CELLMATE™ WELLNESS SYSTEMS

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FRANK

Test date: 10/17/2002
(accession: A0143344)
Entered: 10/18/2002

Next Test Due: 9/10/2003

CellMate™ Blood Test (CWP) Report

Practitioner

Printed on Thursday, April 3, 2003 for:

If there is a problem with this report, please contact us as soon as possible at: (775) 832-8485 or Fax (775) 832-8488

Basic Status Report (High/Low)

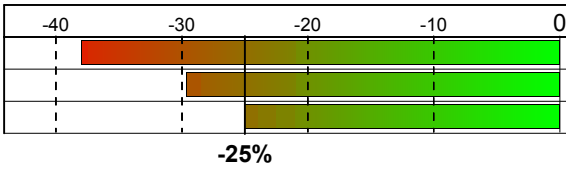
FRANK **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

Client ID:548664859 (9732)

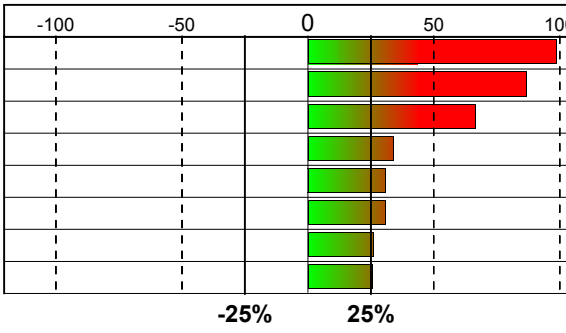
The % Status is the weighted deviation of the laboratory result.

Low Results



	% Status		Result	Low	High
Neutrophils	-38.00	L	**51.00**	48.00	73.00
Neutrophil Count	-29.68	L	**3060.00**	1800.00	8000.00
CO2	-25.00	L	**23.00**	20.00	32.00

High Results



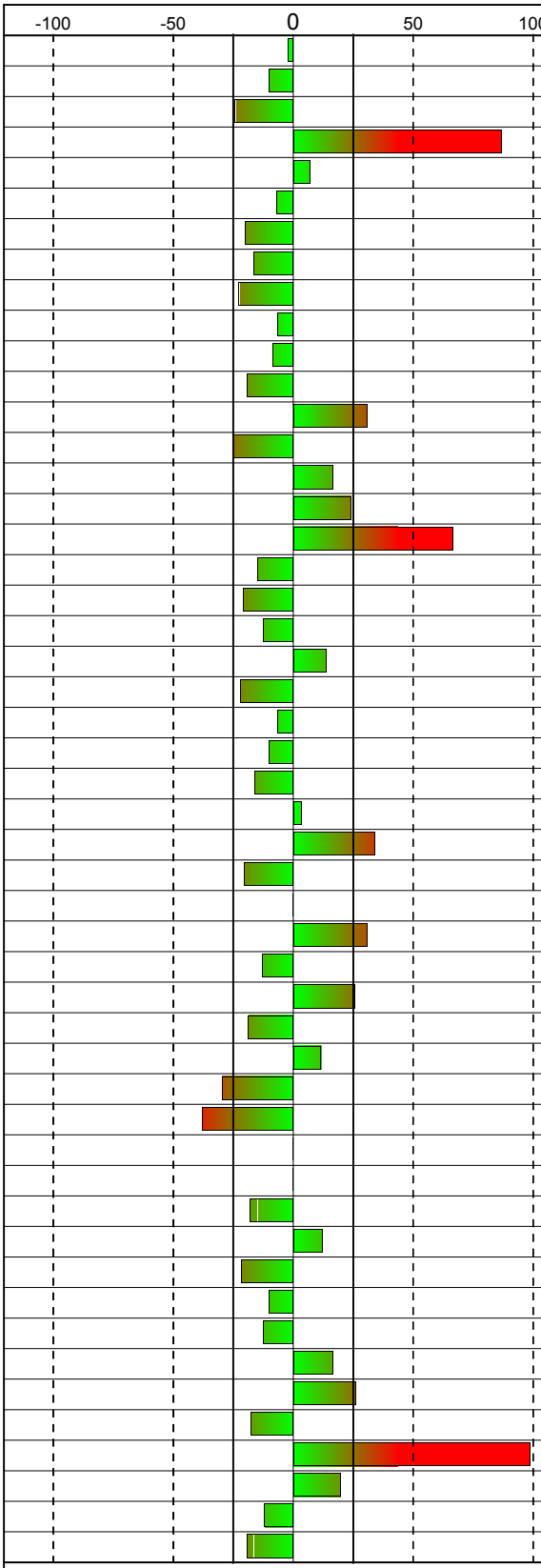
	% Status		Result	Low	High
Triglycerides	98.74	H	**296.00**	0.00	199.00
Anion Gap	86.67	H	**24.40**	8.00	20.00
Eosinophils	66.67	H	**7.00**	0.00	6.00
LDL	33.82	H	**119.00**	62.00	130.00
Cholesterol	31.00	H	**221.00**	140.00	240.00
MCH	30.79	H	**31.85**	27.00	33.00
T-3 Uptake	26.00	H	**35.40**	24.00	39.00
MCV	25.58	H	**95.12**	80.00	100.00

Basic Status Report (Alphabetic)

FRANK — **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

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



	% Status		Result	Low	High
A/G Ratio	-2.31		1.72	1.10	2.40
Albumin	-10.00		4.30	3.50	5.50
Alkaline Phosphatase	-24.40		57.00	25.00	150.00
Anion Gap	**86.67**	**H**	**24.40**	8.00	20.00
B.U.N.	7.14		17.00	5.00	26.00
B.U.N./Creatinine Ratio	-7.02		14.17	6.00	25.00
Basophil Count	-20.00		60.00	0.00	200.00
Basophils	-16.67		1.00	0.00	3.00
Bilirubin, Total	-22.73		0.40	0.10	1.20
Calcium	-6.52		9.50	8.50	10.80
Calcium/Phosphorus Ratio	-8.57		2.71	2.30	3.30
Chloride	-19.23		100.00	96.00	109.00
Cholesterol	**31.00**	**H**	**221.00**	140.00	240.00
CO2	**-25.00**	**L**	**23.00**	20.00	32.00
Creatinine	16.67		1.20	0.60	1.50
Eosinophil Count	24.00		420.00	50.00	550.00
Eosinophils	**66.67**	**H**	**7.00**	0.00	6.00
Free T4 Index (T7)	-15.00		6.80	4.00	12.00
GGT	-20.77		19.00	0.00	65.00
Globulin	-12.50		2.50	1.90	3.50
Glucose	13.64		93.00	65.00	109.00
HDL-Cholesterol	-22.09		43.00	31.00	74.00
Hematocrit	-6.67		44.80	37.00	55.00
Hemoglobin	-10.00		15.00	13.00	18.00
Iron, Total	-16.09		79.00	40.00	155.00
LDH	3.33		128.00	0.00	240.00
LDL	**33.82**	**H**	**119.00**	62.00	130.00
Lymphocyte Count	-20.50		1980.00	800.00	4800.00
Lymphocytes	0.00		33.00	18.00	48.00
MCH	**30.79**	**H**	**31.85**	27.00	33.00
MCHC	-12.95		33.48	32.00	36.00
MCV	**25.58**	**H**	**95.12**	80.00	100.00
Monocyte Count	-18.89		480.00	200.00	1100.00
Monocytes	11.54		8.00	0.00	13.00
Neutrophil Count	**-29.68**	**L**	**3060.00**	1800.00	8000.00
Neutrophils	**-38.00**	**L**	**51.00**	48.00	73.00
Phosphorus	0.00		3.50	2.50	4.50
Potassium	0.00		4.40	3.50	5.30
Protein, Total	-18.00		6.80	6.00	8.50
Protein/Globulin Ratio	12.00		2.72	2.10	3.10
R.B.C.	-21.67		4.71	4.20	6.00
sGOT	-10.00		16.00	0.00	40.00
sGPT	-12.50		15.00	0.00	40.00
Sodium	16.67		143.00	135.00	147.00
T-3 Uptake	**26.00**	**H**	**35.40**	24.00	39.00
Thyroxine (T4)	-17.50		6.60	4.00	12.00
Triglycerides	**98.74**	**H**	**296.00**	0.00	199.00
Ultra-Sensitive TSH	19.81		3.94	0.35	5.50
Uric Acid	-12.07		4.60	2.40	8.20
W.B.C.	-19.23		6.00	4.00	10.50
Total Status Deviation	**20.09**				
Total Status Skew	**0.62**				

FRANK **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

Nutritional Support

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

- ☐ **1-Carbohydrate Metabolism Profile**
  See Nutrition Detail
- ☐ **1-Elevated Lipid Level Protocol**
  See Nutrition-Detail
- ☐ **2-Vitamin B12**
  2x daily 500 mcg (Add to other protocols)
- ☐ **H - Green Tea**
  1 - 3 times daily (Can be used as a drink)
- ☐ **1-Cardiovascular Health Protocol**
  See Nutrition Detail
- ☐ **1-Oral Electrolyte - Sports Formula**
  2x daily
- ☐ **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	Beef	Black Pepper
Blackberries	Blackeyed Peas	Blueberries	Bok Choy Cabbage
Boysenberries	Broccoli	Brussel Sprouts	Butter Beans
Cantaloupe	Carrot	Cauliflower	Cherries
Clams	Cornish Game Hens	Duck	Escarole
Fava Beans	Flounder	Goose	Grapefruit
Green Beans	Gruyere Cheese	Guava	Haddock
Halibut	Kale	Kidney Beans	Loganberries
Macadamia Nuts	Mango	Mozarella Cheese	Mushrooms
Mussels	Mustard Greens	Navy Beans	Onions
Orange	Oysters	Papaya	Peanuts
Pecans	Plaintains	Potatoes	Pumpkin
Rabbit	Red Peppers	Salmon	Snapper
Sole	Soy	Spinach	Strawberries
Sturgeon	Swiss Chard	Veal	Walnuts
Wild Rice	Yams		

Foods to AVOID

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

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

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
Gastrointest. Function	35.85%	26.02%
Lipid	30.94%	23.58%
Inflammatory Process	28.76%	11.75%
Adrenal Function	27.67%	27.67%
Anti Oxidant Status	27.05%	10.47%
Differential	26.57%	4.71%
Cellular Distortions	26.06%	-3.56%

Lab Reported out-of-range Values

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

Triglycerides (98.74%)

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, Methyldopa, 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

Anion Gap (86.67%)

The anion gap is used to measure the concentration of cations (sodium and potassium) and the anions (chloride and CO2) in the extracellular fluid of the blood. Numerous clinical implications can be gathered from the Anion Gap. An increased measurement is associated with metabolic acidosis due to the overproduction of acids or severe dehydration.

Eosinophils (66.67%)

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

Additional Tests

The following additional lab tests may help in diagnosis.

Consider ordering prostate specific antigen (PSA)

Rationale: Sex is Male
Age is >= 40

FRANK **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

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-Carbohydrate Metabolism Profile See Nutrition Detail

Rationale

Decreased	Normal	Increased
		Triglycerides

CARBOHYDRATE METABOLISM PROFILE
When Triglycerides are elevated to this degree it indicates a potential for impaired carbohydrate metabolism. This pattern indicates suboptimal operation of carbohydrate metabolism, interfering with efficient cellualr 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 (2x 50 mg 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 artherosclerotic heart disease. Mutat Res, 275:169-180 (1992).

1-Cardiovascular Health Protocol See Nutrition Detail

Decreased	Normal	Increased
	HDL-Cholesterol	LDL
	Uric Acid	Cholesterol

CARDIOVASCULAR RISK PROTOCOL
CARBOHYDRATE METABOLISM PROFILE
When Triglycerides are elevated it suggests a potential for impaired carbohydrate metabolism and a greater risk of developing cardiovascular disease. This pattern indicates suboptimal operation of carbohydrate metabolism, interfering with efficient cellualr 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 (2x 50 mg 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 artherosclerotic heart disease. Mutat Res, 275:169-180 (1992).

1-Elevated Lipid Level Protocol See Nutrition-Detail

Decreased	Normal	Increased
	HDL-Cholesterol	LDL Cholesterol

HIGH LIPID LEVEL PROTOCOL
With abnormal lipid markers, the following protocol is recommended: Broad Spectrum Fatty Acid Supplement (1-2 times daily), Oral Electrolyte-Standard Formula (1-3 times daily), balanced and a B-complex vitamin (2 times daily)..
BROAD SPECTRUM FATTY ACID
Broad spectrum fatty acids, high in Omega-3, -6 and -9 have been shown to improve lipid balance.
ORAL ELECTROLYTE
Necessary to regulate fatty acid metabolism.
B-COMPLEX VITAMINS
B complex vitamins are involved in a broad spectrum of cell metabolic deficiencies as well as fatty acid utilization.

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Male / Age: 58

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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.

Rationale

Decreased	Normal	Increased
CO2		

2-Vitamin B12 2x daily 500 mcg Add to other protocols

VITAMIN B12

The only vitamin containing essential mineral elements, B12 is important in metabolism of nerve tissue, protein, fat and carbohydrate metabolism and the actions of a number of amino acids. It also is involved in the production of DNA and RNA.

Decreased	Normal	Increased
	R.B.C.	MCV MCH

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
		Cholesterol LDL

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
		Cholesterol Anion Gap

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

FRANK **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

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.

Acetazolamide(2)	Acyclovir	Allopurinol(2)	Amantadine
Amitriptyline	Amoxicillin	Ampicillin	Aspirin(2)
Carbamazepine(4)	Chlorpromazine(3)	Clindamycin(2)	Clofibrate
Cortisone	Desipramine(2)	Diazepam	Epinephrine
Erythromycin	Fluorides	Fluphenazine(2)	Furosemide
Gentamicin	Griseofulvin	Haloperidol	Hydroxyurea(2)
Ibuprofen(2)	Imipramine(3)	Indomethacin(2)	Itraconazole
Kanamycin	Levodopa	Levothyroxine(2)	Lincomycin
Lithium	Methimazole(2)	Methotrexate	Methyldopa(3)
Miconazole(2)	Naproxen	Neomycin	Nitrofurantoin(2)
Paramethadione(2)	Penicillamine(3)	Penicillin(2)	Phenobarbital(2)
Phenylbutazone(3)	Phenytoin(4)	Polythiazide(2)	Prednisone(2)
Procainamide	Propranolol(3)	Protriptyline	Rifampin(2)
Streptomycin(2)	Sulfamethoxazole	Sulfasalazine(2)	Sulfisoxazole
Tamoxifen(2)	Tetracycline(3)	Triameterene(3)	Trimethadione(3)
Vancomycin	Viomycin(2)		

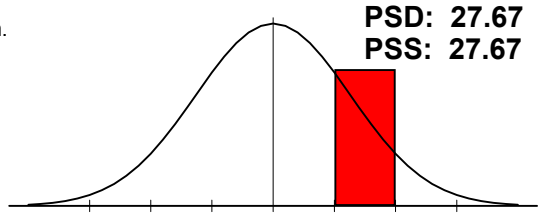
FRANK **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

Adrenal Function

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

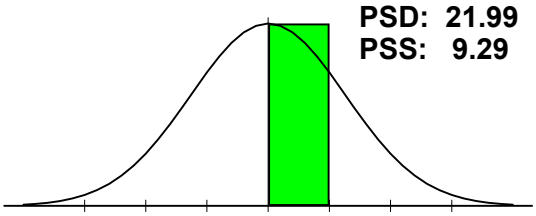
This profile may be in part due to poor nutritional habits, allergies and inadequate fluid intake. Clinical signs may include inability to handle stress, poor circulation, and fatigue.



Allergy

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

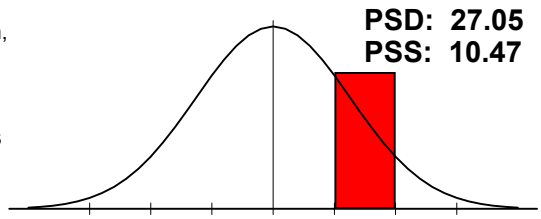
This panel is used to assess the individual's response to potential allergens. Abnormalities in this panel may indicate the need for additional allergy testing. The deviation was below 25% so no abnormalities were found.



Anti Oxidant Status

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

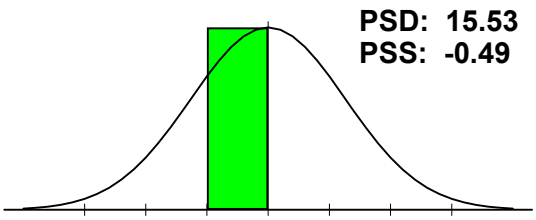
This panel profile may indicate that the patient needs to increase their intake of antioxidants and make appropriate lifestyle changes (smoking, alcohol, reduce stress, etc.). A varied, broad spectrum of antioxidants is preferable to one or two alone.



Athletic Potential

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

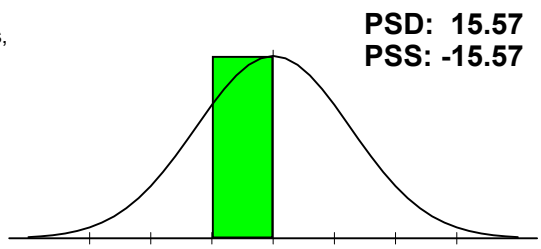
This panel is used to help assess athletic potential. Keeping this panel in a normal range may be helpful in improving athletic performance and reducing the risk of injury. The deviation was below 25% so no abnormalities were found.



Bone/Joint

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

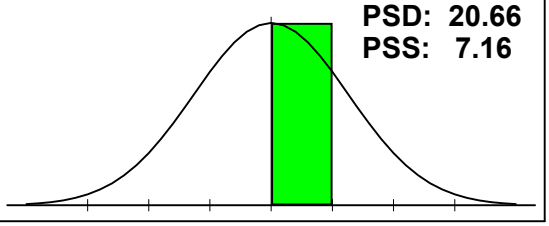
This panel may be helpful in assessing bone and joint health. Keeping the elements of this panel in a normal range may be helpful in reducing the risk of osteoporosis and other bone and joint disorders. The deviation was below 25% so no abnormalities were found.



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.



FRANK **Blood Test (CWP) Date: 10/17/2002**

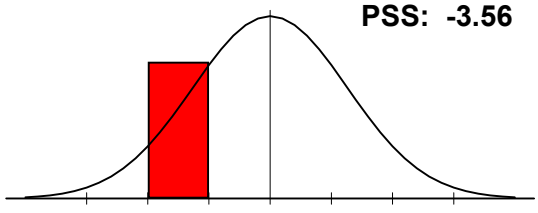
Male / Age: 58

Cellular Distortions

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

The profile shown here may be indicative of poor nutritional habits so an assessment of the patient's nutrient intake and overall nutrient density may be necessary. If the Anion Gap is low, consider increased intake of electrolytes, minerals and amino acids.

PSD: 26.06
PSS: -3.56

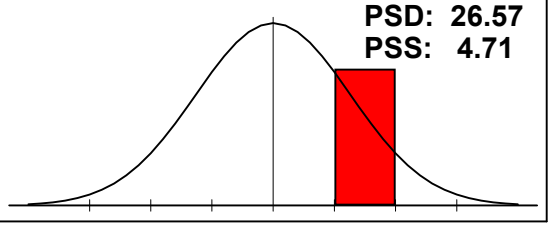


Differential

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

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

PSD: 26.57
PSS: 4.71

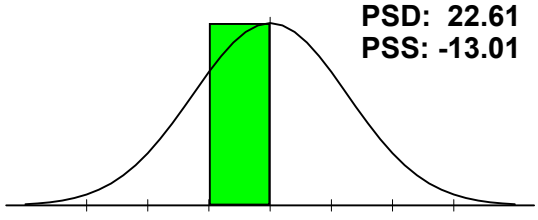


Differential Count

Basophil Count, Eosinophil Count, Lymphocyte Count, 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.

PSD: 22.61
PSS: -13.01

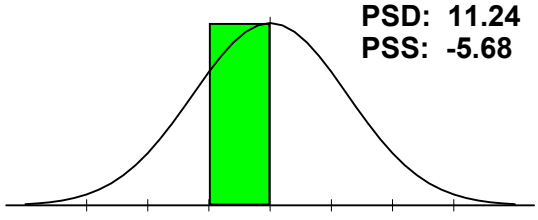


Electrolyte

Calcium, 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.

PSD: 11.24
PSS: -5.68

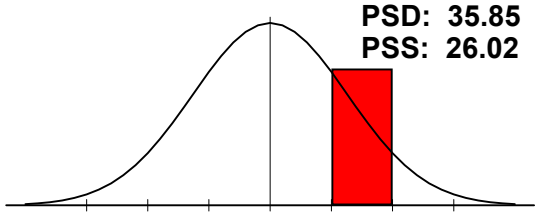


Gastrointest. Function

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.

PSD: 35.85
PSS: 26.02

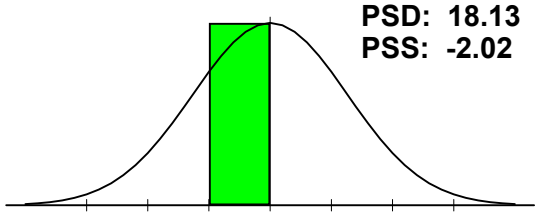


Hematology

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

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

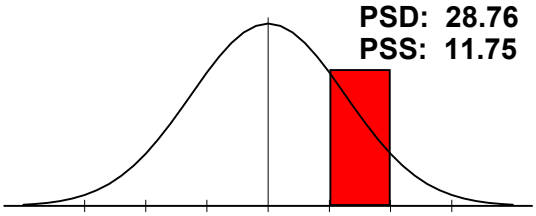
PSD: 18.13
PSS: -2.02



Inflammatory Process

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

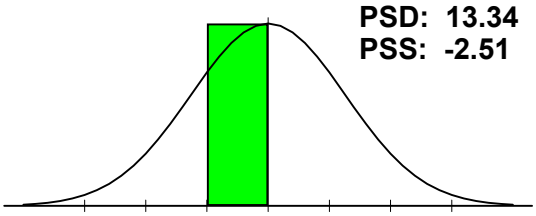
This panel profile may indicate the presence of an ongoing inflammatory process. Consider increasing B-complex vitamins and having the patient avoid saturated and trans fats as well.



Kidney Function

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

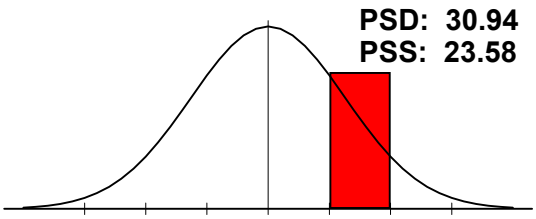
This panel may be helpful in assessing kidney function. It is important to keep the elements of this subset in balance to help the body eliminate waste material. The deviation was below 25% so no abnormalities were found.



Lipid

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

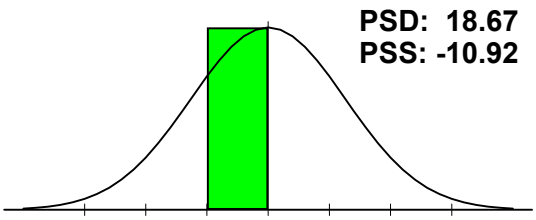
The panel profile seen here suggests that the patient may be at a greater risk for coronary heart disease than the general population. A dietary evaluation should be undertaken as well to educate the patient about saturated and trans fats.



Liver Function

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

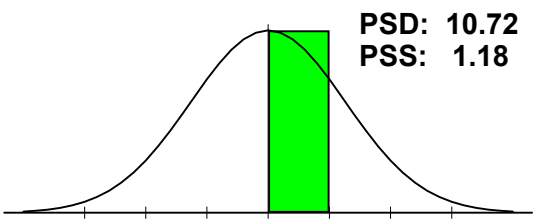
Assessing liver function is important in determining the individual's ability to detoxify itself as well as processing amino acids and other important biological processes. The deviation was below 25% so no abnormalities were found.



Nitrogen

B.U.N., B.U.N./Creatinine Ratio, Creatinine, Uric Acid.

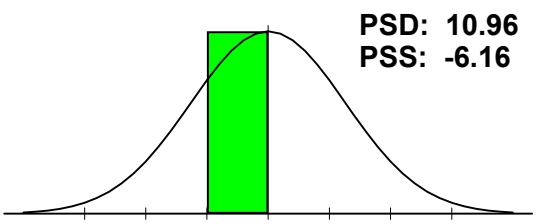
Nitrogen is an important element in achieving optimal wellness. The elements in this panel are important in determining nitrogen competency. The deviation was below 25% so no abnormalities were found.



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.



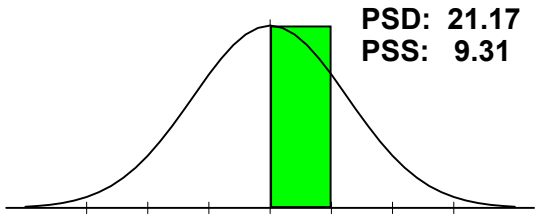
FRANK **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

Pulmonary Function

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

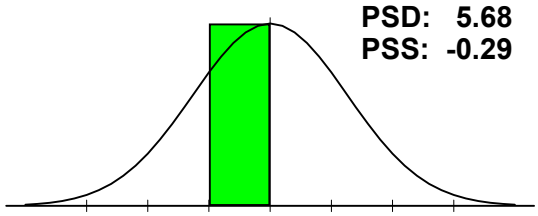
This panel may be helpful in assessing lung and respiratory function. The deviation was below 25% so no abnormalities were found.



Ratios

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

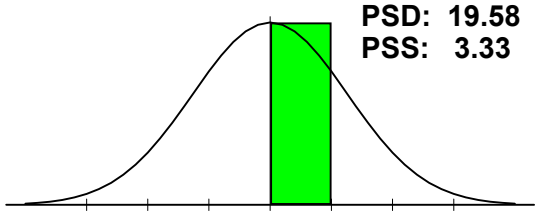
This panel may be helpful in determining the general balance of the overall chemistry of the individual. The deviation was below 25% so no abnormalities were found.



Thyroid

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

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



FRANK **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

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*	*Increased*
	-22.09 HDL-Cholesterol	**31.00 Cholesterol**
		13.64 Glucose
		98.74 Triglycerides
		-12.07 Uric Acid
		33.82 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

FRANK **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

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

Status % on:	3/7/2000		10/17/2002		+/- change
Anion Gap	3.33		**86.67**	**H**	**- 83.33**
Triglycerides	**56.03**	**H**	**98.74**	**H**	**- 42.71**
CO2	0.00		**-25.00**	**L**	**- 25.00**
sGPT	**52.00**	**H**	-12.50		+ 39.50
LDL	**69.12**	**H**	**33.82**	**H**	**+ 35.29**
Uric Acid	**-40.20**	**L**	-12.07		+ 28.13
Protein/Globulin Ratio	**40.00**	**H**	12.00		+ 28.00
Calcium	**-32.61**	**L**	-6.52		+ 26.09
Phosphorus	**-25.00**	**L**	0.00		+ 25.00

Comparison Report

FRANK — **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

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:	3/7/2000		10/17/2002	
-2.31 ← 19.23	+	A/G Ratio	19.23		-2.31	
		Albumin	5.00		-10.00	
		Alkaline Phosphatase	-23.86		-24.40	
3.33 → **86.67**	-	Anion Gap	3.33		**86.67**	**H**
		B.U.N.	11.90		7.14	
		B.U.N./Creatinine Ratio	-8.70		-7.02	
		Basophil Count	-22.00		-20.00	
		Basophils	-16.67		-16.67	
-22.73 ← -4.55	-	Bilirubin, Total	-4.55		-22.73	
-32.61 → -6.52	+	Calcium	**-32.61**	**L**	-6.52	
-8.57 ← 16.67	+	Calcium/Phosphorus Ratio	16.67		-8.57	
-19.23 ← **26.92**	+	Chloride	**26.92**	**H**	-19.23	
31.00 ← **39.00**	+	Cholesterol	**39.00**	**H**	**31.00**	**H**
-25.00 ← 0.00	-	CO2	0.00		**-25.00**	**L**
16.67 ← **27.78**	+	Creatinine	**27.78**	**H**	16.67	
7.20 → 24.00	-	Eosinophil Count	7.20		24.00	
50.00 → **66.67**	-	Eosinophils	**50.00**	**H**	**66.67**	**H**
-22.50 → -15.00	+	Free T4 Index (T7)	-22.50		-15.00	
-20.77 ← -6.47	-	GGT	-6.47		-20.77	
-25.00 → -12.50	+	Globulin	**-25.00**	**L**	-12.50	
-2.73 → 13.64	-	Glucose	-2.73		13.64	
-40.53 → -22.09	+	HDL-Cholesterol	**-40.53**	**L**	-22.09	
		Hematocrit	0.00		-6.67	
-10.00 ← -2.00	-	Hemoglobin	-2.00		-10.00	
-34.76 → -16.09	+	Iron, Total	**-34.76**	**L**	-16.09	
		LDH	5.00		3.33	
33.82 ← **69.12**	+	LDL	**69.12**	**H**	**33.82**	**H**
		Lymphocyte Count	-23.80		-20.50	
		Lymphocytes	0.00		0.00	
		MCH	**34.72**	**H**	**30.79**	**H**
		MCHC	-13.04		-12.95	
		MCV	**29.17**	**H**	**25.58**	**H**
		Monocyte Count	-16.22		-18.89	
11.54 ← 19.23	+	Monocytes	19.23		11.54	
		Neutrophil Count	**-32.97**	**L**	**-29.68**	**L**
		Neutrophils	**-38.00**	**L**	**-38.00**	**L**
-25.00 → 0.00	+	Phosphorus	**-25.00**	**L**	0.00	
		Potassium	0.00		0.00	
		Protein, Total	-14.00		-18.00	
12.00 ← **40.00**	+	Protein/Globulin Ratio	**40.00**	**H**	12.00	
		R.B.C.	-16.67		-21.67	
-10.00 ← 23.33	+	sGOT	23.33		-10.00	
-12.50 ← **52.00**	+	sGPT	**52.00**	**H**	-12.50	
8.33 → 16.67	-	Sodium	8.33		16.67	
		Sodium/Potassium Ratio	2.27		4.17	
		T-3 Uptake	-19.33		**26.00**	**H**
-17.50 ← -6.25	-	Thyroxine (T4)	-6.25		-17.50	
56.03 → **98.74**	-	Triglycerides	**56.03**	**H**	**98.74**	**H**
19.81 ← **37.96**	+	Ultra-Sensitive TSH	**37.96**	**H**	19.81	
-40.20 → -12.07	+	Uric Acid	**-40.20**	**L**	-12.07	
		W.B.C.	**-25.38**	**L**	-19.23	
		Total Status Deviation	**21.52**		**20.09**	
		Total Status Skew	**1.39**		**0.62**	

Panel/Subset Comparison Report

FRANK — **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

Adrenal Function	3/7/2000		10/17/2002		+/-
Cholesterol	**39.00**	H	**31.00**	H	+
Eosinophils	**50.00**	H	**66.67**	H	-
Eosinophil Count	7.20		24.00		-
Potassium	0.00		0.00		
Sodium	8.33		16.67		-
PSS / PSD	20.91 / 20.91		27.67 / 27.67		

Allergy	3/7/2000		10/17/2002		+/-
Eosinophils	**50.00**	H	**66.67**	H	-
Globulin	**-25.00**	L	-12.50		+
Lymphocytes	0.00		0.00		
Monocytes	19.23		11.54		+
W.B.C.	**-25.38**	L	-19.23		
PSS / PSD	3.77 / 23.92		9.29 / 21.99		

Anti Oxidant Status	3/7/2000		10/17/2002		+/-
Anion Gap	3.33		**86.67**	H	-
Bilirubin, Total	-4.55		-22.73		-
Chloride	**26.92**	H	-19.23		+
Cholesterol	**39.00**	H	**31.00**	H	+
Glucose	-2.73		13.64		-
Iron, Total	**-34.76**	L	-16.09		+
PSS / PSD	3.89 / 15.90		10.47 / 27.05		

Athletic Potential	3/7/2000		10/17/2002		+/-
B.U.N./Creatinine Ratio	-8.70		-7.02		
Cholesterol	**39.00**	H	**31.00**	H	+
CO2	0.00		**-25.00**	L	-
Creatinine	**27.78**	H	16.67		+
LDH	5.00		3.33		
Potassium	0.00		0.00		
Protein, Total	-14.00		-18.00		
Sodium	8.33		16.67		-
HDL-Cholesterol	**-40.53**	L	-22.09		+
PSS / PSD	1.88 / 15.93		-0.49 / 15.53		

Bone/Joint	3/7/2000		10/17/2002		+/-
Albumin	5.00		-10.00		
Alkaline Phosphatase	-23.86		-24.40		
Calcium	**-32.61**	L	-6.52		+
Neutrophils	**-38.00**	L	**-38.00**	L	
Phosphorus	**-25.00**	L	0.00		+
Protein, Total	-14.00		-18.00		
Uric Acid	**-40.20**	L	-12.07		+
PSS / PSD	-24.10 / 25.52		-15.57 / 15.57		

Panel/Subset Comparison Report

FRANK — **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

Cardiac Marker	3/7/2000		10/17/2002		+/-
Cholesterol	**39.00**	**H**	**31.00**	**H**	+
GGT	-6.47		-20.77		-
Iron, Total	**-34.76**	**L**	-16.09		+
LDH	5.00		3.33		
sGOT	23.33		-10.00		+
Triglycerides	**56.03**	**H**	**98.74**	**H**	-
Uric Acid	**-40.20**	**L**	-12.07		+
HDL-Cholesterol	**-40.53**	**L**	-22.09		+
LDL	**69.12**	**H**	**33.82**	**H**	+
PSS / PSD	5.88 / 26.20		7.16 / 20.66		

Cellular Distortions	3/7/2000		10/17/2002		+/-
Alkaline Phosphatase	-23.86		-24.40		
Anion Gap	3.33		**86.67**	**H**	-
GGT	-6.47		-20.77		-
Iron, Total	**-34.76**	**L**	-16.09		+
LDH	5.00		3.33		
Neutrophils	**-38.00**	**L**	**-38.00**	**L**	
W.B.C.	**-25.38**	**L**	-19.23		
PSS / PSD	-15.02 / 17.10		-3.56 / 26.06		

Differential	3/7/2000		10/17/2002		+/-
Basophils	-16.67		-16.67		
Eosinophils	**50.00**	**H**	**66.67**	**H**	-
Lymphocytes	0.00		0.00		
Monocytes	19.23		11.54		+
Neutrophils	**-38.00**	**L**	**-38.00**	**L**	
PSS / PSD	2.91 / 24.78		4.71 / 26.57		

Differential Count	3/7/2000		10/17/2002		+/-
Basophil Count	-22.00		-20.00		
Eosinophil Count	7.20		24.00		-
Lymphocyte Count	-23.80		-20.50		
Monocyte Count	-16.22		-18.89		
Neutrophil Count	**-32.97**	**L**	**-29.68**	**L**	
PSS / PSD	-17.56 / 20.44		-13.01 / 22.61		

Electrolyte	3/7/2000		10/17/2002		+/-
Calcium	**-32.61**	**L**	-6.52		+
Chloride	**26.92**	**H**	-19.23		+
CO2	0.00		**-25.00**	**L**	-
Phosphorus	**-25.00**	**L**	0.00		+
Potassium	0.00		0.00		
Sodium	8.33		16.67		-
PSS / PSD	-3.73 / 15.48		-5.68 / 11.24		

Panel/Subset Comparison Report

FRANK — **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

Gastrointest. Function	3/7/2000		10/17/2002		+/-
Anion Gap	3.33		**86.67**	H	-
Chloride	**26.92**	H	-19.23		+
Cholesterol	**39.00**	H	**31.00**	H	+
CO2	0.00		**-25.00**	L	-
Monocytes	19.23		11.54		+
Potassium	0.00		0.00		
Sodium	8.33		16.67		-
Triglycerides	**56.03**	H	**98.74**	H	-
LDL	**69.12**	H	**33.82**	H	+
PSS / PSD	24.66 / 24.66		26.02 / 35.85		

Hematology	3/7/2000		10/17/2002		+/-
Hematocrit	0.00		-6.67		
Hemoglobin	-2.00		-10.00		-
MCH	**34.72**	H	**30.79**	H	
MCHC	-13.04		-12.95		
MCV	**29.17**	H	**25.58**	H	
R.B.C.	-16.67		-21.67		
W.B.C.	**-25.38**	L	-19.23		
PSS / PSD	0.97 / 17.28		-2.02 / 18.13		

Inflammatory Process	3/7/2000		10/17/2002		+/-
Eosinophils	**50.00**	H	**66.67**	H	-
Globulin	**-25.00**	L	-12.50		+
LDH	5.00		3.33		
Neutrophils	**-38.00**	L	**-38.00**	L	
Potassium	0.00		0.00		
sGOT	23.33		-10.00		+
sGPT	**52.00**	H	-12.50		+
Triglycerides	**56.03**	H	**98.74**	H	-
Uric Acid	**-40.20**	L	-12.07		+
LDL	**69.12**	H	**33.82**	H	+
PSS / PSD	15.23 / 35.87		11.75 / 28.76		

Kidney Function	3/7/2000		10/17/2002		+/-
Albumin	5.00		-10.00		
B.U.N.	11.90		7.14		
B.U.N./Creatinine Ratio	-8.70		-7.02		
Chloride	**26.92**	H	-19.23		+
CO2	0.00		**-25.00**	L	-
Creatinine	**27.78**	H	16.67		+
Glucose	-2.73		13.64		-
Potassium	0.00		0.00		
Protein, Total	-14.00		-18.00		
Sodium	8.33		16.67		-
PSS / PSD	5.45 / 10.54		-2.51 / 13.34		

Panel/Subset Comparison Report

FRANK — **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

Lipid	3/7/2000		10/17/2002		+/-
Cholesterol	**39.00**	H	**31.00**	H	+
Triglycerides	**56.03**	H	**98.74**	H	-
HDL-Cholesterol	**-40.53**	L	-22.09		+
LDL	**69.12**	H	**33.82**	H	+
PSS / PSD	20.60 / 34.11		23.58 / 30.94		

Liver Function	3/7/2000		10/17/2002		+/-
Albumin	5.00		-10.00		
Alkaline Phosphatase	-23.86		-24.40		
Bilirubin, Total	-4.55		-22.73		-
Cholesterol	**39.00**	H	**31.00**	H	+
GGT	-6.47		-20.77		-
Protein, Total	-14.00		-18.00		
sGOT	23.33		-10.00		+
sGPT	**52.00**	H	-12.50		+
PSS / PSD	8.81 / 21.03		-10.92 / 18.67		

Nitrogen	3/7/2000		10/17/2002		+/-
B.U.N.	11.90		7.14		
B.U.N./Creatinine Ratio	-8.70		-7.02		
Creatinine	**27.78**	H	16.67		+
Uric Acid	**-40.20**	L	-12.07		+
PSS / PSD	-2.30 / 22.15		1.18 / 10.72		

Protein	3/7/2000		10/17/2002		+/-
A/G Ratio	19.23		-2.31		+
Albumin	5.00		-10.00		
Globulin	**-25.00**	L	-12.50		+
Protein, Total	-14.00		-18.00		
Protein/Globulin Ratio	**40.00**	H	12.00		+
PSS / PSD	5.05 / 20.65		-6.16 / 10.96		

Pulmonary Function	3/7/2000		10/17/2002		+/-
Anion Gap	3.33		**86.67**	H	-
Calcium	**-32.61**	L	-6.52		+
CO2	0.00		**-25.00**	L	-
LDH	5.00		3.33		
Potassium	0.00		0.00		
sGOT	23.33		-10.00		+
Sodium	8.33		16.67		-
PSS / PSD	1.06 / 10.37		9.31 / 21.17		

Ratios	3/7/2000		10/17/2002		+/-
A/G Ratio	19.23		-2.31		+
B.U.N./Creatinine Ratio	-8.70		-7.02		
Calcium/Phosphorus Ratio	16.67		-8.57		+
Sodium/Potassium Ratio	2.27		4.17		
Protein/Globulin Ratio	**40.00**	H	12.00		+
PSS / PSD	11.58 / 14.48		-0.29 / 5.68		

Panel/Subset Comparison Report

FRANK **Blood Test (CWP) Date: 10/17/2002**

Male / Age: 58

Thyroid	3/7/2000		10/17/2002		+/-	
Thyroxine (T4)	-6.25		-17.50		-	-17.50 ← -6.25
T-3 Uptake	-19.33		**26.00**	**H**		
Free T4 Index (T7)	-22.50		-15.00		+	-22.50 → -15.00
Ultra-Sensitive TSH	**37.96**	**H**	19.81		+	19.81 ← **37.96**
PSS / PSD	-2.53 / 21.51		3.33 / 19.58			