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Anna

Test date: 12/6/2004
(accession: A0412090069)

Next Test Due: 6/19/2005

CellMate™ Foundational Wellness Profile Report

Practitioner

Printed on Wednesday, January 5, 2005 for:

Anna

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Basic Status High/Low - Plasma Amino Acid on 12/6/2004

Anna

Female / Age: 52

Client ID:555986644 (8322)

Foundational Wellness Profile Date: 12/6/2004

Anna : (2718)

503-977-2660

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

Low Results

-80	-60	-40	-20	0		% Status		Result	Low	High
						-51.20	L	167.00	170.00	420.00
						-47.27	L	53.00	50.00	160.00
						-45.83	L	95.00	90.00	210.00
						-44.50	L	61.00	50.00	250.00
						-44.12	L	50.00	45.00	130.00
						-42.73	L	98.00	90.00	200.00
						-40.00	L	18.00	10.00	90.00
						-38.89	L	250.00	225.00	450.00
						-36.44	L	661.00	600.00	1050.00
						-35.45	L	23.00	15.00	70.00
						-34.21	L	60.00	45.00	140.00
						-33.33	L	10.00	6.00	30.00
						-32.14	L	0.71	0.50	1.70
						-30.67	L	79.00	50.00	200.00
						-26.19	L	70.00	45.00	150.00
						-25.93	L	195.00	130.00	400.00

-25%

High Results

-50	0	50	100	150		% Status		Result	Low	High
						256.67	H	127.00	35.00	65.00
						73.33	H	195.00	10.00	160.00
						70.00	H	6.00	0.00	5.00
						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
						37.50	H	7.00	0.00	8.00
						32.57	H	539.00	250.00	600.00
						30.00	H	4.00	0.00	5.00
						25.44	H	2.63	1.50	3.00
						25.00	H	3.00	0.00	4.00

-25%

25%

Basic Status High/Low - Blood Test on 12/19/2004

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna

(2718)

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

Low Results

	-80	-60	-40	-20	0					
						% Status	Result	<i>Low</i>	<i>High</i>	
			-46.72			-46.72	L	931.00	800.00	4800.00
			-46.67			-46.67	L	19.00	18.00	48.00
			-40.53			-40.53	L	2.39	2.30	3.30
			-36.15			-36.15	L	4.90	4.00	10.50
			-35.50			-35.50	L	1.30	1.10	2.50
			-31.67			-31.67	L	10.20	8.00	20.00
			-30.03			-30.03	L	3038.00	1800.00	8000.00
			-30.00			-30.00	L	0.70	0.50	1.50
			-29.70			-29.70	L	2.30	2.10	3.10
			-25.50			-25.50	L	49.00	0.00	200.00

-25%

High Results

	-50	0	50	100	150					
						% Status	Result	<i>Low</i>	<i>High</i>	
			123.53			123.53	H	180.00	62.00	130.00
			79.00			79.00	H	269.00	140.00	240.00
			50.00			50.00	H	7.00	0.00	7.00
			47.99			47.99	H	146.00	0.00	149.00
			27.78			27.78	H	11.00	4.00	13.00
			26.77			26.77	H	32.37	27.00	34.00
			25.00			25.00	H	29.00	20.00	32.00

-25%

25%

Basic Status High/Low - Urine Organic Acid on 12/9/2004

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna

(2718)

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

Low Results

-80	-60	-40	-20	0		% Status	Result	Low	High	
						-55.00	L	171.00	180.00	360.00
					Sulfate					
						-47.95	L	1.50	0.00	73.00
					D-Arabinitol					
						-47.72	L	3.40	0.00	149.00
					Glucarate					
						-46.36	L	0.00	0.00	0.11
					8-Hydroxy-2-deoxyguan					
						-43.64	L	0.70	0.00	11.00
					a-Hydroxybutyrate					
						-40.91	L	0.10	0.00	1.10
					p-Hydroxybenzoate					
						-40.48	L	0.80	0.00	8.40
					Adipate					
						-36.67	L	0.60	0.00	4.50
					b-Hydroxybutyrate					
						-33.00	L	0.17	0.00	1.00
					Fumarate					
						-30.88	L	63.00	50.00	118.00
					cis-Aconitate					
						-30.00	L	9.00	0.00	45.00
					P-Hydroxyphenylacetate					
						-26.00	L	2.00	0.80	5.80
					Vanilylmandelate					

-25%

High Results

-50	0	50	100	150		% Status	Result	Low	High	
						950.00	H	0.70	0.00	0.07
					Phenylpropionate					
						720.49	H	48.50	1.50	7.60
					5-Hydroxyindoleacetate					
						156.25	H	33.00	0.00	16.00
					Pyroglutamate					
						153.47	H	244.17	0.00	120.00
					CA Cycle Entry					
						139.19	H	0.14	0.00	0.07
					2-Methylhippurate					
						138.57	H	6.60	0.00	3.50
					Quinolate					
						137.50	H	0.30	0.00	0.16
					Formiminoglutamic Acid					
						86.99	H	1.00	0.00	0.73
					p-Hydroxyphenyllactate					
						76.43	H	354.00	0.00	280.00
					Hippurate					
						53.33	H	11.30	2.00	11.00
					Lactate					
						35.71	H	2.40	0.00	2.80
					Pyruvate					
						31.82	H	0.90	0.00	1.10
					Orotate					
						28.57	H	1.10	0.00	1.40
					Malate					
						28.42	H	16.90	2.00	21.00
					Succinate					

-25%

25%

Basic Status Alphabetic - Plasma Amino Acid on 12/6/2004

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna

(2718)

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
						25.00	H	3.00	0.00 4.00
						-16.67		20.00	10.00 40.00
						32.57	H	539.00	250.00 600.00
						50.00	H	1.00	0.00 1.00
						-5.45		99.00	50.00 160.00
						-44.12	L	50.00	45.00 130.00
						-33.33	L	10.00	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
						-35.45	L	23.00	15.00 70.00
						73.33	H	195.00	10.00 160.00
						0.00		2.00	0.00 4.00
						-40.00	L	18.00	10.00 90.00
						37.50	H	7.00	0.00 8.00
						-10.00		2.00	0.00 5.00
						-26.19	L	70.00	45.00 150.00
						-36.44	L	661.00	600.00 1050.00
						-38.89	L	250.00	225.00 450.00
						25.44	H	2.63	1.50 3.00
						-21.43		90.00	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
						-47.27	L	53.00	50.00 160.00
						-42.73	L	98.00	90.00 200.00
						-10.00		210.00	150.00 300.00
						-22.00		32.00	25.00 50.00
						-30.67	L	79.00	50.00 200.00
						-34.21	L	60.00	45.00 140.00
						-32.14	L	0.71	0.50 1.70
						3.33		16.00	0.00 30.00
						0.00		6.00	0.00 12.00
						-25.93	L	195.00	130.00 400.00
						70.00	H	6.00	0.00 5.00
						-45.83	L	95.00	90.00 210.00
						-44.50	L	61.00	50.00 250.00
						-18.00		148.00	100.00 250.00
						256.67	H	127.00	35.00 65.00
						-1.43		84.00	50.00 120.00
						-51.20	L	167.00	170.00 420.00
						34.45			
						-1.68			

Basic Status Alphabetic - Blood Test on 12/19/2004

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna

(2718)

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

-100	-50	0	50	100	% Status	Result	Low	High
					-35.50	L	1.30	1.10 2.50
					-10.00		4.30	3.50 5.50
					21.20		114.00	25.00 150.00
					-31.67	L	10.20	8.00 20.00
					-7.14		14.00	5.00 26.00
					23.68		20.00	6.00 25.00
					-25.50	L	49.00	0.00 200.00
					-16.67		1.00	0.00 3.00
					-13.64		0.50	0.10 1.20
					-21.43		9.10	8.50 10.60
					-40.53	L	2.39	2.30 3.30
					11.54		104.00	96.00 109.00
					79.00	H	269.00	140.00 240.00
					25.00	H	29.00	20.00 32.00
					-30.00	L	0.70	0.50 1.50
					8.60		343.00	50.00 550.00
					50.00	H	7.00	0.00 7.00
					-22.97		2.20	1.20 4.90
					-10.00		24.00	0.00 60.00
					10.00		3.30	1.50 4.50
					11.76		86.00	65.00 99.00
					-8.18		60.00	37.00 92.00
					-3.00		38.70	34.00 44.00
					7.14		13.50	11.50 15.00
					-10.83		82.00	35.00 155.00
					17.33		201.00	100.00 250.00
					123.53	H	180.00	62.00 130.00
					-46.72	L	931.00	800.00 4800.00
					-46.67	L	19.00	18.00 48.00
					26.77	H	32.37	27.00 34.00
					22.09		34.88	32.00 36.00
					21.14		92.81	80.00 98.00
					-12.33		539.00	200.00 1100.00
					27.78	H	11.00	4.00 13.00
					-30.03	L	3038.00	1800.00 8000.00
					6.00		62.00	48.00 73.00
					15.00		3.80	2.50 4.50
					-15.00		4.20	3.50 5.50
					14.00		7.60	6.00 8.50
					-29.70	L	2.30	2.10 3.10
					-21.54		4.17	3.80 5.10
					7.50		23.00	0.00 40.00
					10.00		24.00	0.00 40.00
					-19.23		139.00	135.00 148.00
					10.00		33.00	24.00 39.00
					-22.00		6.60	4.50 12.00
					47.99	H	146.00	0.00 149.00
					-1.72		5.20	2.40 8.20
					-36.15	L	4.90	4.00 10.50
					23.49			
					0.76			

Basic Status Alphabetic - Urine Organic Acid on 12/9/2004

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna

(2718)

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

-100	-50	0	50	100	% Status	Result	Low	High
					139.19 H	0.14	0.00	0.07
					720.49 H	48.50	1.50	7.60
					-46.36 L	0.00	0.00	0.11
					-40.48 L	0.80	0.00	8.40
					-43.64 L	0.70	0.00	11.00
					-14.29	0.50	0.00	1.40
					-6.43	14.20	2.00	30.00
					-2.00	0.24	0.00	0.50
					-10.00	0.32	0.00	0.80
					8.82	3.00	0.00	5.10
					-36.67 L	0.60	0.00	4.50
					-10.91	4.30	0.00	11.00
					153.47 H	244.17	0.00	120.00
					-16.44	532.73	125.00	1340.00
					-30.88 L	63.00	50.00	118.00
					15.76	586.00	175.00	800.00
					-47.95 L	1.50	0.00	73.00
					-23.75	0.21	0.00	0.80
					-18.42	0.60	0.00	1.90
					-14.17	4.30	0.00	12.00
					137.50 H	0.30	0.00	0.16
					-33.00 L	0.17	0.00	1.00
					-47.72 L	3.40	0.00	149.00
					76.43 H	354.00	0.00	280.00
					10.00	4.30	1.00	6.50
					-11.29	4.40	2.00	8.20
					-3.49	40.00	0.00	86.00
					-13.33	62.00	40.00	100.00
					-20.00	1.20	0.00	4.00
					53.33 H	11.30	2.00	11.00
					28.57 H	1.10	0.00	1.40
					-20.83	1.40	0.00	4.80
					31.82 H	0.90	0.00	1.10
					21.43	0.10	0.00	0.14
					950.00 H	0.70	0.00	0.07
					-40.91 L	0.10	0.00	1.10
					-30.00 L	9.00	0.00	45.00
					86.99 H	1.00	0.00	0.73
					156.25 H	33.00	0.00	16.00
					35.71 H	2.40	0.00	2.80
					138.57 H	6.60	0.00	3.50
					-9.26	1.10	0.00	2.70
					28.42 H	16.90	2.00	21.00
					-55.00 L	171.00	180.00	360.00
					19.23	0.90	0.00	1.30
					-26.00 L	2.00	0.80	5.80
					20.00	0.70	0.00	1.00
					76.15			
					43.93			

Client Summary Review

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna

(2718)

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-Carbohydrate Metabolism Profile
See Nutrition Detail |
| <input type="checkbox"/> 1-Detoxification Protocol
See Nutrition Detail | <input type="checkbox"/> 1-Folic Acid
2x daily 800 mcg |
| <input type="checkbox"/> 1-L-Carnitine
2x daily 500 mg | <input type="checkbox"/> 1-Oral Electrolyte - Standard Formula
2x daily |
| <input type="checkbox"/> 1-Riboflavin (B2), B12, Folate
See nutrition detail | <input type="checkbox"/> 1-Taurine
2x daily 500 mg |
| <input type="checkbox"/> 1-Yeast Reduction Protocol2
See Nutrition Detail | <input type="checkbox"/> 2-Betaine HCL
2 tablets at mealtime |
| <input type="checkbox"/> 2-Glutathione (reduced)
2x daily 250 mg | <input type="checkbox"/> 2-Glycine
2x daily 500 mg |
| <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-Probiotics
1x daily 3 caps | <input type="checkbox"/> 2-Vitamin C
1x daily 1000 mg |
| <input type="checkbox"/> 2-Zinc Citrate
2x daily 50 mg | <input type="checkbox"/> H - Black Cohosh
1 - 3 times daily (Females only) |
| <input type="checkbox"/> H - Garlic
1 - 3 times daily | |

Nutritional Supplements to AVOID

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

MCT Oil

Food Recommendations

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

Apricots, Dried	Artichoke	Banana	Beef
Black Pepper	Blueberries	Bok Choy Cabbage	Boysenberries
Brown Rice	Buckwheat	Butter Beans	Cantaloupe
Cheddar Cheese	Clams	Cucumber	Currant, Black
Eggplant	Elderberries	Fava Beans	Feta Cheese
Flounder	Goose	Grapefruit	Green Beans
Gruyere Cheese	Guava	Haddock	Halibut
Honeydew Melon	Kale	Kidney Beans	Lamb
Lentils	Macadamia Nuts	Mackerel	Mozarella Cheese
Mushrooms	Mussels	Navy Beans	Onions
Oysters	Papaya	Peanuts	Pecans
Plantains	Potatoes	Prawns	Pumpkin
Rabbit	Red Peppers	Rye Flour, Dark	Salmon
Shad	Snapper	Sole	Strawberries
Sturgeon	Trout	Tuna	Veal
Venison	Walnuts	Watermelon	Wild Rice
Yams			

Foods to AVOID

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

Bacon	Carbonated Beverages	Cholesterol Rich Foods	Chuck Roast
Coconut Cream	Coconut Milk	Coffee	Dairy Cream
Egg Yolk	Hydrogenated Fats	Liver Pate	Margarine

Client Summary Review (continued)

Anna

Female / Age: 52

Foundational Wellness Profile Date: 12/6/2004

Anna

(2718)

Sweetbreads

Turkey

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
Neurotransmitters	183.01%	164.61%
CAC Cycle Ratios	99.17%	83.65%
Intestinal Dysbiosis	94.70%	84.21%
Gluconeogen	78.39%	37.30%
Liver Detox Indicators	76.66%	32.42%
Essential Amino Acid	50.90%	0.44%
CNS Metabolism	46.54%	7.55%
Lipid	43.12%	40.39%
Fat Metabolism	42.51%	-22.51%
Carbohydrate Metabolism	42.34%	2.19%
Gastrointest. Function	42.30%	27.66%
Muscle Metabolites	35.00%	30.00%
Adrenal Function	34.37%	20.67%
Allergy	34.12%	0.99%
Connective Tissue	33.56%	-13.56%
Hepatic Metabolism	32.22%	-8.62%
Differential	29.42%	4.09%
Inflammatory Process	28.91%	25.56%
Ammonia/Energy	28.47%	-20.25%
Neuroendocrine Met.	28.13%	-28.13%
Athletic Potential	25.71%	9.62%
Cardiac Marker	25.51%	20.38%

Lab Reported out-of-range Values

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

Phenylpropionate (950.00%)

A high reading of this organic acid may be indicative of an overgrowth of intestinal microbiota or protozoa. The presence of this acid may be due to the action of bacteria on phenylalanine and should not appear in anything more than background amounts.

5-Hydroxyindoleacetate (720.49%)

An elevation of this metabolite of the breakdown of serotonin may be due to the use of serotonin-specific re-uptake inhibitor (SSRI) drugs or the release of serotonin from the central nervous system, intestinal argentaffin cells or platelets.

Drugs which may have an adverse affect:

Prozac, Reserpine

CA Cycle Phase 6 (381.37%)

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.

Tryptophan - P (256.67%)

Tryptophan metabolism requires B6, folic acid, and magnesium. Also, niacin and glutamine are important requirements for normal metabolism. Niacin can be made from tryptophan. A high result may be due to improper metabolism of tryptophan.

Foods which may have an adverse affect:

Turkey

Bacteria2 (235.71%)

A high reading is consistent with bacteria in the gut acting upon the amino acid phenylalanine. Probiotics and/or careful administration of antibiotics may be helpful in bringing down this ratio.

Pyroglutamate (156.25%)

A high level may be due to glutathione depletion as this organic acid is formed in the kidney from the amino acid glutathione.

CA Cycle Entry (153.47%)

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.

CA Cycle Phase 5 (148.82%)

This phase of the citric acid cycle is the reaction caused by removing electrons from Succinate to form Fumarate. Co-Q10 deficiency may be responsible for an elevated ratio.

2-Methylhippurate (139.19%)

This organic acid is an indication of exposure to or xylene or toluene. A comprehensive detoxification program should be undertaken to help the body excrete these petrochemicals. The use of antioxidants and glycine are recommended.

Quinolate (138.57%)

A high reading of quinolate is indicative of oxidative stress that may be favorably resolved by the use of vitamin E.

Formiminoglutamic Acid (137.50%)

A high reading of this organic acid is suggestive of a folic acid deficiency. FIGLU is a compound derived from histidine and an insufficiency of folic acid leads to a high result

LDL (123.53%)

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

p-Hydroxyphenyllactate (86.99%)

Elevated levels are indicative of the need for antioxidants as this reading suggests an ongoing pro-oxidant process.

Cholesterol (79.00%)

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

Hippurate (76.43%)

A high reading of this organic acid may be indicative of an overgrowth of intestinal microbiota. The use of glycine may help lower the results. The presence of this acid may be due to the action of bacteria on phenylalanine.

Drugs which may have an adverse affect:

Aspirin

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.

Sarcosine - P (70.00%)

Elevated sarcosine may be indicative of a functional deficiency of riboflavin (B2) this in turn may impair vitamin B6 metabolism and the conversion of tryptophan to niacin.

Sulfate (-55.00%)

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

Lactate (53.33%)

A high level of this organic acid may be indicative of poor metabolism and/or a problem in the citric acid cycle.

Valine - P (-51.20%)

Valine is one of the branched chain amino acids (BCAA) a group of essential amino acids (with leucine and isoleucine) involved in handling of stress, energy production, and muscle metabolism. Balanced supplementation of BCAA's has been reported to be effective in chronic liver disease, anorexia, recovery from surgery, and endocrine functioning. A low plasma level of valine may be due to muscle loss or inadequate stomach acid if other essential amino acids are also low.

Anserine - P (50.00%)

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

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.

Eosinophils (50.00%)

Eosinophils protect the body from parasites and allergic reactions, therefore, elevated levels may indicate an allergic response.

Drugs which may have an adverse affect:

Allopurinol, Ampicillin, Carbamazepine, Chlorpromazine, Clindamycin, Desipramine, Erythromycin, Fluorides, Fluphenazine, Haloperidol, Imipramine, Indomethacin, Kanamycin, Methyldopa, Naproxen, Nitrofurantoin, Penicillamine, Penicillin, Phenylbutazone, Phenytoin, Procainamide, Protriptyline, Rifampin, Streptomycin, Sulfamethoxazole, Sulfasalazine, Sulfisoxazole, Tetracycline, Triameterene, Viomycin

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.

Nutrition - Detail

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna (2718)

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

Decreased

Rationale

Normal

Increased

CA Cycle Entry

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 between 6-18

B-Complex - 1x daily

CoEnzyme Q10 - 25 mg daily

Vitamin C - 500 mg daily

Amino Acid Complex - 5 grams 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.

1-Carbohydrate Metabolism Profile See Nutrition Detail

CARBOHYDRATE METABOLISM PROFILE

Decreased

Normal

Increased

Lactate

Pyruvate

When Lactate and Pyruvate are elevated it indicates a potential for impaired carbohydrate metabolism. This pattern indicates suboptimal operation of carbohydrate metabolism, interfering with efficient cellular energy production. Various pathways being over- or under- utilized can be nutritionally supported with digestive enzymes, B-Complex, Lipoic acid, and CoEnzyme Q10 supplementation. Recommended nutrients include:

B-Complex (2x daily)

Lipoic Acid (2x daily)

CoEnzyme Q10 (1x daily)

Digestive Enzymes (1-2 with each meal)

Wallace, DC, Mitochondrial genetics: a paradigm for aging and degenerative diseases?, Science, 256:628-632 (1992).

Corral-Debrinski, Shffner JM, Lott MY, Wallace DC, Association of mitochondrial DNA damage with aging and coronary arteriosclerotic heart disease. Mutat Res, 275:169-180 (1992).

1-Detoxification Protocol See Nutrition Detail

DETOXIFICATION PROTOCOL

Decreased

Normal

Increased

2-Methylhippurate
Hippurate

Due to the elevated level of 2-Methylhippurate, it is important that you avoid xylene, a compound found in fossil fuels and as a solvent as well as toluene and styrene. A comprehensive detoxification protocol should include at least 250 mg of glycine daily along with a balanced amino acid complex and a broad spectrum antioxidant formula with Vitamin C and CoEnzyme Q10.

Adults:

Glycine - 500 mg 2x daily

Amino Acid Complex - 5 grams 2x daily

Broad Spectrum Antioxidant - 2x daily

Children:

Glycine - 250 mg 2x daily

Amino Acid Complex 2.5 grams 2x daily

Broad Spectrum Antioxidant - 1x daily

Nutrition - Detail

Foundational Wellness Profile Date: 12/6/2004

Anna

Female / Age: 52

Anna

(2718)

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1-Folic Acid 2x daily 800 mcg

FOLIC ACID

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

A folic acid deficiency may lead to a buildup of this organic acid which is created through the metabolism of histidine.

Decreased

Rationale

Normal

Increased

Formiminoglutamic Acid

1-L-Carnitine 2x daily 500 mg

L-CARNITINE

Carnitine is sometimes considered a non-essential amino acid which is synthesized in the liver and kidneys from lysine, methionine and other nutrients. It is critical in the metabolism of fat and transport of long-chain essential fatty acids as well as being cardiac protective.

Decreased

Normal

Increased

Fatty Acid Metabolism

1-Oral Electrolyte - Standard 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

Potassium
Sodium

CO2

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

1-Taurine 2x daily 500 mg

TAURINE

An amino-sulfonic acid and modulator of cation flux, especially for Ca. A neuromodulator indirectly depressing neuroexcitation through control over glutamate. It also mediates contractility in the cardiac muscle.

Decreased

Normal

Increased

Taurine - P

a-Aminoadipic Acid - P

1-Yeast Reduction Protocol2 See Nutrition Detail

YEAST REDUCTION PROTOCOL2

Because of the relative increase in the markers for yeast and fungi (Benzoate, Hippurate, Phenylacetate and Phenylpropionate) it may be helpful to begin a yeast reduction protocol. Avoiding refined carbohydrates such as sugar, alcohol and other yeast-containing products is recommended. The introduction of probiotics as well as glycine and pantothenic acid may be helpful balancing this ratio.

Probiotics - 2-3 times daily if D-Lactate is normal or low

Pantothenic acid - 100 mg 3 times daily

Glycine - 500 mg 3 times daily

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

Decreased

Normal

Increased

Bacteria2

Nutrition - Detail

Foundational Wellness Profile Date: 12/6/2004

Anna

Female / Age: 52

Anna

(2718)

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2-Betaine HCL 2 tablets at mealtime

BETAIN HCl

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.

Decreased

Proline - P

Rationale

Normal

Hydroxyproline - P

Increased

3-Methylhistidine - P

2-Glutathione (reduced) 2x daily 250 mg

GLUTATHIONE

Glutathione is a tripeptide made in the body from cysteine, glutamic acid and glycine. An accumulation of Pyroglutamate is indicative of glutathione depletion.

Decreased

Normal

Increased

Pyroglutamate

2-Glycine 2x daily 500 mg

GLYCINE

Glycine is an important amino acid and it is helpful in lowering the levels of Benzoate and Hippurate.

Decreased

Normal

Increased

Benzoate

Hippurate

2-Magnesium Citrate or Glycinate 2x daily 150 mg

MAGNESIUM (Mg)

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

Decreased

Normal

Increased

Ethanolamine - P

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.

Decreased

Normal

Increased

Serine - P

Threonine - P

Phosphoserine - P

2-Probiotics 1x daily 3 caps

PROBIOTICS

Probiotic strains address dysbiosis in the gastrointestinal tract.

Decreased

W.B.C.

Normal

Increased

Monocytes

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

Nutrition - Detail

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna (2718)

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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

Rationale

Normal

b-Alanine - P
1-Methylhistidine - P

Increased

Anserine - P

H - Black Cohosh 1 - 3 times daily Females only

BLACK COHOSH

The herb black cohosh (*Cimicifuga racemosa*) has been used primarily in the treatment of menstrual cramps and menopause. It must be absolutely avoided during pregnancy. As with any herb, caution should be taken with its use. Do not use if you are allergic to aspirin.

Decreased

Normal

Increased

Cholesterol
LDL

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

AVOID THE FOLLOWING SUPPLEMENTS

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

Drug Interactions

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna

(2718)

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.

Acetaminophen	Allopurinol(2)	Amantadine	Amitriptyline
Amoxicillin	Ampicillin(3)	Aspirin	Aspirin(3)
Busulfan	Carbamazepine(3)	Chlorpromazine(4)	Clindamycin(2)
Clofibrate(2)	Cortisol	Cortisone	Desipramine(2)
Diazepam	Epinephrine	Erythromycin(2)	Fluorides(2)
Fluphenazine(2)	Furosemide(2)	Gentamicin	Griseofulvin(2)
Haloperidol(3)	Hydrocortisone(2)	Hydroxyurea	Ibuprofen(4)
Imipramine(4)	Indomethacin(2)	Itraconazole	Kanamycin(2)
Levodopa	Levothyroxine	Lincomycin	Lithium(3)
MAO Inhibitors(2)	Mercaptopurine	Methimazole(2)	Methotrexate(2)
Methyldopa(4)	Miconazole(3)	Naproxen	Neomycin
Nitrofurantoin(2)	Paramethadione(2)	Penicillamine(3)	Penicillin(2)
Phenelzine	Phenobarbital(2)	Phenylbutazone(3)	Phenytoin(3)
Piroxicam	Polythiazide(3)	Prednisone(4)	Procainamide(2)
Procarbazine	Propranolol(2)	Protriptyline(2)	Prozac
Reserpine(2)	Rifampin(2)	Streptomycin(2)	Sulfamethizole
Sulfamethoxazole(2)	Sulfasalazine(2)	Sulfisoxazole(2)	Tamoxifen(3)
Tetracycline(2)	Triameterene	Trimethadione(2)	Tromethamine
Valproic Acid	Vancomycin	Viomycin(4)	

Panel/Subset Report

Anna
Female / Age: 52

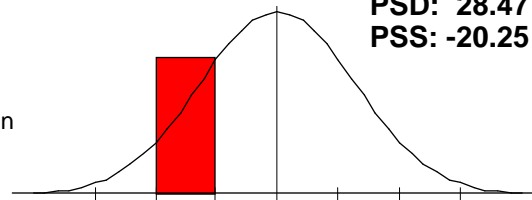
Foundational Wellness Profile Date: 12/6/2004

Anna (2718)

Ammonia/Energy

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

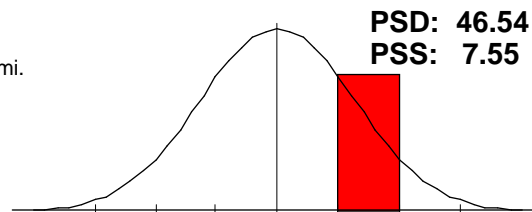
A panel profile such as this may be indicative of inadequate protein intake, poor absorption or poor quality protein intake.



CNS Metabolism

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

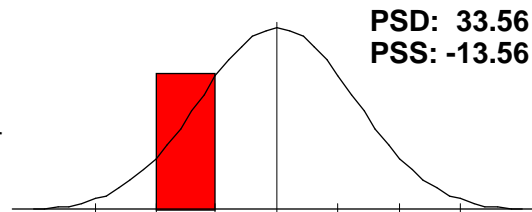
A profile such as this may be indicative of an overexcited central nervous system. Hyperactivity, inability to relax may be additional clinical signs



Connective Tissue

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

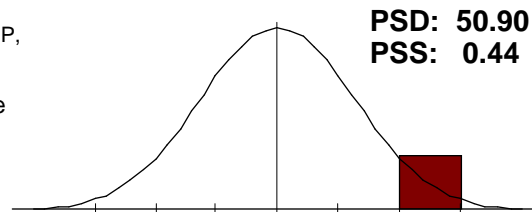
A profile such as this may be indicative of poor collagen and other tissue formation.



Essential Amino Acid

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

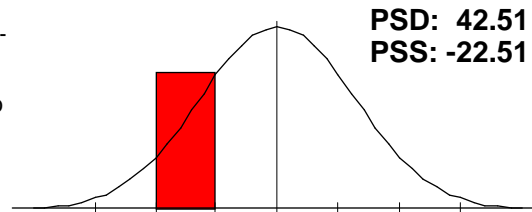
A profile such as this may be indicative of excessive protein intake or poor elimination and metabolism.



Fat Metabolism

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

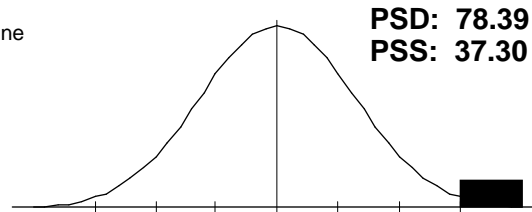
A panel profile such as this may indicate an inability of the body to properly metabolize dietary fats. Check for dysbiosis, or try supplementation with lipase digestive enzymes as well as broad spectrum amino acids.



Gluconeogen

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

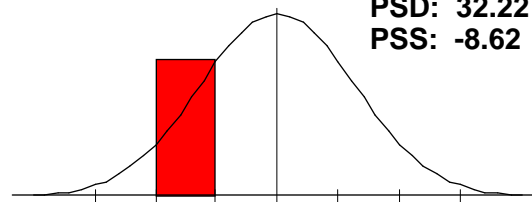
A panel profile such as this may be indicative of excessive dietary intake of proteins.



Hepatic Metabolism

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

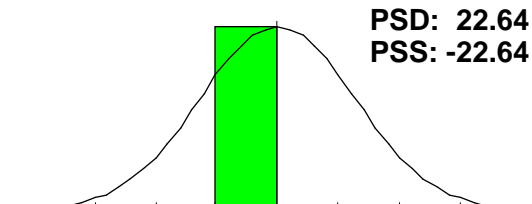
A panel profile such as this may be indicative of an underfunctioning liver or poor dietary protein intake.



Immune Metabolites

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

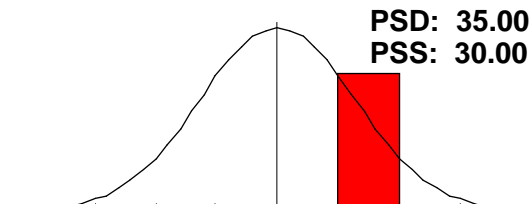
The panel profile seen here is indicative of having adequate amounts of the listed amino acids needed for proper immune system responses.



Muscle Metabolites

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

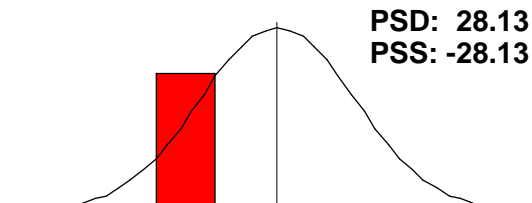
This panel profile may be indicative of abnormal protein metabolism especially if 1-methylhistidine is elevated.



Neuroendocrine Met.

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

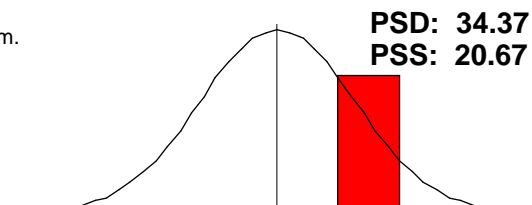
This panel profile may be indicative of an underfunctioning endocrine system or poor dietary intake of protein.



Adrenal Function

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

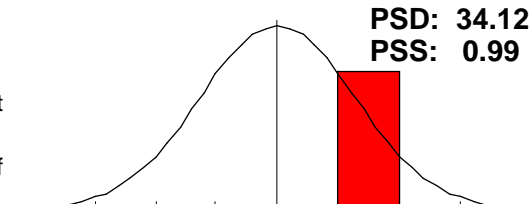
This profile may be in part due to poor nutritional habits, allergies and inadequate fluid intake. Clinical signs may include inability to handle stress, poor circulation, and fatigue.



Allergy

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

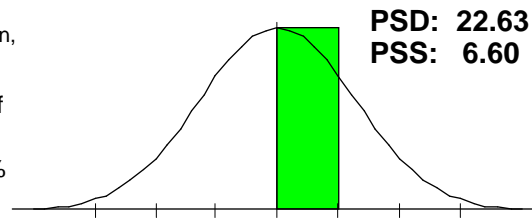
This panel profile may be due to allergies or a compromised immune system. Review the Differential and the Differential Count Panels for additional information. If Eosinophils are up and the CO2 is normal or depressed the likelihood of allergies is higher. If the Eosinophils and the CO2 are elevated than suspect parasites.



Anti Oxidant Status

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

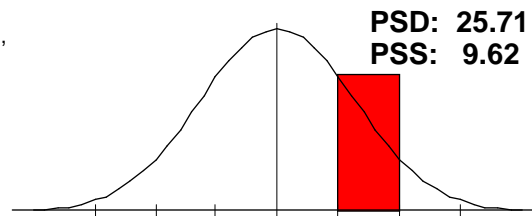
The elements in this panel help represent the antioxidant status of the individual. Excesses or deficiencies in this panel may indicate the need for additional antioxidants. The deviation was below 25% so no abnormalities were found.



Athletic Potential

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

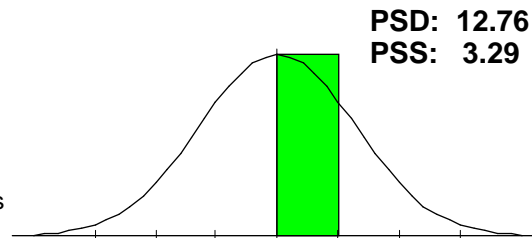
This profile indicates that the patient should have a complete physical before embarking on any exercise routine.



Bone/Joint

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

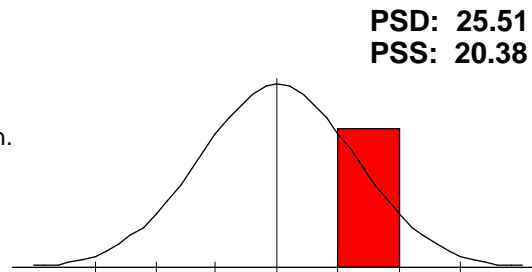
This panel may be helpful in assessing bone and joint health. Keeping the elements of this panel in a normal range may be helpful in reducing the risk of osteoporosis and other bone and joint disorders. The deviation was below 25% so no abnormalities were found.



Cardiac Marker

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

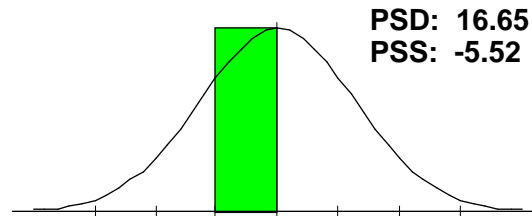
The profile shown here indicates that this individual may be at a greater risk for coronary heart disease than the general population. A review of dietary, environmental and personal habits should be done and appropriate lifestyle changes made. If both triglycerides and cholesterol are elevated, a regime of exercise and dietary changes are more likely to exhibit benefits.



Cellular Distortions

Alkaline Phosphatase, Anion Gap[L], 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.



Panel/Subset Report

Anna
Female / Age: 52

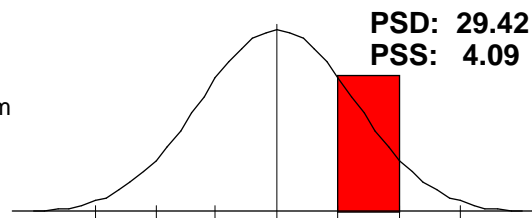
Foundational Wellness Profile Date: 12/6/2004

Anna (2718)

Differential

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

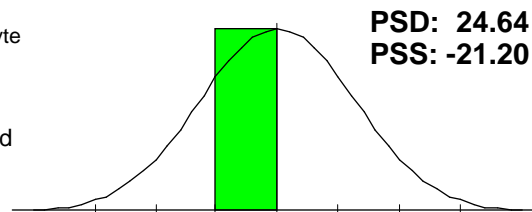
This panel profile may be indicative of a heightened immune system response. A careful review of the individual components of this panel is recommended.



Differential Count

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

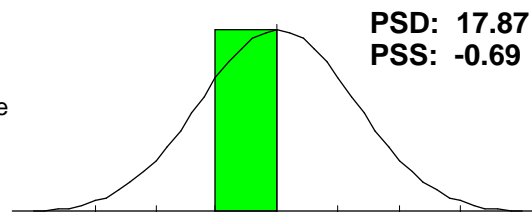
This panel may be helpful in assessing immune system health. Excesses or deficiencies in this panel may indicate a compromised immune system. The deviation was below 25% so no abnormalities were found.



Electrolyte

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

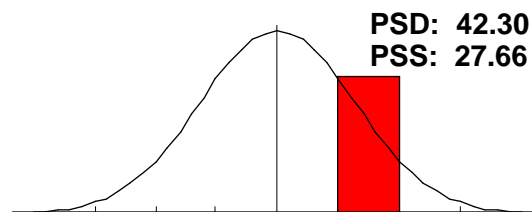
This panel is a representation of electrolyte balance in blood. Balance is critical in maintaining and achieving optimal health. The deviation was below 25% so no abnormalities were found.



Gastrointest. Function

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

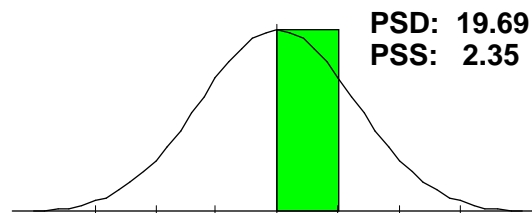
This panel profile indicates the need for further evaluation of gastrointestinal integrity, digestion and absorption. Check for dysbiosis, food allergies or "leaky gut" syndrome.



Hematology

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

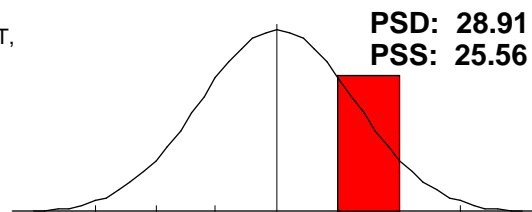
The hematology panel assesses the production of red blood cells and their function. The deviation was below 25% so no abnormalities were found.



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.



Panel/Subset Report

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

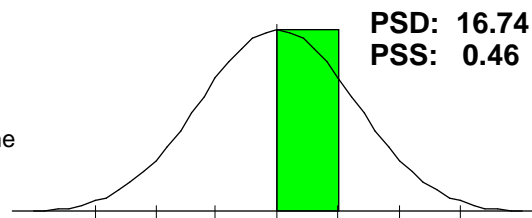
Anna

(2718)

Kidney Function

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

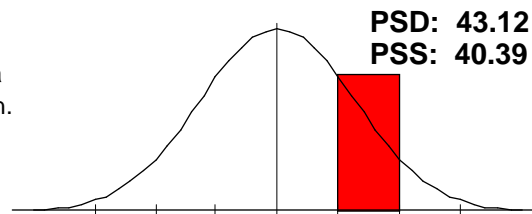
This panel may be helpful in assessing kidney function. It is important to keep the elements of this subset in balance to help the body eliminate waste material. The deviation was below 25% so no abnormalities were found.



Lipid

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

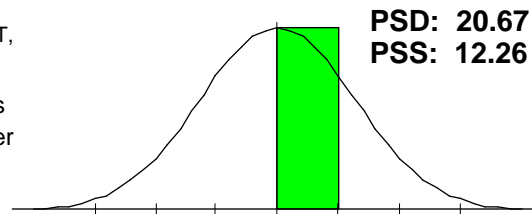
The panel profile seen here suggests that the patient may be at a greater risk for coronary heart disease than the general population. A dietary evaluation should be undertaken as well to educate the patient about saturated and trans fats.



Liver Function

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

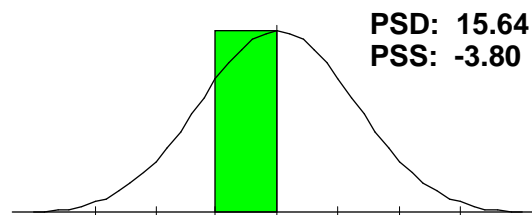
Assessing liver function is important in determining the individual's ability to detoxify itself as well as processing amino acids and other important biological processes. The deviation was below 25% so no abnormalities were found.



Nitrogen

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

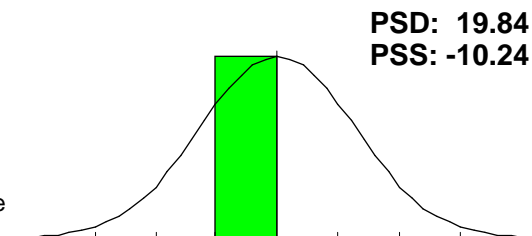
Nitrogen is an important element in achieving optimal wellness. The elements in this panel are important in determining nitrogen competency. The deviation was below 25% so no abnormalities were found.



Protein

A/G Ratio[L], Albumin, Globulin, Protein, Total, Protein/Globulin
Ratio[L].

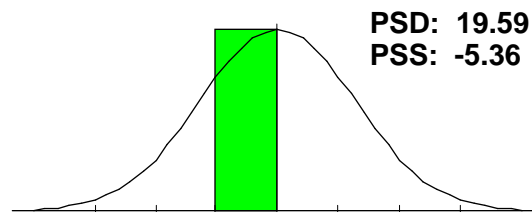
Proteins are the basic building blocks of hormones, muscle, neurotransmitters, immune systems responses and more. Assessing their competency is crucial in achieving optimal wellness. The deviation was below 25% so no abnormalities were found.



Pulmonary Function

Anion Gap[L], Calcium, CO2[H], 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.



Panel/Subset Report

Anna

Female / Age: 52

Foundational Wellness Profile Date: 12/6/2004

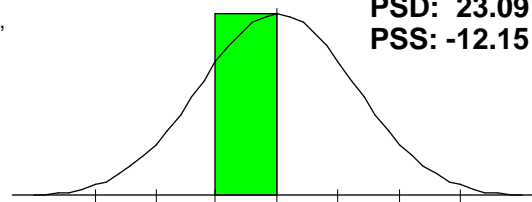
Anna

(2718)

Ratios

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

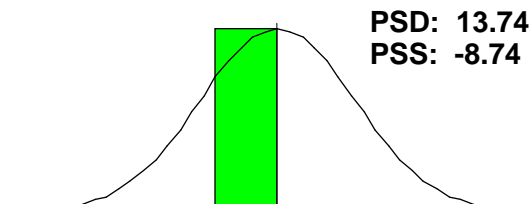
This panel may be helpful in determining the general balance of the overall chemistry of the individual. The deviation was below 25% so no abnormalities were found.



Thyroid

Thyroxine (T4), T-3 Uptake, Free T4 Index (T7).

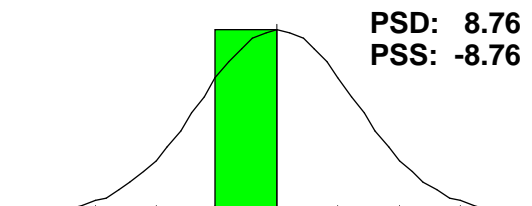
This panel may be helpful in determining the overall health of the thyroid gland. The deviation was below 25% so no abnormalities were found.



Amino Acid Catabolism

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

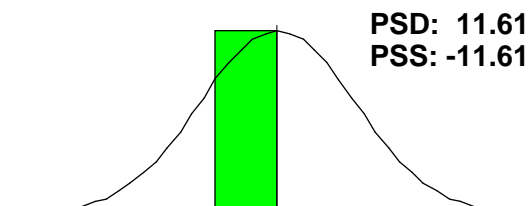
A normal reading in this panel suggest proper amino acid stores.



B-Complex Markers

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

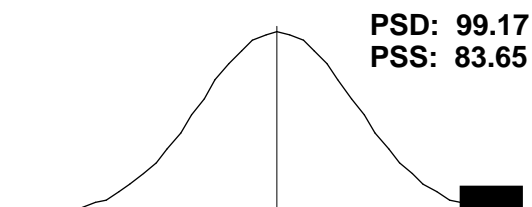
A normal panel profile such as this is an indicator of adequate intake of B-complex vitamins.



CAC Cycle Ratios

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

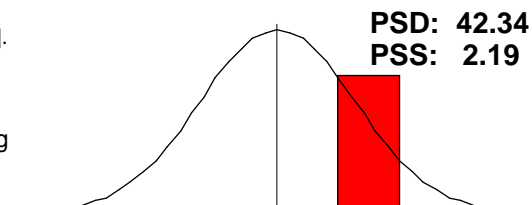
This panel reflects steps of the citric acid cycle. A high reading may be indicative of poor energy production and/or vitamin, mineral and amino acid deficiencies.



Carbohydrate Metabolism

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

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.



Panel/Subset Report

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

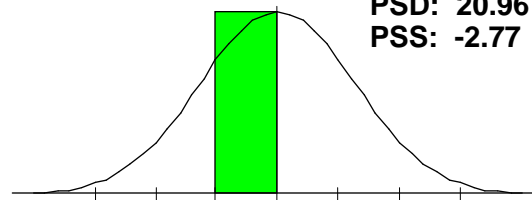
Anna

(2718)

Citric Acid Cycle

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

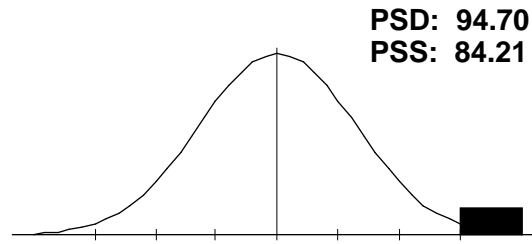
A normal reading such as this is consistent with a properly functioning citric acid cycle.



Intestinal Dysbiosis

Hippurate[H], Benzoate, p-Hydroxybenzoate[L],
p-Hydroxyphenyllactate[H], Phenylacetate, Phenylpropionate[H],
Tricarballic acid, DHPP, Indican.

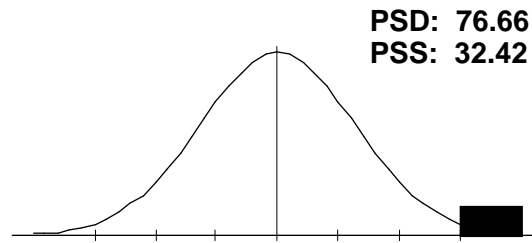
This panel profile may be indicative of intestinal dysbiosis. Poor absorption and metabolism of proteins, fats and carbohydrates may occur. A review of potential bacteria, protozoa, Clostridial spp., yeast or fungus may be necessary.



Liver Detox Indicators

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

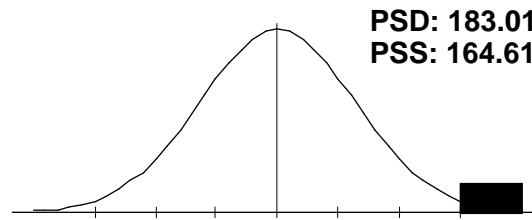
This panel profile may be due in part to environmental toxins, improper regulation of cell growth, hereditary deficiencies, and a depressed ability of the liver to detoxify itself. A program of detoxification may be helpful in this case. Review Nutritional Status for additional recommendations.



Neurotransmitters

Vanillylmandelate[L], Homovanillate, 5-Hydroxyindoleacetate[H],
Kynurenate, Quinolate[H].

The panel profile seen here may be due to the use of serotonin re-uptake inhibitors such as Prozac or poor catecholamine catabolism.



Clinical Correlation

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna (2718)

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.

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

Decreased Normal Increased
-33.33 Aspartic Acid - P

Mild Hyperammonemia () 100.00% (1 of 1)

Decreased Normal Increased
-26.19 Glutamic Acid - P

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

Decreased Normal Increased
-44.50 Taurine - P

Potential Parasitic Involvement () 100.00% (2 of 2)

Decreased Normal Increased
25.00 CO2
50.00 Eosinophils

When eosinophils and CO2 are elevated, suspect possible parasitic involvement. Additional testing procedures which may be helpful include organic acids in urine.

Recuperative Capability Impaired () 100.00% (1 of 1)

Decreased Normal Increased
-29.70 Protein/Globulin Ratio

Tryptophanemia () 100.00% (1 of 1)

Decreased Normal Increased
256.67 Tryptophan - P

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

Muscle/Collagen Catabolism () 80.00% (4 of 5)

Decreased Normal Increased
-42.73 Leucine - P
-51.20 Valine - P
50.00 Hydroxylysine - P
-25.93 Proline - P
30.00 3-Methylhistidine - P

This profile may be indicative of an individual who is either catabolising their muscle tissue or is unable to build proper muscle tissue due to amino acid deficiencies. Further investigation into amino acid competency may be helpful.

Ammonia Toxicity/Buildup () 75.00% (3 of 4)

Decreased Normal Increased
-47.27 Isoleucine - P
-33.33 Aspartic Acid - P
-26.19 Glutamic Acid - P
-36.44 Glutamine - P

Clinical Correlation

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna (2718)

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 ()

66.67% (4 of 6)

Decreased

Normal
-8.18 HDL-Cholesterol

Increased
79.00 Cholesterol
11.76 Glucose
47.99 Triglycerides
-1.72 Uric Acid
123.53 LDL

Review family history or personal history of cardiovascular risk factors such as smoking, excessive alcohol intake, high fat diet, and/or sedentary lifestyle.

Comparison Progress Report

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna (2718)

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

	Status % on: 5/25/2004		12/6/2004		+/- change
Tryptophan - P	-26.67	L	256.67	H	- 230.00
Sarcosine - P	-10.00		70.00	H	- 60.00
Cystine - P	-10.00		-40.00	L	- 30.00
Alanine - P	-3.43		32.57	H	- 29.14
Hydroxyproline - P	270.00	H	-6.67		+ 263.33
Glycine/Serine Ratio	75.88	H	25.44	H	+ 50.44
Collagen Related AA	122.00	H	73.33	H	+ 48.67
Lysine - P	-36.00	L	-10.00		+ 26.00
Tyrosine - P	-27.14	L	-1.43		+ 25.71
Cystathionine - P	25.00	H	0.00		+ 25.00

Comparison Report

Anna

Female / Age: 52

Foundational Wellness Profile Date: 12/6/2004

Anna (2718)

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:	5/25/2004	12/6/2004
				1-Methylhistidine - P	-5.00 -10.00
				3-Methylhistidine - P	30.00 H 30.00 H
-12.50 → 25.00	-			a-Aminoadipic Acid - P	-12.50 25.00 H
				a-Amino-N-Butyric Acid - P	16.67 -16.67
-3.43 → 32.57	-			Alanine - P	-3.43 32.57 H
				Anserine - P	50.00 H 50.00 H
-16.36 → -5.45	+			Arginine - P	-16.36 -5.45
				Asparagine - P	-48.82 L -44.12 L
-45.00 → -33.33	+			Aspartic Acid - P	-45.00 L -33.33 L
				b-Alanine - P	-10.00 -10.00
				b-Aminoisobutyric Acid - P	0.00 0.00
				Carnosine - P	50.00 H 50.00 H
-35.45 ← -22.73	-			Citrulline - P	-22.73 -35.45 L
73.33 ← 122.00	+			Collagen Related AA	122.00 H 73.33 H
0.00 ← 25.00	+			Cystathionine - P	25.00 H 0.00
-40.00 ← -10.00	-			Cystine - P	-10.00 -40.00 L
25.00 → 37.50	-			Ethanolamine - P	25.00 H 37.50 H
				GABA - P	-10.00 -10.00
-49.05 → -26.19	+			Glutamic Acid - P	-49.05 L -26.19 L
-36.44 ← -24.44	-			Glutamine - P	-24.44 -36.44 L
-38.89 ← -22.00	-			Glycine - P	-22.00 -38.89 L
25.44 ← 75.88	+			Glycine/Serine Ratio	75.88 H 25.44 H
-45.71 → -21.43	+			Histidine - P	-45.71 L -21.43
				Homocystine - P	50.00 H 50.00 H
				Hydroxylysine - P	50.00 H 50.00 H
-6.67 ← 270.00	+			Hydroxyproline - P	270.00 H -6.67
-57.27 → -47.27	+			Isoleucine - P	-57.27 L -47.27 L
-52.73 → -42.73	+			Leucine - P	-52.73 L -42.73 L
-36.00 → -10.00	+			Lysine - P	-36.00 L -10.00
-30.00 → -22.00	+			Methionine - P	-30.00 L -22.00
				Ornithine - P	-26.67 L -30.67 L
-50.00 → -34.21	+			Phenylalanine - P	-50.00 L -34.21 L
				Phenylalanine/Tyrosine	-34.85 L -32.14 L
				Phosphoethanolamine - P	10.00 3.33
0.00 ← 16.67	+			Phosphoserine - P	16.67 0.00
-25.93 ← 1.11	-			Proline - P	1.11 -25.93 L
-10.00 → 70.00	-			Sarcosine - P	-10.00 70.00 H
-54.17 → -45.83	+			Serine - P	-54.17 L -45.83 L
				Taurine - P	-38.50 L -44.50 L
-34.67 → -18.00	+			Threonine - P	-34.67 L -18.00
-26.67 → 256.67	-			Tryptophan - P	-26.67 L 256.67 H
-27.14 → -1.43	+			Tyrosine - P	-27.14 L -1.43
				Valine - P	-52.00 L -51.20 L
				Total Status Deviation	39.07 34.45
				Total Status Skew	-4.63 -1.68

Comparison Progress Report

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna (2718)

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

	Status % on:	5/25/2004	12/6/2004	+/- change
Triglycerides		-9.73	47.99 H	- 38.26
B.U.N./Creatinine Ratio		63.16 H	23.68	+ 39.47
Basophils		-50.00 L	-16.67	+ 33.33
sGPT		42.50 H	10.00	+ 32.50
HDL-Cholesterol		39.09 H	-8.18	+ 30.91
sGOT		37.50 H	7.50	+ 30.00

Comparison Report

Anna

Female / Age: 52

Foundational Wellness Profile Date: 12/6/2004

Anna (2718)

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:	5/25/2004	12/6/2004
				A/G Ratio	-30.36 L -35.50 L
				Albumin	-5.00 -10.00
21.20	← 30.00	+		Alkaline Phosphatase	30.00 H 21.20
				Anion Gap	38.33 H -31.67 L
-7.14	← 30.95	+		B.U.N.	30.95 H -7.14
23.68	← 63.16	+		B.U.N./Creatinine Ratio	63.16 H 23.68
-50.00	→ -25.50	+		Basophil Count	-50.00 L -25.50 L
-50.00	→ -16.67	+		Basophils	-50.00 L -16.67
				Bilirubin, Total	-13.64 -13.64
-21.43	← -11.90	-		Calcium	-11.90 -21.43
				Calcium/Phosphorus Ratio	-35.26 L -40.53 L
3.85	→ 11.54	-		Chloride	3.85 11.54
				Cholesterol	72.00 H 79.00 H
-16.67	→ 25.00	-		CO2	-16.67 25.00 H
-30.00	← -20.00	-		Creatinine	-20.00 -30.00 L
				Eosinophil Count	-14.40 8.60
				Eosinophils	50.00 H 50.00 H
-31.08	→ -22.97	+		Free T4 Index (T7)	-31.08 L -22.97
				GGT	-13.33 -10.00
				Globulin	6.67 10.00
11.76	← 23.53	+		Glucose	23.53 11.76
-8.18	← 39.09	+		HDL-Cholesterol	39.09 H -8.18
				Hematocrit	-7.14 -3.00
-15.00	→ 7.14	+		Hemoglobin	-15.00 7.14
				Iron, Total	-12.50 -10.83
17.33	← 35.33	+		LDH	35.33 H 17.33
100.00	→ 123.53	-		LDL	100.00 H 123.53 H
-54.80	→ -46.72	+		Lymphocyte Count	-54.80 L -46.72 L
-56.67	→ -46.67	+		Lymphocytes	-56.67 L -46.67 L
				MCH	29.23 H 26.77 H
-32.93	→ 22.09	+		MCHC	-32.93 L 22.09
21.14	← 36.46	+		MCV	36.46 H 21.14
-30.00	→ -12.33	+		Monocyte Count	-30.00 L -12.33
				Monocytes	26.92 H 27.78 H
				Neutrophil Count	-37.35 L -30.03 L
6.00	← 30.00	+		Neutrophils	30.00 H 6.00
				Phosphorus	15.00 15.00
-15.00	← 5.00	-		Potassium	5.00 -15.00
				Protein, Total	14.00 14.00
				Protein/Globulin Ratio	-22.50 -29.70 L
-30.00	→ -21.54	+		R.B.C.	-30.00 L -21.54
7.50	← 37.50	+		sGOT	37.50 H 7.50
10.00	← 42.50	+		sGPT	42.50 H 10.00
-19.23	← -3.85	-		Sodium	-3.85 -19.23
				T-3 Uptake	10.00 10.00
-32.67	→ -22.00	+		Thyroxine (T4)	-32.67 L -22.00
-9.73	→ 47.99	-		Triglycerides	-9.73 47.99 H
-10.34	→ -1.72	+		Uric Acid	-10.34 -1.72
-53.08	→ -36.15	+		W.B.C.	-53.08 L -36.15 L
				Total Status Deviation	28.72 23.49
				Total Status Skew	0.28 0.76

Comparison Progress Report

Anna

Female / Age: 52

Foundational Wellness Profile Date: 12/6/2004

Anna (2718)

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

	Status % on: 5/25/2004		12/6/2004		+/- change
Phenylpropionate	35.71	H	950.00	H	- 914.29
CA Cycle Phase 6	136.67	H	381.37	H	- 244.71
Bacteria2	-17.86		235.71	H	- 217.86
Quinolate	1.43		138.57	H	- 137.14
CA Cycle Phase 5	-31.80	L	148.82	H	- 117.02
2-Methylhippurate	27.03	H	139.19	H	- 112.16
Pyroglutamate	52.50	H	156.25	H	- 103.75
Formiminoglutamic Acid	56.25	H	137.50	H	- 81.25
Hippurate	25.00	H	76.43	H	- 51.43
Lactate	-15.56		53.33	H	- 37.78
Glucarate	-13.76		-47.72	L	- 33.96
Pyruvate	-3.57		35.71	H	- 32.14
P-Hydroxyphenylacetate	-1.11		-30.00	L	- 28.89
Xanthurenate	390.00	H	20.00		+ 370.00
5-Hydroxyindoleacetate	1033.61	H	720.49	H	+ 313.11
Malate	150.00	H	28.57	H	+ 121.43
Sulfate	163.33	H	-55.00	L	+ 108.33
a-Ketoisovalerate	87.50	H	-10.00		+ 77.50
a-Hydroxybutyrate	106.36	H	-43.64	L	+ 62.73
a-Keto-b-methylvalerate	64.29	H	-14.29		+ 50.00
Indican	53.49	H	-3.49		+ 50.00
cis-Aconitate	69.12	H	-30.88	L	+ 38.24
CA Cycle Return	-51.06	L	-16.44		+ 34.62
a-Ketoglutarate	36.43	H	-6.43		+ 30.00
a-Ketoisocaproate	30.00	H	-2.00		+ 28.00
Hydroxymethylglutarate	38.71	H	-11.29		+ 27.42

Comparison Report

Anna

Female / Age: 52

Foundational Wellness Profile Date: 12/6/2004

Anna (2718)

The arrow's length is proportional to change. Left to right is increase. Right to left is decrease.
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		+/-	Status % on:		5/25/2004	12/6/2004
27.03		139.19	-	2-Methylhippurate	27.03 H	139.19 H
720.49		1033.61	+	5-Hydroxyindoleacetate	1033.61 H	720.49 H
				8-Hydroxy-2-deoxyguan	50.00 H	-46.36 L
		-40.48	-	Adipate	25.00 H	-40.48 L
-43.64		106.36	+	a-Hydroxybutyrate	106.36 H	-43.64 L
-14.29		64.29	+	a-Keto-b-methylvalerate	64.29 H	-14.29
-6.43		36.43	+	a-Ketoglutarate	36.43 H	-6.43
-2.00		30.00	+	a-Ketoisocaproate	30.00 H	-2.00
-10.00		87.50	+	a-Ketisovalerate	87.50 H	-10.00
8.82		30.39	+	Benzoate	30.39 H	8.82
-36.67		25.56	-	b-Hydroxybutyrate	25.56 H	-36.67 L
-10.91		33.64	+	b-Hydroxyisovalerate	33.64 H	-10.91
				CA Cycle Entry	151.28 H	153.47 H
-51.06		-16.44	+	CA Cycle Return	-51.06 L	-16.44
-30.88		69.12	+	cis-Aconitate	69.12 H	-30.88 L
-27.76		15.76	+	Citrate	-27.76 L	15.76
-23.75		12.50	-	DHPP	12.50	-23.75
-18.42		34.21	+	D-Lactate	34.21 H	-18.42
				Ethylmalonate	19.17	-14.17
56.25		137.50	-	Formiminoglutamic Acid	56.25 H	137.50 H
-33.00		50.00	+	Fumarate	50.00 H	-33.00 L
-47.72		-13.76	-	Glucarate	-13.76	-47.72 L
25.00		76.43	-	Hippurate	25.00 H	76.43 H
				Homovanillate	-6.36	10.00
-11.29		38.71	+	Hydroxymethylglutarate	38.71 H	-11.29
-3.49		53.49	+	Indican	53.49 H	-3.49
				Isocitrate	20.00	-13.33
				Kynurenate	-12.50	-20.00
-15.56		53.33	-	Lactate	-15.56	53.33 H
28.57		150.00	+	Malate	150.00 H	28.57 H
				Methylmalonate	-20.83	-20.83
31.82		50.00	+	Orotate	50.00 H	31.82 H
				Phenylacetate	-28.57 L	21.43
35.71		950.00	-	Phenylpropionate	35.71 H	950.00 H
-40.91		-22.73	-	p-Hydroxybenzoate	-22.73	-40.91 L
-30.00		-1.11	-	p-Hydroxyphenylacetate	-1.11	-30.00 L
65.07		86.99	-	p-Hydroxyphenyllactate	65.07 H	86.99 H
52.50		156.25	-	Pyroglutamate	52.50 H	156.25 H
-3.57		35.71	-	Pyruvate	-3.57	35.71 H
1.43		138.57	-	Quinolinate	1.43	138.57 H
				Suberate	12.96	-9.26
-12.63		28.42	-	Succinate	-12.63	28.42 H
-55.00		163.33	+	Sulfate	163.33 H	-55.00 L
19.23		34.62	+	Tricarballylate	34.62 H	19.23
-46.00		-26.00	+	Vanilylmandelate	-46.00 L	-26.00 L
20.00		390.00	+	Xanthurenate	390.00 H	20.00
Total Status Deviation					62.12	76.15
Total Status Skew					40.07	43.93

Panel/Subset Comparison Report

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna

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Ammonia/Energy	5/25/2004		12/6/2004	+/-	
Arginine - P	-16.36		-5.45	+	-16.36 -5.45
Threonine - P	-34.67	L	-18.00	+	-34.67 -18.00
Glycine - P	-22.00		-38.89	L -	-38.89 -22.00
Serine - P	-54.17	L	-45.83	L +	-54.17 -45.83
a-Aminoacidic Acid - P	-12.50		25.00	H -	-12.50 25.00
Asparagine - P	-48.82	L	-44.12	L	
Aspartic Acid - P	-45.00	L	-33.33	L +	-45.00 -33.33
Citrulline - P	-22.73		-35.45	L -	-35.45 -22.73
Glutamic Acid - P	-49.05	L	-26.19	L +	-49.05 -26.19
Glutamine - P	-24.44		-36.44	L -	-36.44 -24.44
Ornithine - P	-26.67	L	-30.67	L	
a-Amino-N-Butyric Acid - P	16.67		-16.67		
Alanine - P	-3.43		32.57	H -	-3.43 32.57
b-Alanine - P	-10.00		-10.00		
PSS / PSD	-25.23 / 27.61		-20.25 / 28.47		

CNS Metabolism	5/25/2004		12/6/2004	+/-	
Arginine - P	-16.36		-5.45	+	-16.36 -5.45
Tryptophan - P	-26.67	L	256.67	H -	-26.67 256.67
GABA - P	-10.00		-10.00		
Glycine - P	-22.00		-38.89	L -	-38.89 -22.00
Serine - P	-54.17	L	-45.83	L +	-54.17 -45.83
Taurine - P	-38.50	L	-44.50	L	
Aspartic Acid - P	-45.00	L	-33.33	L +	-45.00 -33.33
Glutamine - P	-24.44		-36.44	L -	-36.44 -24.44
Ethanolamine - P	25.00	H	37.50	H -	25.00 37.50
Phosphoethanolamine - P	10.00		3.33		
Phosphoserine - P	16.67		0.00	+	0.00 16.67
PSS / PSD	-16.86 / 26.26		7.55 / 46.54		

Connective Tissue	5/25/2004		12/6/2004	+/-	
Leucine - P	-52.73	L	-42.73	L +	-52.73 -42.73
Methionine - P	-30.00	L	-22.00	+	-30.00 -22.00
Valine - P	-52.00	L	-51.20	L	
Cystine - P	-10.00		-40.00	L -	-40.00 -10.00
Hydroxylysine - P	50.00	H	50.00	H	
Hydroxyproline - P	270.00	H	-6.67	+	270.00 -6.67
3-Methylhistidine - P	30.00	H	30.00	H	
Proline - P	1.11		-25.93	L -	-25.93 1.11
PSS / PSD	25.80 / 61.98		-13.56 / 33.56		

Panel/Subset Comparison Report

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna

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Essential Amino Acid	5/25/2004	12/6/2004	+/-	
Arginine - P	-16.36	-5.45	+	-16.36 -5.45
Histidine - P	-45.71 L	-21.43	+	-45.71 -21.43
Isoleucine - P	-57.27 L	-47.27 L	+	-57.27 -47.27
Leucine - P	-52.73 L	-42.73 L	+	-52.73 -42.73
Lysine - P	-36.00 L	-10.00	+	-36.00 -10.00
Methionine - P	-30.00 L	-22.00	+	-30.00 -22.00
Phenylalanine - P	-50.00 L	-34.21 L	+	-50.00 -34.21
Threonine - P	-34.67 L	-18.00	+	-34.67 -18.00
Tryptophan - P	-26.67 L	256.67 H	-	-26.67 256.67
Valine - P	-52.00 L	-51.20 L		
PSS / PSD	-40.14 / 40.14	0.44 / 50.90		

Fat Metabolism	5/25/2004	12/6/2004	+/-	
Arginine - P	-16.36	-5.45	+	-16.36 -5.45
Isoleucine - P	-57.27 L	-47.27 L	+	-57.27 -47.27
Leucine - P	-52.73 L	-42.73 L	+	-52.73 -42.73
Valine - P	-52.00 L	-51.20 L		
Taurine - P	-38.50 L	-44.50 L		
Glutamine - P	-24.44	-36.44 L	-	-24.44 -36.44
Sarcosine - P	-10.00	70.00 H	-	-10.00 70.00
PSS / PSD	-35.90 / 35.90	-22.51 / 42.51		

Gluconeogen	5/25/2004	12/6/2004	+/-	
Threonine - P	-34.67 L	-18.00	+	-34.67 -18.00
Tryptophan - P	-26.67 L	256.67 H	-	-26.67 256.67
Glycine - P	-22.00	-38.89 L	-	-22.00 -38.89
Serine - P	-54.17 L	-45.83 L	+	-54.17 -45.83
Alanine - P	-3.43	32.57 H	-	-3.43 32.57
PSS / PSD	-28.19 / 28.19	37.30 / 78.39		

Hepatic Metabolism	5/25/2004	12/6/2004	+/-	
Methionine - P	-30.00 L	-22.00	+	-30.00 -22.00
Taurine - P	-38.50 L	-44.50 L		
Glutamine - P	-24.44	-36.44 L	-	-24.44 -36.44
Cystine - P	-10.00	-40.00 L	-	-10.00 -40.00
Cystathionine - P	25.00 H	0.00	+	25.00 0.00
Homocystine - P	50.00 H	50.00 H		
Alanine - P	-3.43	32.57 H	-	-3.43 32.57
PSS / PSD	-4.48 / 25.91	-8.62 / 32.22		

Immune Metabolites	5/25/2004	12/6/2004	+/-	
Arginine - P	-16.36	-5.45	+	-16.36 -5.45
Threonine - P	-34.67 L	-18.00	+	-34.67 -18.00
Glutamine - P	-24.44	-36.44 L	-	-24.44 -36.44
Ornithine - P	-26.67 L	-30.67 L		
PSS / PSD	-25.54 / 25.54	-22.64 / 22.64		

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Anna

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Female / Age: 52

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Muscle Metabolites	5/25/2004		12/6/2004		+/-
Anserine - P	50.00	H	50.00	H	
Carnosine - P	50.00	H	50.00	H	
1-Methylhistidine - P	-5.00		-10.00		
3-Methylhistidine - P	30.00	H	30.00	H	
PSS / PSD	31.25 / 33.75		30.00 / 35.00		

Neuroendocrine Met.	5/25/2004		12/6/2004		+/-
GABA - P	-10.00		-10.00		
Glycine - P	-22.00		-38.89	L	- -22.00
Serine - P	-54.17	L	-45.83	L	+ -54.17
Taurine - P	-38.50	L	-44.50	L	
Tyrosine - P	-27.14	L	-1.43	+	-27.14
PSS / PSD	-30.36 / 30.36		-28.13 / 28.13		

Adrenal Function	5/25/2004		12/6/2004		+/-
Cholesterol	72.00	H	79.00	H	
Eosinophils	50.00	H	50.00	H	
Eosinophil Count	-14.40		8.60		
Potassium	5.00		-15.00	-	-15.00
Sodium	-3.85		-19.23	-	-19.23
PSS / PSD	21.75 / 29.05		20.67 / 34.37		

Allergy	5/25/2004		12/6/2004		+/-
Eosinophils	50.00	H	50.00	H	
Globulin	6.67		10.00		
Lymphocytes	-56.67	L	-46.67	L	+ -56.67
Monocytes	26.92	H	27.78	H	
W.B.C.	-53.08	L	-36.15	L	+ -53.08
PSS / PSD	-5.23 / 38.67		0.99 / 34.12		

Anti Oxidant Status	5/25/2004		12/6/2004		+/-
Anion Gap	38.33	H	-31.67	L	
Bilirubin, Total	-13.64		-13.64		
Chloride	3.85		11.54	-	3.85
Cholesterol	72.00	H	79.00	H	
Glucose	23.53		11.76	+	11.76
Iron, Total	-12.50		-10.83		
PSS / PSD	15.94 / 23.41		6.60 / 22.63		

Athletic Potential	5/25/2004		12/6/2004		+/-
B.U.N./Creatinine Ratio	63.16	H	23.68	+	23.68
Cholesterol	72.00	H	79.00	H	
CO2	-16.67		25.00	H	-16.67
Creatinine	-20.00		-30.00	L	-20.00
LDH	35.33	H	17.33	+	17.33
Potassium	5.00		-15.00	-	-15.00
Protein, Total	14.00		14.00		
Sodium	-3.85		-19.23	-	-19.23
HDL-Cholesterol	39.09	H	-8.18	+	-8.18
PSS / PSD	20.90 / 29.90		9.62 / 25.71		

Panel/Subset Comparison Report

Anna
Female / Age: 52

Foundational Wellness Profile Date: 12/6/2004

Anna (2718)

Bone/Joint	5/25/2004		12/6/2004	+/-	
Albumin	-5.00		-10.00		
Alkaline Phosphatase	30.00 H		21.20	+	21.20 ← 30.00
Calcium	-11.90		-21.43	-	-21.43 ← -11.90
Neutrophils	30.00 H		6.00	+	6.00 ← 30.00
Phosphorus	15.00		15.00		
Protein, Total	14.00		14.00		
Uric Acid	-10.34		-1.72	+	-10.34 → -1.72
PSS / PSD	8.82 / 16.61		3.29 / 12.76		

Cardiac Marker	5/25/2004		12/6/2004	+/-	
Cholesterol	72.00 H		79.00 H		
GGT	-13.33		-10.00		
Iron, Total	-12.50		-10.83		
LDH	35.33 H		17.33	+	17.33 ← 35.33
sGOT	37.50 H		7.50	+	7.50 ← 37.50
Triglycerides	-9.73		47.99 H	-	-9.73 → 47.99
Uric Acid	-10.34		-1.72	+	-10.34 → -1.72
HDL-Cholesterol	39.09 H		-8.18	+	-8.18 ← 39.09
LDL	100.00 H		123.53 H	-	100.00 → 123.53
PSS / PSD	19.83 / 27.49		20.38 / 25.51		

Cellular Distortions	5/25/2004		12/6/2004	+/-	
Alkaline Phosphatase	30.00 H		21.20	+	21.20 ← 30.00
Anion Gap	38.33 H		-31.67 L		
GGT	-13.33		-10.00		
Iron, Total	-12.50		-10.83		
LDH	35.33 H		17.33	+	17.33 ← 35.33
Neutrophils	30.00 H		6.00	+	6.00 ← 30.00
W.B.C.	-53.08 L		-36.15 L	+	-53.08 → -36.15
PSS / PSD	6.84 / 26.57		-5.52 / 16.65		

Differential	5/25/2004		12/6/2004	+/-	
Basophils	-50.00 L		-16.67	+	-50.00 → -16.67
Eosinophils	50.00 H		50.00 H		
Lymphocytes	-56.67 L		-46.67 L	+	-56.67 → -46.67
Monocytes	26.92 H		27.78 H		
Neutrophils	30.00 H		6.00	+	6.00 ← 30.00
PSS / PSD	0.05 / 42.72		4.09 / 29.42		

Differential Count	5/25/2004		12/6/2004	+/-	
Basophil Count	-50.00 L		-25.50 L	+	-50.00 → -25.50
Eosinophil Count	-14.40		8.60		
Lymphocyte Count	-54.80 L		-46.72 L	+	-54.80 → -46.72
Monocyte Count	-30.00 L		-12.33	+	-30.00 → -12.33
Neutrophil Count	-37.35 L		-30.03 L		
PSS / PSD	-37.31 / 37.31		-21.20 / 24.64		

Panel/Subset Comparison Report

Anna
Female / Age: 52

Foundational Wellness Profile Date: 12/6/2004

Anna (2718)

Electrolyte	5/25/2004	12/6/2004	+/-		
Calcium	-11.90	-21.43	-	-21.43	← -11.90
Chloride	3.85	11.54	-	3.85	→ 11.54
CO2	-16.67	25.00	H	-16.67	→ 25.00
Phosphorus	15.00	15.00			
Potassium	5.00	-15.00	-	-15.00	← 5.00
Sodium	-3.85	-19.23	-	-19.23	← -3.85
PSS / PSD	-1.43 / 9.38	-0.69 / 17.87			

Gastrointest. Function	5/25/2004	12/6/2004	+/-		
Anion Gap	38.33	-31.67	H L		
Chloride	3.85	11.54	-	3.85	→ 11.54
Cholesterol	72.00	79.00	H H		
CO2	-16.67	25.00	H -	-16.67	→ 25.00
Monocytes	26.92	27.78	H H		
Potassium	5.00	-15.00	-	-15.00	← 5.00
Sodium	-3.85	-19.23	-	-19.23	← -3.85
Triglycerides	-9.73	47.99	H -	-9.73	→ 47.99
LDL	100.00	123.53	H H	100.00	→ 123.53
PSS / PSD	23.98 / 30.71	27.66 / 42.30			

Hematology	5/25/2004	12/6/2004	+/-		
Hematocrit	-7.14	-3.00			
Hemoglobin	-15.00	7.14	+	-15.00	→ 7.14
MCH	29.23	26.77	H H		
MCHC	-32.93	22.09	L +	-32.93	→ 22.09
MCV	36.46	21.14	H +	21.14	← 36.46
R.B.C.	-30.00	-21.54	L +	-30.00	→ -21.54
W.B.C.	-53.08	-36.15	L +	-53.08	→ -36.15
PSS / PSD	-10.35 / 29.12	2.35 / 19.69			

Inflammatory Process	5/25/2004	12/6/2004	+/-		
Eosinophils	50.00	50.00	H H		
Globulin	6.67	10.00			
LDH	35.33	17.33	H +	17.33	← 35.33
Neutrophils	30.00	6.00	H +	6.00	← 30.00
Potassium	5.00	-15.00	-	-15.00	← 5.00
sGOT	37.50	7.50	H +	7.50	← 37.50
sGPT	42.50	10.00	H +	10.00	← 42.50
Triglycerides	-9.73	47.99	H -	-9.73	→ 47.99
Uric Acid	-10.34	-1.72	+ +	-10.34	→ -1.72
LDL	100.00	123.53	H H	100.00	→ 123.53
PSS / PSD	28.69 / 32.71	25.56 / 28.91			

Panel/Subset Comparison Report

Anna

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Anna : (2718)

Kidney Function	5/25/2004		12/6/2004	+/-		
Albumin	-5.00		-10.00			
B.U.N.	30.95 H		-7.14	+	-7.14	← 30.95
B.U.N./Creatinine Ratio	63.16 H		23.68	+	23.68	← 63.16
Chloride	3.85		11.54	-	3.85	→ 11.54
CO2	-16.67		25.00 H	-	-16.67	→ 25.00
Creatinine	-20.00		-30.00 L	-	-30.00	← -20.00
Glucose	23.53		11.76	+	11.76	← 23.53
Potassium	5.00		-15.00	-	-15.00	← 5.00
Protein, Total	14.00		14.00			
Sodium	-3.85		-19.23	-	-19.23	← -3.85
PSS / PSD	9.50 / 18.60		0.46 / 16.74			

Lipid	5/25/2004		12/6/2004	+/-		
Cholesterol	72.00 H		79.00 H	H		
Triglycerides	-9.73		47.99 H	-	-9.73	→ 47.99
HDL-Cholesterol	39.09 H		-8.18	+	-8.18	← 39.09
LDL	100.00 H		123.53 H	-	100.00	→ 123.53
PSS / PSD	33.56 / 36.80		40.39 / 43.12			

Liver Function	5/25/2004		12/6/2004	+/-		
Albumin	-5.00		-10.00			
Alkaline Phosphatase	30.00 H		21.20	+	21.20	← 30.00
Bilirubin, Total	-13.64		-13.64			
Cholesterol	72.00 H		79.00 H	H		
GGT	-13.33		-10.00			
Protein, Total	14.00		14.00			
sGOT	37.50 H		7.50	+	7.50	← 37.50
sGPT	42.50 H		10.00	+	10.00	← 42.50
PSS / PSD	20.50 / 28.50		12.26 / 20.67			

Nitrogen	5/25/2004		12/6/2004	+/-		
B.U.N.	30.95 H		-7.14	+	-7.14	← 30.95
B.U.N./Creatinine Ratio	63.16 H		23.68	+	23.68	← 63.16
Creatinine	-20.00		-30.00 L	-	-30.00	← -20.00
Uric Acid	-10.34		-1.72	+	-10.34	→ -1.72
PSS / PSD	15.94 / 31.11		-3.80 / 15.64			

Protein	5/25/2004		12/6/2004	+/-		
A/G Ratio	-30.36 L		-35.50 L	L		
Albumin	-5.00		-10.00			
Globulin	6.67		10.00			
Protein, Total	14.00		14.00			
Protein/Globulin Ratio	-22.50		-29.70 L	L		
PSS / PSD	-7.44 / 15.70		-10.24 / 19.84			

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Anna
Female / Age: 52

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Anna (2718)

Pulmonary Function	5/25/2004		12/6/2004	+/-	
Anion Gap	38.33 H		-31.67 L		
Calcium	-11.90		-21.43	-	-21.43 -11.90
CO2	-16.67		25.00 H	-	-16.67 25.00
LDH	35.33 H		17.33	+	17.33 35.33
Potassium	5.00		-15.00	-	-15.00 5.00
sGOT	37.50 H		7.50	+	7.50 37.50
Sodium	-3.85		-19.23	-	-19.23 -3.85
PSS / PSD	11.96 / 21.23		-5.36 / 19.59		

Ratios	5/25/2004		12/6/2004	+/-	
A/G Ratio	-30.36 L		-35.50 L		
B.U.N./Creatinine Ratio	63.16 H		23.68	+	23.68 63.16
Calcium/Phosphorus Ratio	-35.26 L		-40.53 L		
Sodium/Potassium Ratio	-11.23		9.13		
Protein/Globulin Ratio	-22.50		-29.70 L		
PSS / PSD	-6.03 / 27.09		-12.15 / 23.09		

Thyroid	5/25/2004		12/6/2004	+/-	
Thyroxine (T4)	-32.67 L		-22.00	+	-32.67 -22.00
T-3 Uptake	10.00		10.00		
Free T4 Index (T7)	-31.08 L		-22.97	+	-31.08 -22.97
PSS / PSD	-16.85 / 21.85		-8.74 / 13.74		

Amino Acid Catabolism	5/25/2004		12/6/2004	+/-	
a-Ketoisovalerate	87.50 H		-10.00	+	-10.00 87.50
a-Ketoisocaproate	30.00 H		-2.00	+	-2.00 30.00
a-Keto-b-methylvalerate	64.29 H		-14.29	+	-14.29 64.29
PSS / PSD	60.60 / 60.60		-8.76 / 8.76		

B-Complex Markers	5/25/2004		12/6/2004	+/-	
b-Hydroxyisovalerate	33.64 H		-10.91	+	-10.91 33.64
a-Ketoisovalerate	87.50 H		-10.00	+	-10.00 87.50
a-Ketoisocaproate	30.00 H		-2.00	+	-2.00 30.00
a-Keto-b-methylvalerate	64.29 H		-14.29	+	-14.29 64.29
Methylmalonate	-20.83		-20.83		
PSS / PSD	38.92 / 47.25		-11.61 / 11.61		

CAC Cycle Ratios	5/25/2004		12/6/2004	+/-	
CA Cycle Entry	151.28 H		153.47 H		
CA Cycle Phase 1	-26.03 L		43.02 H	-	-26.03 43.02
CA Cycle Phase 2	-34.35 L		-25.40 L	+	-34.35 -25.40
CA Cycle Phase 3	-10.88		4.58		
CA Cycle Phase 4	-41.32 L		-20.25	+	-41.32 -20.25
CA Cycle Phase 5	-31.80 L		148.82 H	-	-31.80 148.82
CA Cycle Phase 6	136.67 H		381.37 H	-	136.67 381.37
CA Cycle Return	-51.06 L		-16.44	+	-51.06 -16.44
PSS / PSD	11.56 / 60.42		83.65 / 99.17		

Panel/Subset Comparison Report

Anna

Foundational Wellness Profile Date: 12/6/2004

Female / Age: 52

Anna (2718)

Carbohydrate Metabolism		5/25/2004	12/6/2004	+/-	
Lactate		-15.56	53.33	H -	-15.56 53.33
Pyruvate		-3.57	35.71	H -	-3.57 35.71
a-Hydroxybutyrate	106.36	H	-43.64	L +	-43.64 106.36
b-Hydroxybutyrate		25.56	-36.67	H -	-36.67 25.56
PSS / PSD		28.20 / 37.76	2.19 / 42.34		

Citric Acid Cycle		5/25/2004	12/6/2004	+/-	
Citrate		-27.76	15.76	L +	-27.76 15.76
cis-Aconitate		69.12	-30.88	H +	-30.88 69.12
Isocitrate		20.00	-13.33		
a-Ketoglutarate		36.43	-6.43	H +	-6.43 36.43
Succinate		-12.63	28.42	H -	-12.63 28.42
Fumarate		50.00	-33.00	H +	-33.00 50.00
Malate		150.00	28.57	H +	28.57 150.00
Hydroxymethylglutarate		38.71	-11.29	H +	-11.29 38.71
PSS / PSD		40.48 / 50.58	-2.77 / 20.96		

Intestinal Dysbiosis		5/25/2004	12/6/2004	+/-	
Hippurate		25.00	76.43	H -	25.00 76.43
Benzoate		30.39	8.82	H +	8.82 30.39
p-Hydroxybenzoate		-22.73	-40.91	L -	-40.91 -22.73
p-Hydroxyphenyllactate		65.07	86.99	H -	65.07 86.99
Phenylacetate		-28.57	21.43		
Phenylpropionate		35.71	950.00	H -	35.71 950.00
Tricarballicylate		34.62	19.23	H +	19.23 34.62
DHPP		12.50	-23.75	L -	-23.75 12.50
Indican		53.49	-3.49	H +	-3.49 53.49
PSS / PSD		18.39 / 26.29	84.21 / 94.70		

Liver Detox Indicators		5/25/2004	12/6/2004	+/-	
2-Methylhippurate		27.03	139.19	H -	27.03 139.19
Glucarate		-13.76	-47.72	L -	-47.72 -13.76
P-Hydroxyphenylacetate		-1.11	-30.00	L -	-30.00 -1.11
Orotate		50.00	31.82	H +	31.82 50.00
Pyroglutamate		52.50	156.25	H -	52.50 156.25
Sulfate		163.33	-55.00	H +	-55.00 163.33
PSS / PSD		46.33 / 51.29	32.42 / 76.66		

Neurotransmitters		5/25/2004	12/6/2004	+/-	
Vanilylmandelate		-46.00	-26.00	L +	-46.00 -26.00
Homovanillate		-6.36	10.00		
5-Hydroxyindoleacetate		1033.61	720.49	H +	720.49 1033.61
Kynurenate		-12.50	-20.00		
Quinolinolate		1.43	138.57	H -	1.43 138.57
PSS / PSD		194.03 / 219.98	164.61 / 183.01		