake of protein.



Muscle Metabolites

Anserine - P[H], Carnosine - P[H], 1-Methylhistidine - P,
3-Methylhistidine - P[H].

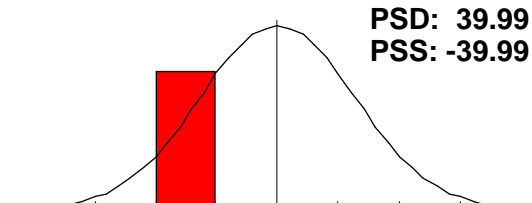
This panel profile may be indicative of abnormal protein metabolism especially if 1-methylhistidine is elevated.



Neuroendocrine Met.

GABA - P, Glycine - P[L], Serine - P[L], Taurine - P[L], Tyrosine - P.

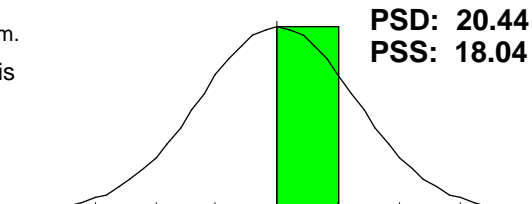
This panel profile may be indicative of an underfunctioning endocrine system or poor dietary intake of protein.



Adrenal Function

Cholesterol[H], Eosinophils[H], Eosinophil Count, Potassium, Sodium.

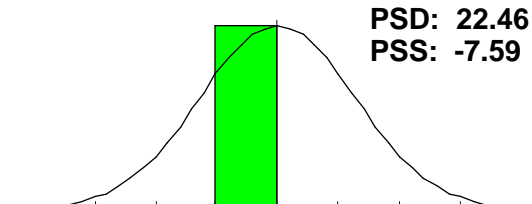
This panel is meant to assess adrenal function. A deficiency in this panel may indicate adrenal stress. The deviation was below 25% so no abnormalities were found.



Allergy

Eosinophils[H], Globulin, Lymphocytes[L], Monocytes, W.B.C.[L].

This panel is used to assess the individual's response to potential allergens. Abnormalities in this panel may indicate the need for additional allergy testing. The deviation was below 25% so no abnormalities were found.



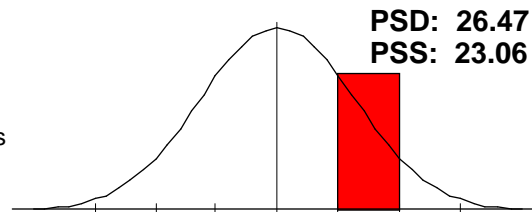
Frank

Male / Age: 60

Anti Oxidant Status

Anion Gap[H], Bilirubin, Total, Chloride, Cholesterol[H], Glucose[H], Iron, Total.

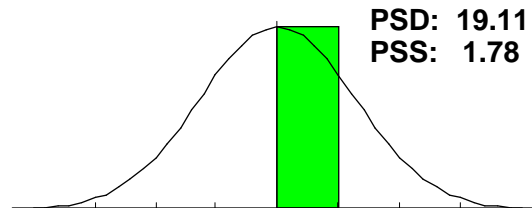
This panel profile may indicate that the patient needs to increase their intake of antioxidants and make appropriate lifestyle changes (smoking, alcohol, reduce stress, etc.). A varied, broad spectrum of antioxidants is preferable to one or two alone.



Athletic Potential

B.U.N./Creatinine Ratio[L], Cholesterol[H], CO2[L], Creatinine[H], LDH, Potassium, Protein, Total, Sodium, HDL-Cholesterol.

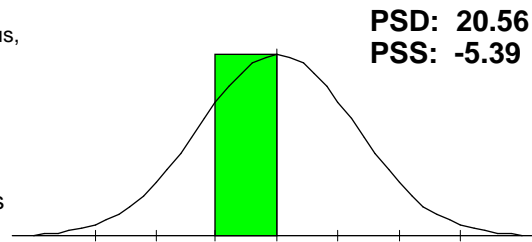
This panel is used to help assess athletic potential. Keeping this panel in a normal range may be helpful in improving athletic performance and reducing the risk of injury. The deviation was below 25% so no abnormalities were found.



Bone/Joint

Albumin, Alkaline Phosphatase, Calcium[L], Neutrophils, Phosphorus, Protein, Total, Uric Acid.

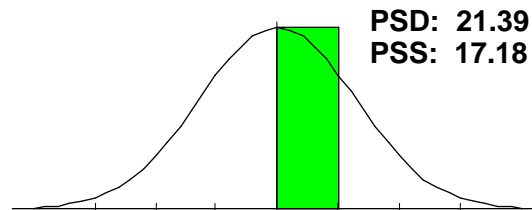
This panel may be helpful in assessing bone and joint health. Keeping the elements of this panel in a normal range may be helpful in reducing the risk of osteoporosis and other bone and joint disorders. The deviation was below 25% so no abnormalities were found.



Cardiac Marker

Cholesterol[H], GGT, Iron, Total, LDH, sGOT, Triglycerides[H], Uric Acid, HDL-Cholesterol, LDL[H].

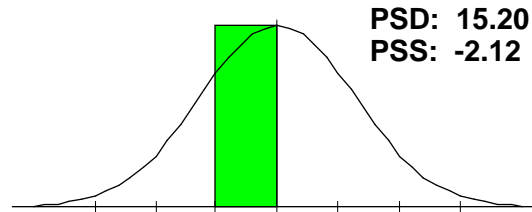
This panel may be helpful in assessing cardiovascular disease risk. Keeping the elements in this panel in a normal range is important in reducing the risk of CVD. The deviation was below 25% so no abnormalities were found.



Cellular Distortions

Alkaline Phosphatase, Anion Gap[H], GGT, Iron, Total, LDH, Neutrophils, W.B.C.[L].

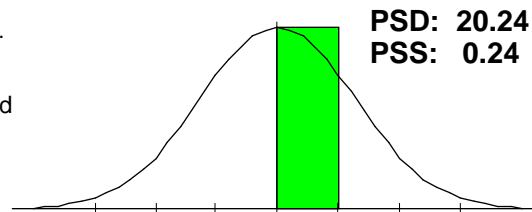
This panel may be helpful in determining the ability of the body to properly produce healthy cells. The deviation was below 25% so no abnormalities were found.



Differential

Basophils, Eosinophils[H], Lymphocytes[L], Monocytes, Neutrophils.

This panel may be helpful in assessing immune system health. Excesses or deficiencies in this panel may indicate a compromised immune system. The deviation was below 25% so no abnormalities were found.



Panel/Subset Report

Foundational Wellness Profile Date: 5/25/2004

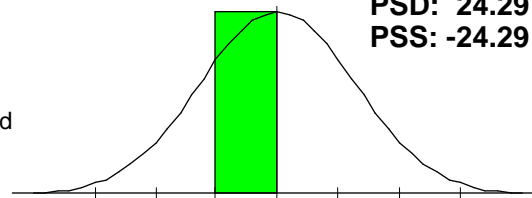
Frank

Male / Age: 60

Differential Count

Basophil Count, Eosinophil Count, Lymphocyte Count[L], Monocyte Count[L], Neutrophil Count.

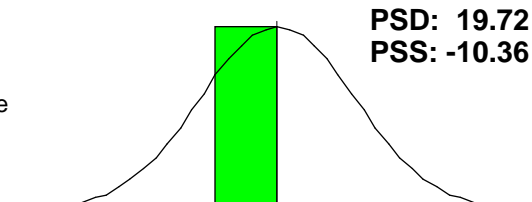
This panel may be helpful in assessing immune system health. Excesses or deficiencies in this panel may indicate a compromised immune system. The deviation was below 25% so no abnormalities were found.



Electrolyte

Calcium[L], Chloride, CO2[L], Phosphorus, Potassium, Sodium.

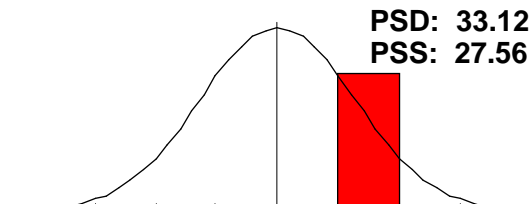
This panel is a representation of electrolyte balance in blood. Balance is critical in maintaining and achieving optimal health. The deviation was below 25% so no abnormalities were found.



Gastrointest. Function

Anion Gap[H], Chloride, Cholesterol[H], CO2[L], Monocytes, Potassium, Sodium, Triglycerides[H], LDL[H].

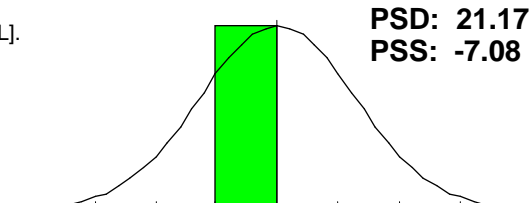
This panel profile indicates the need for further evaluation of gastrointestinal integrity, digestion and absorption. Check for dysbiosis, food allergies or "leaky gut" syndrome.



Hematology

Hematocrit, Hemoglobin, MCH, MCHC[L], MCV[H], R.B.C., W.B.C.[L].

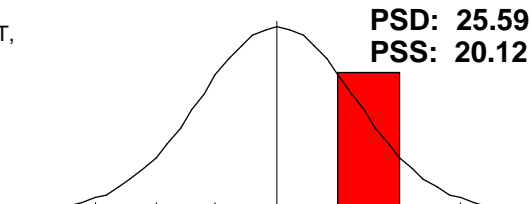
The hematology panel assesses the production of red blood cells and their function. The deviation was below 25% so no abnormalities were found.



Inflammatory Process

Eosinophils[H], Globulin, LDH, Neutrophils, Potassium, sGOT, sGPT, Triglycerides[H], Uric Acid, LDL[H].

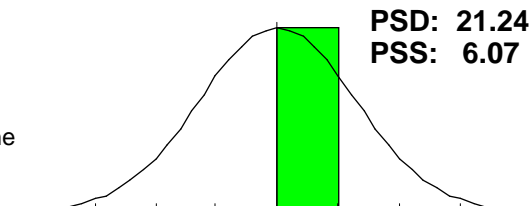
This panel profile may indicate the presence of an ongoing inflammatory process. Consider increasing B-complex vitamins and having the patient avoid saturated and trans fats as well.



Kidney Function

Albumin, B.U.N., B.U.N./Creatinine Ratio[L], Chloride, CO2[L], Creatinine[H], Glucose[H], Potassium, Protein, Total, Sodium.

This panel may be helpful in assessing kidney function. It is important to keep the elements of this subset in balance to help the body eliminate waste material. The deviation was below 25% so no abnormalities were found.



Panel/Subset Report

Foundational Wellness Profile Date: 5/25/2004

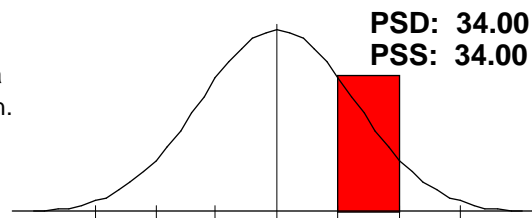
Frank

Male / Age: 60

Lipid

Cholesterol[H], Triglycerides[H], HDL-Cholesterol, LDL[H].

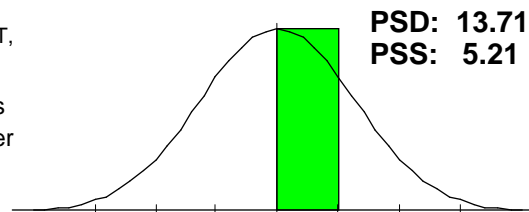
The panel profile seen here suggests that the patient may be at a greater risk for coronary heart disease than the general population. A dietary evaluation should be undertaken as well to educate the patient about saturated and trans fats.



Liver Function

Albumin, Alkaline Phosphatase, Bilirubin, Total, Cholesterol[H], GGT, Protein, Total, sGOT, sGPT.

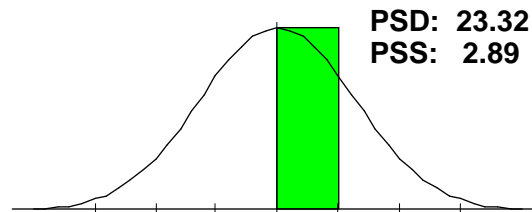
Assessing liver function is important in determining the individual's ability to detoxify itself as well as processing amino acids and other important biological processes. The deviation was below 25% so no abnormalities were found.



Nitrogen

B.U.N., B.U.N./Creatinine Ratio[L], Creatinine[H], Uric Acid.

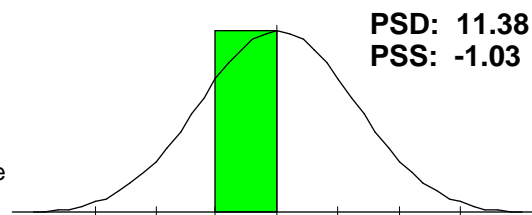
Nitrogen is an important element in achieving optimal wellness. The elements in this panel are important in determining nitrogen competency. The deviation was below 25% so no abnormalities were found.



Protein

A/G Ratio, Albumin, Globulin, Protein, Total, Protein/Globulin Ratio.

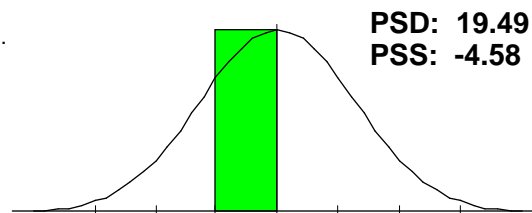
Proteins are the basic building blocks of hormones, muscle, neurotransmitters, immune systems responses and more. Assessing their competency is crucial in achieving optimal wellness. The deviation was below 25% so no abnormalities were found.



Pulmonary Function

Anion Gap[H], Calcium[L], CO2[L], LDH, Potassium, sGOT, Sodium.

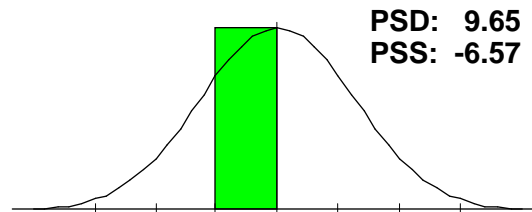
This panel may be helpful in assessing lung and respiratory function. The deviation was below 25% so no abnormalities were found.



Ratios

A/G Ratio, B.U.N./Creatinine Ratio[L], Calcium/Phosphorus Ratio, Sodium/Potassium Ratio, Protein/Globulin Ratio.

This panel may be helpful in determining the general balance of the overall chemistry of the individual. The deviation was below 25% so no abnormalities were found.



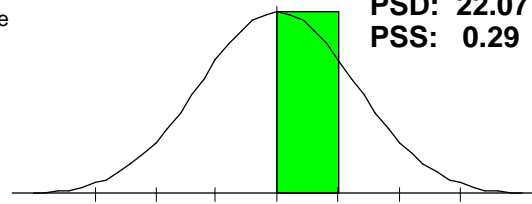
Frank

Male / Age: 60

Thyroid

Thyroxine (T4)[L], T-3 Uptake[H], Free T4 Index (T7), Ultra-Sensitive TSH.

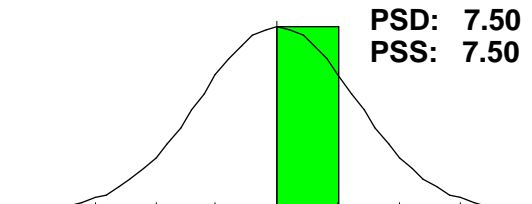
This panel may be helpful in determining the overall health of the thyroid gland. The deviation was below 25% so no abnormalities were found.



Amino Acid Catabolism

a-Ketoisovalerate, a-Ketoisocaproate, a-Keto-b-methylvalerate.

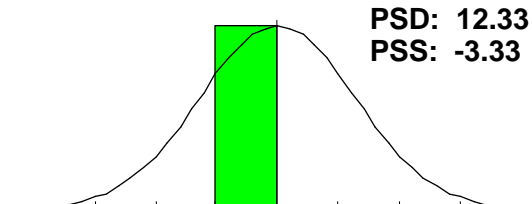
A normal reading in this panel suggest proper amino acid stores.



B-Complex Markers

b-Hydroxyisovalerate, a-Ketoisovalerate, a-Ketoisocaproate, a-Keto-b-methylvalerate, Methylmalonate[L].

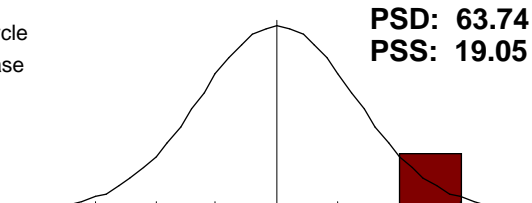
A normal panel profile such as this is an indicator of adequate intake of B-complex vitamins.



CAC Cycle Ratios

CA Cycle Entry[H], CA Cycle Phase 1, CA Cycle Phase 2[L], CA Cycle Phase 3, CA Cycle Phase 4[L], CA Cycle Phase 5[L], CA Cycle Phase 6[H], C.

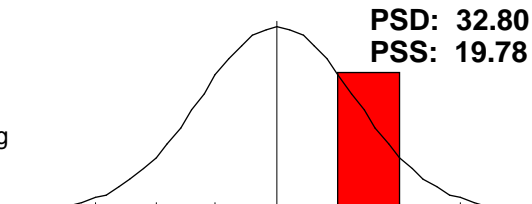
This panel reflects steps of the citric acid cycle. A high reading may be indicative of poor energy production and/or vitamin, mineral and amino acid deficiencies.



Carbohydrate Metabolism

Lactate, Pyruvate, a-Hydroxybutyrate, b-Hydroxybutyrate[H].

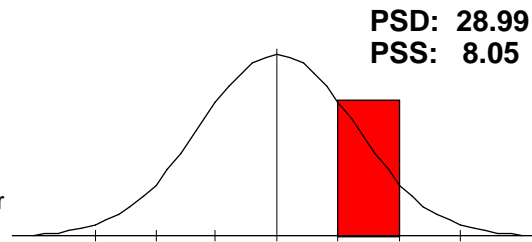
The panel profile seen here may be due to impaired carbohydrate metabolism, inefficient utilization or poor mobilization of carbohydrates. Often, B-complex vitamins are helpful in balancing these results. See Nutritional Support for further details.



Citric Acid Cycle

Citrate, cis-Aconitate, Isocitrate, a-Ketoglutarate, Succinate[L], Fumarate, Malate[H], Hydroxymethylglutarate[H].

This panel profile result may be due to a breakdown in the Citric Acid Cycle. Supplementation with specific amino acid combinations and precursor vitamins and minerals may help to reverse this imbalance. Review the Nutritional Support section for further details.



Frank

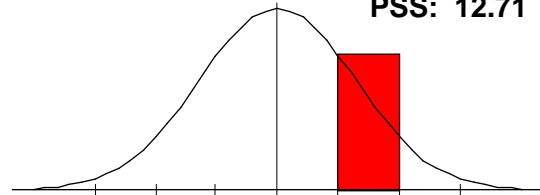
Male / Age: 60

Intestinal Dysbiosis

Hippurate[H], Benzoate, p-Hydroxybenzoate[L],
 p-Hydroxyphenyllactate, Phenylacetate, Phenylpropionate,
 Tricarballoylate, DHPP[H], Citramalate.

This panel profile may be indicative of intestinal dysbiosis. Poor absorption and metabolism of proteins, fats and carbohydrates may occur. A review of potential bacteria, protozoa, Clostridial spp., yeast or fungus may be necessary.

PSD: 25.21
PSS: 12.71

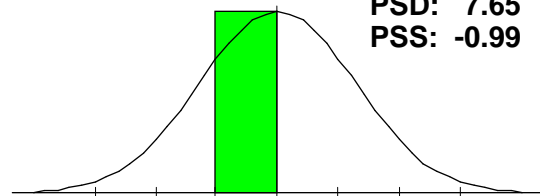


Lipid Metabolism

Adipate, Suberate, Ethylmalonate.

This panel profile is indicative of proper lipid metabolism.

PSD: 7.65
PSS: -0.99

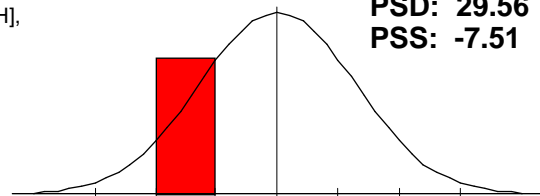


Liver Detox Indicators

2-Methylhippurate, Glucarate[L], P-Hydroxyphenylacetate, Orotate[H],
 Pyroglutamate, Sulfate[L].

A panel profile such as this may indicate that the liver is inefficient in detoxification.

PSD: 29.56
PSS: -7.51

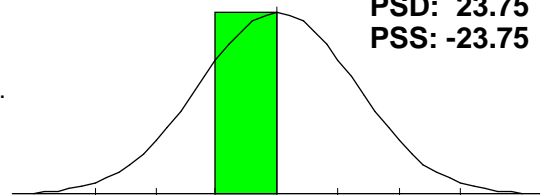


Neurotransmitters

Vanillylmandelate[L], Homovanillate, 5-Hydroxyindoleacetate[L],
 Kynurenate, Quinolinate.

A normal panel profile indicated good neurotransmitter production.

PSD: 23.75
PSS: -23.75



Clinical Correlation

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

This report "MATCHES" clinical observations with the lab test. Elements shown, normal and abnormal, tend to characterize the observation. Highlighted elements are those reported to "MATCH" the characteristics of the clinical observation. Others are NOT matches but are elements in the observation.

Cystathioninuria (270.4) 100.00% (1 of 1)

Decreased

Normal

Increased

25.00 Cystathionine - P

Fatigue/Low Cellular Energy Production () 100.00% (1 of 1)

Decreased

Normal

Increased

-50.00 Aspartic Acid - P

Increased CVD risk () 100.00% (2 of 2)

Decreased

Normal

Increased

-38.18 Arginine - P

50.00 Homocystine - P

A blood chemistry profile that correlates to these readings can put an individual at an increased risk for cardiovascular disease. Careful evaluation by a specialist may be in order.

Mild Hyperammonemia () 100.00% (1 of 1)

Decreased

Normal

Increased

-42.38 Glutamic Acid - P

Potential Excessive Oxidative Damage () 100.00% (1 of 1)

Decreased

Normal

Increased

-49.00 Taurine - P

Potential Rheumatoid Arthritis () 100.00% (1 of 1)

Decreased

Normal

Increased

-31.43 Histidine - P

Tryptophanemia () 100.00% (1 of 1)

Decreased

Normal

Increased

36.67 Tryptophan - P

Tryptophanemia is a genetic trait when there are consistently high levels of plasma tryptophan measured.

Review Cardiovascular Risk Factors () 83.33% (5 of 6)

Decreased

Normal

Increased

1.16 HDL-Cholesterol

54.00 Cholesterol

61.76 Glucose

54.70 Triglycerides

22.41 Uric Acid

94.12 LDL

Review family history or personal history of cardiovascular risk factors such as smoking, excessive alcohol

Clinical Correlation

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

This report "MATCHES" clinical observations with the lab test. Elements shown, normal and abnormal, tend to characterize the observation. Highlighted elements are those reported to "MATCH" the characteristics of the clinical observation. Others are NOT matches but are elements in the observation.

Review Cardiovascular Risk Factors (continued)

intake, high fat diet, and/or sedentary lifestyle.

Ammonia Toxicity/Buildup ()

75.00% (3 of 4)

Decreased

Normal

Increased

-34.55 Isoleucine - P

-50.00 Aspartic Acid - P

-42.38 Glutamic Acid - P

-24.67 Glutamine - P

Comparison Progress Report

Frank

Male / Age: 60

Foundational Wellness Profile Date: 5/25/2004

A "+" change is toward optimal % Status of zero. A "-" change is away from optimal % Status of zero.

	Status % on: 7/15/2003		5/25/2004		+/- change
Glycine/Serine Ratio	34.47	H	92.71	H	- 58.23
Hydroxylysine - P	0.00		50.00	H	- 50.00
Homocystine - P	18.00		50.00	H	- 32.00
GABA - P	70.00	H	-10.00		+ 60.00
Cystathionine - P	75.00	H	25.00	H	+ 50.00
1-Methylhistidine - P	55.00	H	-10.00		+ 45.00
Ethanolamine - P	62.50	H	25.00	H	+ 37.50
a-Aminoadipic Acid - P	50.00	H	-12.50		+ 37.50

Comparison Report

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

The arrow's length is proportional to change. Left to right is increase. Right to left is decrease.
Green is improvement. Red is decline.

		+/-	Status % on:	7/15/2003	5/25/2004
-10.00		55.00	+	1-Methylhistidine - P	55.00 H -10.00
30.00		50.00	+	3-Methylhistidine - P	50.00 H 30.00 H
-12.50		50.00	+	a-Aminoadipic Acid - P	50.00 H -12.50
-30.00		-10.00	-	a-Amino-N-Butyric Acid - P	-10.00 -30.00 L
-24.57		0.00	+	Alanine - P	-24.57 0.00
				Anserine - P	-49.00 L 50.00 H
-49.09		-38.18	+	Arginine - P	-49.09 L -38.18 L
-35.88		-21.76	-	Asparagine - P	-21.76 -35.88 L
				Aspartic Acid - P	-45.83 L -50.00 L
-30.00		-10.00	+	b-Alanine - P	-30.00 L -10.00
				b-Aminoisobutyric Acid - P	0.00 0.00
				Carnosine - P	-49.00 L 50.00 H
-37.27		-24.55	-	Citrulline - P	-24.55 -37.27 L
73.33		90.67	+	Collagen Related AA	90.67 H 73.33 H
25.00		75.00	+	Cystathionine - P	75.00 H 25.00 H
				Cystine - P	-10.00 8.75
25.00		62.50	+	Ethanolamine - P	62.50 H 25.00 H
-10.00		70.00	+	GABA - P	70.00 H -10.00
-42.38		-28.10	-	Glutamic Acid - P	-28.10 L -42.38 L
-44.22		-24.67	+	Glutamine - P	-44.22 L -24.67
-60.22		-46.44	+	Glycine - P	-60.22 L -46.44 L
34.47		92.71	-	Glycine/Serine Ratio	34.47 H 92.71 H
-52.86		-31.43	+	Histidine - P	-52.86 L -31.43 L
18.00		50.00	-	Homocystine - P	18.00 50.00 H
0.00		50.00	-	Hydroxylysine - P	0.00 50.00 H
				Hydroxyproline - P	-13.33 -6.67
				Isoleucine - P	-27.27 L -34.55 L
-24.55		-10.00	+	Leucine - P	-24.55 -10.00
				Lysine - P	-49.33 L -48.67 L
				Methionine - P	-46.00 L -46.00 L
				Ornithine - P	-48.00 L -41.33 L
				Phenylalanine - P	-40.53 L -38.42 L
-24.03		-14.08	-	Phenylalanine/Tyrosine	-14.08 -24.03
-20.00		-3.33	+	Phosphoethanolamine - P	-20.00 -3.33
8.33		16.67	+	Phosphoserine - P	16.67 8.33
-25.93		-16.30	-	Proline - P	-16.30 -25.93 L
-30.00		42.00	-	Sarcosine - P	-30.00 L 42.00 H
				Serine - P	-64.17 L -71.67 L
				Taurine - P	-48.50 L -49.00 L
-48.67		-24.67	+	Threonine - P	-48.67 L -24.67
-26.67		36.67	-	Tryptophan - P	-26.67 L 36.67 H
-38.57		-22.86	+	Tyrosine - P	-38.57 L -22.86
				Valine - P	-26.00 L -31.60 L
				Total Status Deviation	37.50 32.88
				Total Status Skew	-14.79 -9.33

Comparison Progress Report

Frank

Male / Age: 60

Foundational Wellness Profile Date: 5/25/2004

A "+" change is toward optimal % Status of zero. A "-" change is away from optimal % Status of zero.

	Status % on: 7/15/2003	5/25/2004	+/- change
T-3 Uptake	12.67	43.33 H	- 30.67
Basophils	-50.00 L	-16.67	+ 33.33
Basophil Count	-50.00 L	-23.00	+ 27.00

Comparison Report

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

The arrow's length is proportional to change. Left to right is increase. Right to left is decrease.
Green is improvement. Red is decline.

	+/-	Status	% on: 7/15/2003	5/25/2004
			A/G Ratio	6.41 -7.69
-5.00	16.67	-	Albumin	-5.00 16.67
			Alkaline Phosphatase	-22.00 -15.60
28.33	38.33	-	Anion Gap	28.33 H 38.33 H
			B.U.N.	7.14 -11.90
-28.95	-7.02	-	B.U.N./Creatinine Ratio	-7.02 -28.95 L
-50.00	-23.00	+	Basophil Count	-50.00 L -23.00
-50.00	-16.67	+	Basophils	-50.00 L -16.67
-22.73	-4.55	+	Bilirubin, Total	-22.73 -4.55
-45.24	-36.96	-	Calcium	-36.96 L -45.24 L
-21.18	-2.58	+	Calcium/Phosphorus Ratio	-21.18 -2.58
11.54	19.23	-	Chloride	11.54 19.23
			Cholesterol	53.00 H 54.00 H
			CO2	-25.00 L -25.00 L
16.67	30.00	-	Creatinine	16.67 30.00 H
			Eosinophil Count	-7.00 -6.00
			Eosinophils	33.33 H 33.33 H
			Free T4 Index (T7)	-18.75 -17.57
-14.62	-3.85	+	GGT	-14.62 -3.85
			Globulin	-18.75 -13.33
52.27	61.76	-	Glucose	52.27 H 61.76 H
			HDL-Cholesterol	-3.49 1.16
			Hematocrit	-1.67 -4.44
			Hemoglobin	-14.00 -14.00
-22.17	-7.39	+	Iron, Total	-22.17 -7.39
-14.00	-4.38	-	LDH	-4.38 -14.00
			LDL	101.47 H 94.12 H
			Lymphocyte Count	-35.55 L -38.95 L
-33.33	-23.33	-	Lymphocytes	-23.33 -33.33 L
			MCH	28.19 H 21.49
-40.37	-31.42	+	MCHC	-40.37 L -31.42 L
27.80	39.29	+	MCV	39.29 H 27.80 H
			Monocyte Count	-31.00 L -30.22 L
			Monocytes	3.85 3.85
			Neutrophil Count	-26.03 L -23.29
6.00	14.00	-	Neutrophils	6.00 14.00
-20.00	-5.00	-	Phosphorus	-5.00 -20.00
			Potassium	0.00 5.00
-18.00	-10.00	+	Protein, Total	-18.00 -10.00
9.23	23.33	+	Protein/Globulin Ratio	23.33 9.23
			R.B.C.	-23.89 -20.56
			sGOT	-10.00 5.00
-17.50	0.00	+	sGPT	-17.50 0.00
			Sodium	-8.33 3.85
12.67	43.33	-	T-3 Uptake	12.67 43.33 H
-26.00	-16.25	-	Thyroxine (T4)	-16.25 -26.00 L
41.95	54.70	-	Triglycerides	41.95 H 54.70 H
			Ultra-Sensitive TSH	2.58 1.38
5.17	22.41	-	Uric Acid	5.17 22.41
			W.B.C.	-30.00 L -28.46 L
			Total Status Deviation	21.66 21.45
			Total Status Skew	-3.10 0.53

Comparison Progress Report

Frank

Male / Age: 60

Foundational Wellness Profile Date: 5/25/2004

A "+" change is toward optimal % Status of zero. A "-" change is away from optimal % Status of zero.

	Status % on: 7/15/2003	5/25/2004	+/- change
Tartarate	17.27	160.00 H	- 142.73
CA Cycle Phase 6	-16.67	121.43 H	- 104.76
b-Hydroxybutyrate	-21.11	83.33 H	- 62.22
Malate	-21.43	78.57 H	- 57.14
5-Hydroxyindoleacetate	-7.38	-48.36 L	- 40.98
8-Hydroxy-2-deoxyguan	31.82 H	59.09 H	- 27.27
Benzoate	4298.82 H	-11.76	+4287.06
Lactate	-57.78 L	-18.89	+ 38.89
Quinolate	-50.00 L	-12.86	+ 37.14
Isocitrate	-48.33 L	-16.67	+ 31.67
Citramalate	30.00 H	1.67	+ 28.33
CA Cycle Entry	237.22 H	209.72 H	+ 27.50
Kynurenate	-32.50 L	-5.00	+ 27.50
p-Hydroxybenzoate	68.18 H	-40.91 L	+ 27.27

Comparison Report

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

The arrow's length is proportional to change. Left to right is increase. Right to left is decrease.
Green is improvement. Red is decline.

		+/-	Status % on:	7/15/2003	5/25/2004	
				2-Methylhippurate	16.22	16.22
-48.36		-7.38		- 5-Hydroxyindoleacetate	-7.38	-48.36 L
31.82		59.09		- 8-Hydroxy-2-deoxyguan	31.82 H	59.09 H
8.33		26.19		+ Adipate	26.19 H	8.33
3.64		21.82		- a-Hydroxybutyrate	3.64	21.82
-14.29		0.00		+ a-Keto-b-methylvalerate	-14.29	0.00
-2.50		22.14		- a-Ketoglutarate	-2.50	22.14
				a-Ketoisocaproate	-10.00	10.00
12.50		25.00		+ a-Ketoisovalerate	25.00 H	12.50
-11.76		4298.82		+ Benzoate	4298.82 H	-11.76
-21.11		83.33		- b-Hydroxybutyrate	-21.11	83.33 H
				b-Hydroxyisovalerate	6.36	-10.00
209.72		237.22		+ CA Cycle Entry	237.22 H	209.72 H
				CA Cycle Return	46.09 H	-43.19 L
-7.35		27.94		+ cis-Aconitate	27.94 H	-7.35
1.67		30.00		+ Citramalate	30.00 H	1.67
-18.16		4.72		- Citrate	4.72	-18.16
-12.50		25.00		- DHPP	-12.50	25.00 H
2.63		13.16		+ D-Lactate	13.16	2.63
				Ethylmalonate	4.17	1.67
				Formiminoglutamic Acid	-6.25	-12.50
20.00		30.00		+ Fumarate	30.00 H	20.00
-47.99		-34.56		+ Glucarate	-47.99 L	-34.56 L
-43.93		25.00		+ Hippurate	-43.93 L	25.00 H
-33.64		-24.55		+ Homovanillate	-33.64 L	-24.55
-3.23		27.42		- Hydroxymethylglutarate	-3.23	27.42 H
-20.93		6.98		+ Indican	-20.93	6.98
-48.33		-16.67		+ Isocitrate	-48.33 L	-16.67
-32.50		-5.00		+ Kynurenate	-32.50 L	-5.00
-57.78		-18.89		+ Lactate	-57.78 L	-18.89
-21.43		78.57		- Malate	-21.43	78.57 H
-29.17		-6.25		- Methylmalonate	-6.25	-29.17 L
				Orotate	31.82 H	31.82 H
				Phenylacetate	-28.57 L	-21.43
				Phenylpropionate	-7.14	-7.14
-40.91		68.18		+ p-Hydroxybenzoate	68.18 H	-40.91 L
				P-Hydroxyphenylacetate	-14.44	-16.67
				p-Hydroxyphenyllactate	17.12	23.97
18.12		30.00		+ Pyroglutamate	30.00 H	18.12
				Pyruvate	3.57	-7.14
-50.00		-12.86		+ Quinolininate	-50.00 L	-12.86
-12.96		31.48		+ Suberate	31.48 H	-12.96
-41.58		-30.53		- Succinate	-30.53 L	-41.58 L
-60.00		50.00		- Sulfate	50.00 H	-60.00 L
17.27		160.00		- Tartarate	17.27	160.00 H
3.85		26.92		+ Tricarballylate	26.92 H	3.85
-28.00		-16.00		- Vanillylmandelate	-16.00	-28.00 L
-30.00		-20.00		+ Xanthurenate	-30.00 L	-20.00
				Total Status Deviation	97.00	31.59
				Total Status Skew	64.21	-0.12

Panel/Subset Comparison Report

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

Ammonia/Energy	7/15/2003		5/25/2004		+/-	
Arginine - P	-49.09	L	-38.18	L	+	-49.09 → -38.18
Threonine - P	-48.67	L	-24.67		+	-48.67 → -24.67
Glycine - P	-60.22	L	-46.44	L	+	-60.22 → -46.44
Serine - P	-64.17	L	-71.67	L		
a-Amino adipic Acid - P	50.00	H	-12.50		+	-12.50 ← 50.00
Asparagine - P	-21.76		-35.88	L	-	-35.88 ← -21.76
Aspartic Acid - P	-45.83	L	-50.00	L		
Citrulline - P	-24.55		-37.27	L	-	-37.27 ← -24.55
Glutamic Acid - P	-28.10	L	-42.38	L	-	-42.38 ← -28.10
Glutamine - P	-44.22	L	-24.67		+	-44.22 → -24.67
Ornithine - P	-48.00	L	-41.33	L		
a-Amino-N-Butyric Acid - P	-10.00		-30.00	L	-	-30.00 ← -10.00
Alanine - P	-24.57		0.00		+	-24.57 → 0.00
b-Alanine - P	-30.00	L	-10.00		+	-30.00 → -10.00
PSS / PSD	-32.08 / 39.23		-33.21 / 33.21			

CNS Metabolism	7/15/2003		5/25/2004		+/-	
Arginine - P	-49.09	L	-38.18	L	+	-49.09 → -38.18
Tryptophan - P	-26.67	L	36.67	H	-	-26.67 → 36.67
GABA - P	70.00	H	-10.00		+	-10.00 ← 70.00
Glycine - P	-60.22	L	-46.44	L	+	-60.22 → -46.44
Serine - P	-64.17	L	-71.67	L		
Taurine - P	-48.50	L	-49.00	L		
Aspartic Acid - P	-45.83	L	-50.00	L		
Glutamine - P	-44.22	L	-24.67		+	-44.22 → -24.67
Ethanolamine - P	62.50	H	25.00	H	+	25.00 ← 62.50
Phosphoethanolamine - P	-20.00		-3.33		+	-20.00 → -3.33
Phosphoserine - P	16.67		8.33		+	8.33 ← 16.67
PSS / PSD	-19.05 / 46.17		-20.30 / 33.03			

Connective Tissue	7/15/2003		5/25/2004		+/-	
Leucine - P	-24.55		-10.00		+	-24.55 → -10.00
Methionine - P	-46.00	L	-46.00	L		
Valine - P	-26.00	L	-31.60	L		
Cystine - P	-10.00		8.75			
Hydroxylysine - P	0.00		50.00	H	-	0.00 → 50.00
Hydroxyproline - P	-13.33		-6.67			
3-Methylhistidine - P	50.00	H	30.00	H	+	30.00 ← 50.00
Proline - P	-16.30		-25.93	L	-	-25.93 ← -16.30
PSS / PSD	-10.77 / 23.27		-3.93 / 26.12			

Panel/Subset Comparison Report

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

Essential Amino Acid	7/15/2003	5/25/2004	+/-	
Arginine - P	-49.09 L	-38.18 L	+	-49.09 → -38.18
Histidine - P	-52.86 L	-31.43 L	+	-52.86 → -31.43
Isoleucine - P	-27.27 L	-34.55 L		
Leucine - P	-24.55	-10.00	+	-24.55 → -10.00
Lysine - P	-49.33 L	-48.67 L		
Methionine - P	-46.00 L	-46.00 L		
Phenylalanine - P	-40.53 L	-38.42 L		
Threonine - P	-48.67 L	-24.67	+	-48.67 → -24.67
Tryptophan - P	-26.67 L	36.67 H	-	-26.67 → 36.67
Valine - P	-26.00 L	-31.60 L		
PSS / PSD	-39.10 / 39.10	-26.68 / 34.02		

Fat Metabolism	7/15/2003	5/25/2004	+/-	
Arginine - P	-49.09 L	-38.18 L	+	-49.09 → -38.18
Isoleucine - P	-27.27 L	-34.55 L		
Leucine - P	-24.55	-10.00	+	-24.55 → -10.00
Valine - P	-26.00 L	-31.60 L		
Taurine - P	-48.50 L	-49.00 L		
Glutamine - P	-44.22 L	-24.67	+	-44.22 → -24.67
Sarcosine - P	-30.00 L	42.00 H	-	-30.00 → 42.00
PSS / PSD	-35.66 / 35.66	-20.86 / 32.86		

Gluconeogen	7/15/2003	5/25/2004	+/-	
Threonine - P	-48.67 L	-24.67	+	-48.67 → -24.67
Tryptophan - P	-26.67 L	36.67 H	-	-26.67 → 36.67
Glycine - P	-60.22 L	-46.44 L	+	-60.22 → -46.44
Serine - P	-64.17 L	-71.67 L		
Alanine - P	-24.57	0.00	+	-24.57 → 0.00
PSS / PSD	-44.86 / 44.86	-21.22 / 35.89		

Hepatic Metabolism	7/15/2003	5/25/2004	+/-	
Methionine - P	-46.00 L	-46.00 L		
Taurine - P	-48.50 L	-49.00 L		
Glutamine - P	-44.22 L	-24.67	+	-44.22 → -24.67
Cystine - P	-10.00	8.75		
Cystathionine - P	75.00 H	25.00 H	+	25.00 ← 75.00
Homocystine - P	18.00	50.00 H	-	18.00 → 50.00
Alanine - P	-24.57	0.00	+	-24.57 → 0.00
PSS / PSD	-11.47 / 38.04	-5.13 / 29.06		

Immune Metabolites	7/15/2003	5/25/2004	+/-	
Arginine - P	-49.09 L	-38.18 L	+	-49.09 → -38.18
Threonine - P	-48.67 L	-24.67	+	-48.67 → -24.67
Glutamine - P	-44.22 L	-24.67	+	-44.22 → -24.67
Ornithine - P	-48.00 L	-41.33 L		
PSS / PSD	-47.49 / 47.49	-32.21 / 32.21		

Panel/Subset Comparison Report

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

Muscle Metabolites	7/15/2003		5/25/2004	+/-		
Anserine - P	-49.00	L	50.00	H		
Carnosine - P	-49.00	L	50.00	H		
1-Methylhistidine - P	55.00	H	-10.00	+	-10.00	← 55.00
3-Methylhistidine - P	50.00	H	30.00	H	+	30.00 ← 50.00
PSS / PSD	1.75 / 50.75		30.00 / 35.00			

Neuroendocrine Met.	7/15/2003		5/25/2004	+/-		
GABA - P	70.00	H	-10.00	+	-10.00	← 70.00
Glycine - P	-60.22	L	-46.44	L	+	-60.22 → -46.44
Serine - P	-64.17	L	-71.67	L		
Taurine - P	-48.50	L	-49.00	L		
Tyrosine - P	-38.57	L	-22.86	+	-38.57	→ -22.86
PSS / PSD	-28.29 / 56.29		-39.99 / 39.99			

Adrenal Function	7/15/2003		5/25/2004	+/-		
Cholesterol	53.00	H	54.00	H		
Eosinophils	33.33	H	33.33	H		
Eosinophil Count	-7.00		-6.00			
Potassium	0.00		5.00			
Sodium	-8.33		3.85			
PSS / PSD	14.20 / 20.33		18.04 / 20.44			

Allergy	7/15/2003		5/25/2004	+/-		
Eosinophils	33.33	H	33.33	H		
Globulin	-18.75		-13.33			
Lymphocytes	-23.33		-33.33	L	-	-33.33 ← -23.33
Monocytes	3.85		3.85			
W.B.C.	-30.00	L	-28.46	L		
PSS / PSD	-6.98 / 21.85		-7.59 / 22.46			

Anti Oxidant Status	7/15/2003		5/25/2004	+/-		
Anion Gap	28.33	H	38.33	H	-	28.33 → 38.33
Bilirubin, Total	-22.73		-4.55	+		-22.73 → -4.55
Chloride	11.54		19.23	-		11.54 → 19.23
Cholesterol	53.00	H	54.00	H		
Glucose	52.27	H	61.76	H	-	52.27 → 61.76
Iron, Total	-22.17		-7.39	+		-22.17 → -7.39
PSS / PSD	14.32 / 27.15		23.06 / 26.47			

Athletic Potential	7/15/2003		5/25/2004	+/-		
B.U.N./Creatinine Ratio	-7.02		-28.95	L	-	-28.95 ← -7.02
Cholesterol	53.00	H	54.00	H		
CO2	-25.00	L	-25.00	L		
Creatinine	16.67		30.00	H	-	16.67 → 30.00
LDH	-4.38		-14.00	-		-14.00 ← -4.38
Potassium	0.00		5.00			
Protein, Total	-18.00		-10.00	+		-18.00 → -10.00
Sodium	-8.33		3.85			
HDL-Cholesterol	-3.49		1.16			
PSS / PSD	0.38 / 15.10		1.78 / 19.11			

Panel/Subset Comparison Report

Frank

Foundational Wellness Profile Date: 5/25/2004

Male / Age: 60

Bone/Joint	7/15/2003	5/25/2004	+/-		
Albumin	-5.00	16.67	-	-5.00	→ 16.67
Alkaline Phosphatase	-22.00	-15.60			
Calcium	-36.96 L	-45.24 L	-	-45.24 ←	-36.96
Neutrophils	6.00	14.00	-	6.00	→ 14.00
Phosphorus	-5.00	-20.00	-	-20.00	← -5.00
Protein, Total	-18.00	-10.00	+	-18.00	→ -10.00
Uric Acid	5.17	22.41	-	5.17	→ 22.41
PSS / PSD	-10.83 / 14.02	-5.39 / 20.56			

Cardiac Marker	7/15/2003	5/25/2004	+/-		
Cholesterol	53.00 H	54.00 H			
GGT	-14.62	-3.85	+	-14.62	→ -3.85
Iron, Total	-22.17	-7.39	+	-22.17	→ -7.39
LDH	-4.38	-14.00	-	-14.00	← -4.38
sGOT	-10.00	5.00			
Triglycerides	41.95 H	54.70 H	-	41.95 →	54.70
Uric Acid	5.17	22.41	-	5.17	→ 22.41
HDL-Cholesterol	-3.49	1.16			
LDL	101.47 H	94.12 H			
PSS / PSD	12.24 / 21.35	17.18 / 21.39			

Cellular Distortions	7/15/2003	5/25/2004	+/-		
Alkaline Phosphatase	-22.00	-15.60			
Anion Gap	28.33 H	38.33 H	-	28.33 →	38.33
GGT	-14.62	-3.85	+	-14.62	→ -3.85
Iron, Total	-22.17	-7.39	+	-22.17	→ -7.39
LDH	-4.38	-14.00	-	-14.00	← -4.38
Neutrophils	6.00	14.00	-	6.00	→ 14.00
W.B.C.	-30.00 L	-28.46 L			
PSS / PSD	-7.35 / 15.94	-2.12 / 15.20			

Differential	7/15/2003	5/25/2004	+/-		
Basophils	-50.00 L	-16.67	+	-50.00 →	-16.67
Eosinophils	33.33 H	33.33 H			
Lymphocytes	-23.33	-33.33 L	-	-33.33 ←	-23.33
Monocytes	3.85	3.85			
Neutrophils	6.00	14.00	-	6.00	→ 14.00
PSS / PSD	-6.03 / 23.30	0.24 / 20.24			

Differential Count	7/15/2003	5/25/2004	+/-		
Basophil Count	-50.00 L	-23.00	+	-50.00 →	-23.00
Eosinophil Count	-7.00	-6.00			
Lymphocyte Count	-35.55 L	-38.95 L			
Monocyte Count	-31.00 L	-30.22 L			
Neutrophil Count	-26.03 L	-23.29			
PSS / PSD	-29.92 / 29.92	-24.29 / 24.29			

Panel/Subset Comparison Report

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

Electrolyte	7/15/2003		5/25/2004		+/-			
Calcium	-36.96	L	-45.24	L	-	-45.24	←	-36.96
Chloride	11.54		19.23		-	11.54	→	19.23
CO2	-25.00	L	-25.00	L				
Phosphorus	-5.00		-20.00		-	-20.00	←	-5.00
Potassium	0.00		5.00					
Sodium	-8.33		3.85					
PSS / PSD	-10.63 / 14.47		-10.36 / 19.72					

Gastrointest. Function	7/15/2003		5/25/2004		+/-			
Anion Gap	28.33	H	38.33	H	-	28.33	→	38.33
Chloride	11.54		19.23		-	11.54	→	19.23
Cholesterol	53.00	H	54.00	H				
CO2	-25.00	L	-25.00	L				
Monocytes	3.85		3.85					
Potassium	0.00		5.00					
Sodium	-8.33		3.85					
Triglycerides	41.95	H	54.70	H	-	41.95	→	54.70
LDL	101.47	H	94.12	H				
PSS / PSD	22.98 / 30.39		27.56 / 33.12					

Hematology	7/15/2003		5/25/2004		+/-			
Hematocrit	-1.67		-4.44					
Hemoglobin	-14.00		-14.00					
MCH	28.19	H	21.49					
MCHC	-40.37	L	-31.42	L	+	-40.37	→	-31.42
MCV	39.29	H	27.80	H	+	27.80	←	39.29
R.B.C.	-23.89		-20.56					
W.B.C.	-30.00	L	-28.46	L				
PSS / PSD	-6.06 / 25.35		-7.08 / 21.17					

Inflammatory Process	7/15/2003		5/25/2004		+/-			
Eosinophils	33.33	H	33.33	H				
Globulin	-18.75		-13.33					
LDH	-4.38		-14.00		-	-14.00	←	-4.38
Neutrophils	6.00		14.00		-	6.00	→	14.00
Potassium	0.00		5.00					
sGOT	-10.00		5.00					
sGPT	-17.50		0.00		+	-17.50	→	0.00
Triglycerides	41.95	H	54.70	H	-	41.95	→	54.70
Uric Acid	5.17		22.41		-	5.17	→	22.41
LDL	101.47	H	94.12	H				
PSS / PSD	13.73 / 23.85		20.12 / 25.59					

Panel/Subset Comparison Report

Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

Kidney Function	7/15/2003	5/25/2004	+/-		
Albumin	-5.00	16.67	-	-5.00	→ 16.67
B.U.N.	7.14	-11.90			
B.U.N./Creatinine Ratio	-7.02	-28.95 L	-	-28.95 ←	-7.02
Chloride	11.54	19.23	-	11.54	→ 19.23
CO2	-25.00 L	-25.00 L			
Creatinine	16.67	30.00 H	-	16.67	→ 30.00
Glucose	52.27 H	61.76 H	-	52.27 →	61.76
Potassium	0.00	5.00			
Protein, Total	-18.00	-10.00	+	-18.00	→ -10.00
Sodium	-8.33	3.85			
PSS / PSD	2.43 / 15.10	6.07 / 21.24			

Lipid	7/15/2003	5/25/2004	+/-		
Cholesterol	53.00 H	54.00 H			
Triglycerides	41.95 H	54.70 H	-	41.95 →	54.70
HDL-Cholesterol	-3.49	1.16			
LDL	101.47 H	94.12 H			
PSS / PSD	32.15 / 33.32	34.00 / 34.00			

Liver Function	7/15/2003	5/25/2004	+/-		
Albumin	-5.00	16.67	-	-5.00	→ 16.67
Alkaline Phosphatase	-22.00	-15.60			
Bilirubin, Total	-22.73	-4.55	+	-22.73	→ -4.55
Cholesterol	53.00 H	54.00 H			
GGT	-14.62	-3.85	+	-14.62	→ -3.85
Protein, Total	-18.00	-10.00	+	-18.00	→ -10.00
sGOT	-10.00	5.00			
sGPT	-17.50	0.00	+	-17.50	→ 0.00
PSS / PSD	-7.11 / 20.36	5.21 / 13.71			

Nitrogen	7/15/2003	5/25/2004	+/-		
B.U.N.	7.14	-11.90			
B.U.N./Creatinine Ratio	-7.02	-28.95 L	-	-28.95 ←	-7.02
Creatinine	16.67	30.00 H	-	16.67	→ 30.00
Uric Acid	5.17	22.41	-	5.17	→ 22.41
PSS / PSD	5.49 / 9.00	2.89 / 23.32			

Protein	7/15/2003	5/25/2004	+/-		
A/G Ratio	6.41	-7.69			
Albumin	-5.00	16.67	-	-5.00	→ 16.67
Globulin	-18.75	-13.33			
Protein, Total	-18.00	-10.00	+	-18.00	→ -10.00
Protein/Globulin Ratio	23.33	9.23	+	9.23	← 23.33
PSS / PSD	-2.40 / 14.30	-1.03 / 11.38			

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Foundational Wellness Profile Date: 5/25/2004

Frank

Male / Age: 60

Pulmonary Function	7/15/2003		5/25/2004		+/-	
Anion Gap	28.33	H	38.33	H	-	28.33 38.33
Calcium	-36.96	L	-45.24	L	-	-45.24 -36.96
CO2	-25.00	L	-25.00	L		
LDH	-4.38		-14.00		-	-14.00 -4.38
Potassium	0.00		5.00			
sGOT	-10.00		5.00			
Sodium	-8.33		3.85			
PSS / PSD	-8.05 / 16.14		-4.58 / 19.49			

Ratios	7/15/2003		5/25/2004		+/-	
A/G Ratio	6.41		-7.69			
B.U.N./Creatinine Ratio	-7.02		-28.95	L	-	-28.95 -7.02
Calcium/Phosphorus Ratio	-21.18		-2.58		+	-21.18 -2.58
Sodium/Potassium Ratio	-1.52		-9.42		-	-9.42 -1.52
Protein/Globulin Ratio	23.33		9.23		+	9.23 23.33
PSS / PSD	0.01 / 9.91		-6.57 / 9.65			

Thyroid	7/15/2003		5/25/2004		+/-	
Thyroxine (T4)	-16.25		-26.00	L	-	-26.00 -16.25
T-3 Uptake	12.67		43.33	H	-	12.67 43.33
Free T4 Index (T7)	-18.75		-17.57			
Ultra-Sensitive TSH	2.58		1.38			
PSS / PSD	-4.94 / 12.56		0.29 / 22.07			

Amino Acid Catabolism	7/15/2003		5/25/2004		+/-	
a-Ketoisovalerate	25.00	H	12.50		+	12.50 25.00
a-Ketoisocaproate	-10.00		10.00			
a-Keto-b-methylvalerate	-14.29		0.00		+	-14.29 0.00
PSS / PSD	0.24 / 16.43		7.50 / 7.50			

B-Complex Markers	7/15/2003		5/25/2004		+/-	
b-Hydroxyisovalerate	6.36		-10.00			
a-Ketoisovalerate	25.00	H	12.50		+	12.50 25.00
a-Ketoisocaproate	-10.00		10.00			
a-Keto-b-methylvalerate	-14.29		0.00		+	-14.29 0.00
Methylmalonate	-6.25		-29.17	L	-	-29.17 -6.25
PSS / PSD	0.17 / 12.38		-3.33 / 12.33			

CAC Cycle Ratios	7/15/2003		5/25/2004		+/-	
CA Cycle Entry	237.22	H	209.72	H	+	209.72 237.22
CA Cycle Phase 1	0.19		-2.66			
CA Cycle Phase 2	-40.05	L	-31.01	L	+	-40.05 -31.01
CA Cycle Phase 3	-16.50		-16.22			
CA Cycle Phase 4	-40.69	L	-45.95	L		
CA Cycle Phase 5	-35.75	L	-39.71	L		
CA Cycle Phase 6	-16.67		121.43	H	-	-16.67 121.43
CA Cycle Return	46.09	H	-43.19	L		
PSS / PSD	16.73 / 54.15		19.05 / 63.74			

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Frank

Male / Age: 60

Carbohydrate Metabolism		7/15/2003	5/25/2004	+/-	
Lactate	-57.78 L	-18.89	+	-57.78	
Pyruvate	3.57	-7.14			
a-Hydroxybutyrate	3.64	21.82	-	3.64	
b-Hydroxybutyrate	-21.11	83.33 H	-	-21.11	
PSS / PSD	-17.92 / 21.52	19.78 / 32.80			

Citric Acid Cycle		7/15/2003	5/25/2004	+/-	
Citrate	4.72	-18.16	-	-18.16	
cis-Aconitate	27.94 H	-7.35	+	-7.35	
Isocitrate	-48.33 L	-16.67	+	-48.33	
a-Ketoglutarate	-2.50	22.14	-	-2.50	
Succinate	-30.53 L	-41.58 L	-	-41.58	
Fumarate	30.00 H	20.00	+	20.00	
Malate	-21.43	78.57 H	-	-21.43	
Hydroxymethylglutarate	-3.23	27.42 H	-	-3.23	
PSS / PSD	-5.42 / 21.08	8.05 / 28.99			

Intestinal Dysbiosis		7/15/2003	5/25/2004	+/-	
Hippurate	-43.93 L	25.00 H	+	-43.93	
Benzoate	4298.82 H	-11.76	+	-11.76	
p-Hydroxybenzoate	68.18 H	-40.91 L	+	-40.91	
p-Hydroxyphenyllactate	17.12	23.97			
Phenylacetate	-28.57 L	-21.43			
Phenylpropionate	-7.14	-7.14			
Tricarballic acid	26.92 H	3.85	+	3.85	
DHPP	-12.50	25.00 H	-	-12.50	
Citramalate	30.00 H	1.67	+	1.67	
Tartarate	17.27	160.00 H	-	17.27	
Indican	-20.93	6.98	+	-20.93	
PSS / PSD	334.25 / 351.65	12.71 / 25.21			

Lipid Metabolism		7/15/2003	5/25/2004	+/-	
Adipate	26.19 H	8.33	+	8.33	
Suberate	31.48 H	-12.96	+	-12.96	
Ethylmalonate	4.17	1.67			
PSS / PSD	20.61 / 20.61	-0.99 / 7.65			

Liver Detox Indicators		7/15/2003	5/25/2004	+/-	
2-Methylhippurate	16.22	16.22			
Glucarate	-47.99 L	-34.56 L	+	-47.99	
P-Hydroxyphenylacetate	-14.44	-16.67			
Orotate	31.82 H	31.82 H			
Pyroglutamate	30.00 H	18.12	+	18.12	
Sulfate	50.00 H	-60.00 L	-	-60.00	
PSS / PSD	10.93 / 31.74	-7.51 / 29.56			

Panel/Subset Comparison Report

Frank

Male / Age: 60

Foundational Wellness Profile Date: 5/25/2004

Neurotransmitters	7/15/2003	5/25/2004	+/-	
Vanillylmandelate	-16.00	-28.00 L	-	-28.00 -16.00
Homovanillate	-33.64 L	-24.55	+	-33.64 -24.55
5-Hydroxyindoleacetate	-7.38	-48.36 L	-	-48.36 -7.38
Kynurenate	-32.50 L	-5.00	+	-32.50 -5.00
Quinolate	-50.00 L	-12.86	+	-50.00 -12.86
PSS / PSD	-27.90 / 27.90	-23.75 / 23.75		