



The Holman Omega 3 Test Report
www.Omega3Test.com

Date: 8/4/11
 ID: 1227411
 Patient: Ted E. Slanker
 Sample Date: 8/1/11

Select Key Omega 3 and Omega 6 Fatty Acids

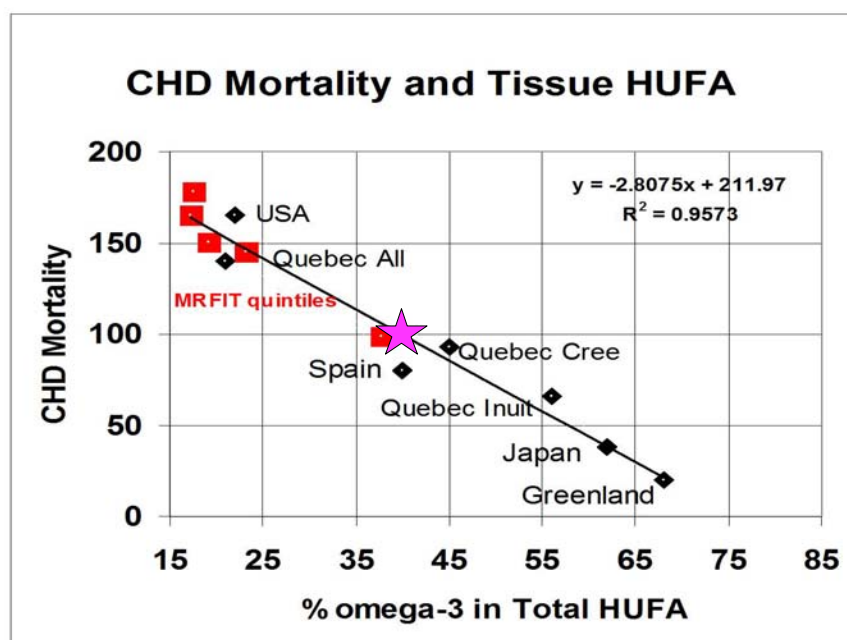
	<u>Result (%)</u>	<u>Typical USA (Control) (%)</u>	<u>Percent of Control (%)</u>	<u>Optimal</u>
Total Omega 3 Score	11.8	4.8	246	> 9%
ALA (18:3ω3)	1.8	0.5	353	>1%
EPA (20:5ω3)	2.7	0.6	454	>3%
DPA (22:5ω3)	2.2	1.0	216	>1%
DHA (22:6ω3)	4.0	2.6	154	>4%
% Omega 3 in HUFA (The Lands' Test)	39	24	166	> 50%
Omega 3 Index (RBC EPA + DHA)	7.1	3.4	208	> 8%
Total Omega 6 Score	32.3	39.0	83	<38%
LA (18:2ω6)	17.9	25.1	71	<21%
DGLA (20:3ω6)	0.9	1.3	72	<1.3%
AA (20:4ω6)	11.9	10.8	110	<9%
% Omega 6 in HUFA	61	76	80	< 50%
Omega 6/Omega 3 Ratio	2.7	8.11 to 1	34	< 5:1
AA/EPA Ratio	4.4	18.3 to 1	24	<5:1

Ted perfect score! You have GREAT numbers. Maintain your present dietary strategy.

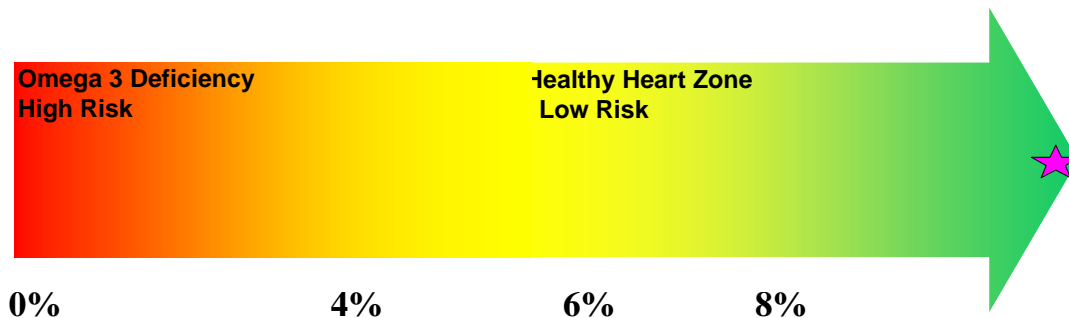
Try to get at least 1000-2000mg of EPA and DHA and 4000mg of ALA per day with fish, fish oil and flax. Avoid omega 6 rich oils (soybean, corn, safflower) and foods made with them.

Omega 3 in HUFA = **39 %** US Average = 24%

OPTIMAL > 50% Your value indicated by the purple star on the graphic below.



Total Omega 3 = **11.8 %** US Average 4.8%
Desired >9%: correlates with a 90% risk reduction for sudden cardiac death (Albert et al)

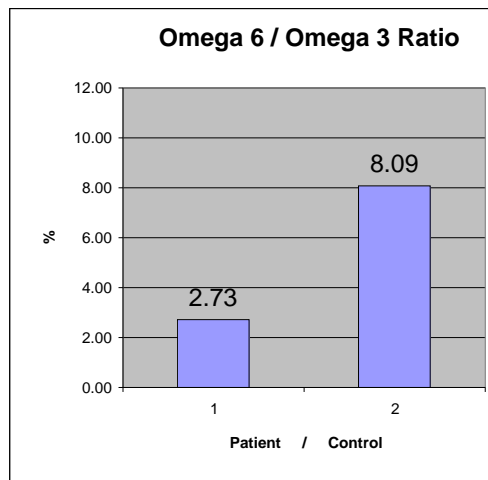
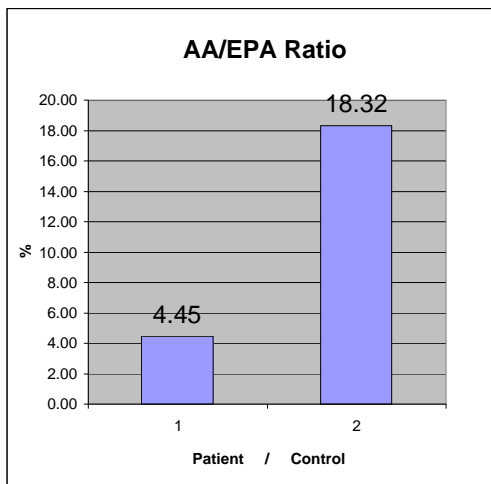
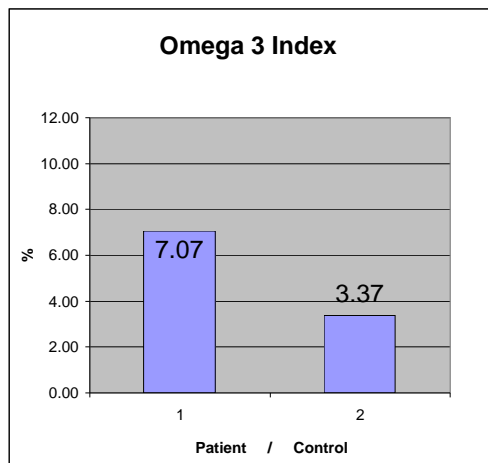
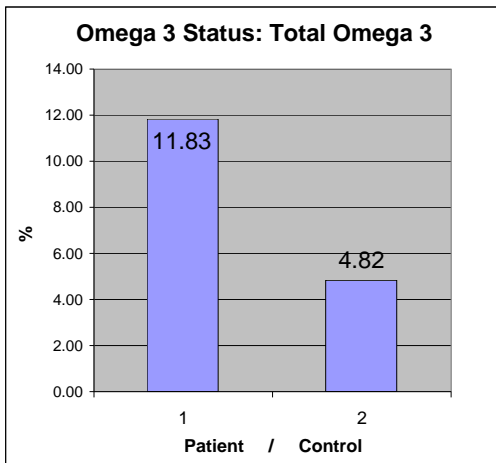
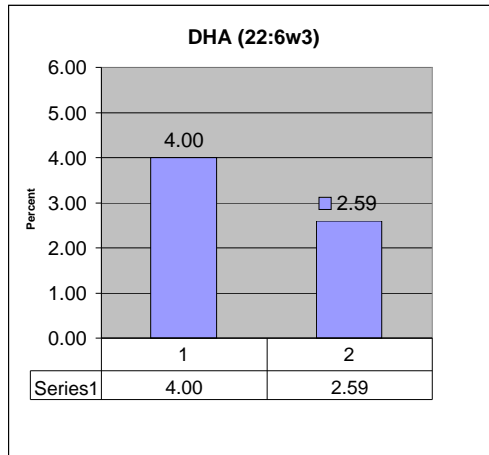
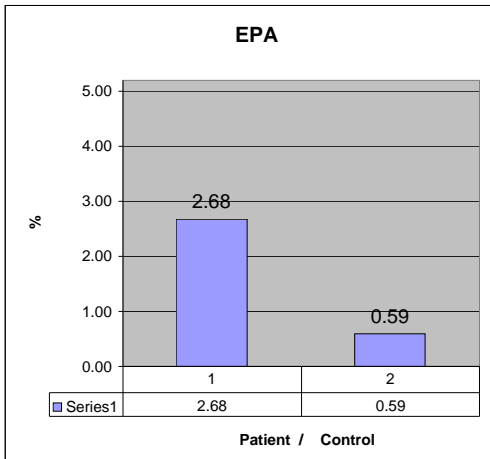




Percent Composition of Blood
8/4/11

Sample	Ted E. Slanker	Supplements	
SampleDate	Blood Spot	Fish Meals/mos	
Patient ID	8/1/11	Avoid Omega 6?	
Physician	1227411		
	na	Lab ID	1227411

Patient	Ted E. Slanker	Typical USA	Common Names
12:0	0.00	0.00	Lauric acid
14:0	0.00	0.64	Myristic
14:1	0.00	0.05	Myristoleic
15:0	0.00	0.21	Pentadecanoic
15:1	0.00	0.09	
16:0	21.47	21.05	Palmitic
16:1ω9	0.00	0.08	
16:1ω7	1.90	1.11	Palmitoleic
17:0	0.00	0.21	Heptadecanoic
17:1	0.00	0.10	
18:0	12.09	11.92	Stearic
18:1ω9	18.99	17.79	Oleic
18:1ω7	0.00	0.00	Vaccenic
18:1ω5	0.00	0.00	
18:2ω6	17.85	25.10	Linoleic (LA)
18:3ω6	0.32	0.24	gamma-linolenic (GLA)
18:3ω3	1.77	0.52	alpha-linolenic (ALA)
18:4ω3	1.03	0.05	Steridonic acid (SDA)
20:0	0.23	0.18	Arachidic
20:1ω9	0.21	0.04	
20:1ω7	0.10	0.22	11-Eicoenoic
20:2ω6	0.25	0.34	Eicosadienoic
20:3ω9	0.10	0.06	Mead's acid
20:3ω6	0.94	1.31	Dihomogamma-linolenic acid (DGLA)
20:4ω6 (AA)	11.93	10.81	Arachidonic (AA)
20:3ω3	0.00	0.07	Eicosatrienoic acid-omega 3
20:4ω3	0.19	0.04	Eicosatetraenoic acid-omega 3
20:5ω3 (EPA)	2.68	0.59	Eicosapentaenoic (EPA)
22:0	0.70	0.21	Behenic
22:1ω9	0.03	0.03	Erucic
22:4ω6	1.01	0.76	Docosatetraenoic
22:5ω6	0.00	0.41	Docosapentaenoic -omega 6
22:5ω3 (DPA-ω3)	2.16	0.96	Docosapentaenoic -omega 3
24:0	0.00	0.21	Lignoceric
22:6ω3 (DHA)	4.00	2.59	Docosahexaenoic (DHA)
24:1	0.04	0.12	Nervonic
other	0.00	1.89	
sum	100.00	100.00	
Saturated	34.49	34.42	Total Saturated fatty acids
Monounsatur	19.38	18.42	Total Monounsaturated fatty acids
PUFA	44.23	43.85	Total Polyunsaturated fatty acids
HUFA	23.00	17.60	Highly unsaturated fatty acids
T/T Ratio	0.01	0.006	Triene/Tetraene ratio
Total ω3	11.83	4.82	Total Omega 3
Total ω6	32.30	38.97	Total Omega 6
Total ω9	19.28	18.03	Total Omega 9
ω6/ω3	2.73	8.09	Omega 6 to Omega 3 Ratio
AA/EPA	4.45	18.32	AA (20:4ω6) to EPA (20:5ω3) ratio
% Omega 3 HUFA	39	24.15	Percent of Omega 3 in HUFA
% Omega 6 HUFA	61	75.85	Percent of Omega 6 in HUFA
WB EPA+DHA	6.68	3.18	Whole Blood EPA + DHA
RBC EPA+DHA	7.07	3.37	RBC EPA and DHA (Omega 3 Index)





The Holman Omega 3 Test™

Dr. Doug Bibus

Welcome to the Holman Omega 3 Test™, the quick and easy way to measure your omega 3 health. This report identifies your entire fatty acid profile but focuses on you omega 3 and omega 6 fatty acid levels. Your total omega 3 score is the total amount of omega 3 in your blood as a percentage. For example, if your omega 3 score is 5% then 5% of the fatty acids in your blood are made up of omega 3 fatty acids which includes several family members like EPA, DPA and DHA.

In populations like the Japanese who consume large amounts of marine based foods their total omega 3 score is often over 15%. Dr. Ralph T. Holman, the Grandfather of Omega 3, pioneer of this test and inventor of the term 'Omega 3', has a total omega 3 score of 25% that directly reflects his daily intake of fish, fish oil and avoidance of omega 6 rich oils.

This report also includes indicators of heart health. Two common tests describe our omega 3 levels as they relate to cardiovascular health. The first is the Lands' test, named after Dr. Bill Lands who invented this test and terminology. It is called the Omega 3 HUFA test. The term HUFA stands for 'highly unsaturated fatty acids'. These fatty acids generally form the basis for our inflammatory response. Armed with the knowledge that the inflammatory response produced from omega 6 fatty acids is quite powerful, and the same response from omega 3 HUFA is less potent (anti-inflammatory) it is thus desirable to have a lower Omega 6 HUFA score and a higher Omega 3 HUFA score. Dr. Land's has modeled several populations, their Omega 3 HUFA score and their death mortality rate from cardiovascular disease (displayed above in graphic form).

Typical Americans have a Omega 3 HUFA score of 20%, that correlates with a high incidence of mortality from heart disease. Increasing this score to 50% correlates with an approximate 50% reduction in mortality. Increasing the Omega 3 HUFA score to 70% nearly eliminates cardiovascular related mortality.

The final indicator of heart health as it relates to blood based omega 3 fatty acids is the Omega 3 Index. The Omega 3 Index is the combined value of two omega 3 fatty acids, EPA and DHA that are thought to exert the main physiological effects of omega 3 in the diet. The science behind the Omega 3 Index came from the work of Siscovick and Albert who examined omega 3 levels in populations and then assessed their risk of sudden death. From Albert's data, increasing omega 3 blood values from 3.58% to 6.76% was correlated with a 90% reduction in risk of sudden death (a type of heart attack). Data from Siscovick's work has illustrated similar outcomes. The Omega 3 Index was coined by an American and German scientist in 2004 as a blood based risk factor for cardiovascular disease. The recommended Omega 3 Index is 8% or greater or a combined percentage total of EPA and DHA greater than 8%.

If your Omega 3 numbers are low don't feel alone. The vast majority of Americans have low omega 3 levels. The good news is that you can easily improve your omega 3 score by increasing your dietary intake of oily omega 3 rich fish like salmon, omega 3 eggs and other omega 3 enriched foods. Another effective way of increasing your omega 3 levels is to consume a high quality omega 3 supplement. You should strive for a daily intake of at least 1000mg (~3-4 fish oil capsules) to 2000mg (~6-7 fish oil capsules) of EPA and DHA. Good luck on your quest for Omega 3 Health!

Albert, CM et al NEJM 2002;346 (15):1113-1118
Siscovick, DS et al JAMA 1995 (274): 1363-1367

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