Table 4.2.1 Statistics Comparison of Main Bioimpedance Parameters.

Main Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Impedance at 5K	634.04 (5.545)	84.087	7070.544	-.028(0.32)	626.62(6.08)	92.327	8524.246	-.565 (0.32)
Impedance at 50K	569.92 (5.493)	83.313	6940.981	.385 (0.32)	555.28(6.69)	101.579	10318.239	-.405 (0.32)
Impedance at 100K	547.28 (5.446)	82.593	6821.573	.416 (0.32)	530.82(6.66)	101.003	10201.556	-.357 (0.32)
Impedance at 200K	524.35 (5.453)	82.699	6839.076	.406 (0.32)	509.48(6.66)	101.062	10213.535	-.301 (0.32)
Reactance at 50K	570.02 (5.49)	83.253	6931.000	.323(0.32)	552.65(6.74)	102.233	10451.599	-.395 (0.32)
Resistance at 50K	51.41 (0.685)	10.394	108.029	.174(0.32)	51.60(.904)	13.716	188.142	1.535 (0.32)
Phase Angle at 50 kHz	5.25 (0.076)	1.157	1.338	.347(0.32)	5.56(.135)	2.053	4.217	2.272 (0.32)
BMR	1373.96(14.76)	223.788	50080.85	1.205(0.32)	1390.92(15)	228.281	52112.076	.774(0.32)
BCM	18.25(.261)	3.966	15.726	-.969(0.32)	18.75(.278)	4.167	17.362	-1.180(0.32)
ICW	22.22(.387)	5.874	34.506	-.320(0.32)	22.22(.387)	5.875	34.510	-.321(0.32)
Normal ICW	15.59(.146)	2.222	4.935	-.594(0.32)	15.69(.148)	2.242	5.026	-.528 (0.32)
ECW	15.10(.277)	4.199	17.629	-.783(0.32)	15.13(.278)	4.220	17.808	-.833 (0.32)
Normal ECW	32.90(.348)	5.284	27.922	-.412(0.32)	33.66(.367)	5.560	30.909	-.956 (0.32)
TBW	37.08(.634)	9.615	92.448	-.177(0.32)	37.10(.633)	9.593	92.034	-.162 (0.32)
Min TBW	44.19(.765)	11.607	134.729	-.172(0.32)	44.15(.765)	11.599	134.531	-.158 (0.32)
Max TBW	26.07(.374)	5.670	32.154	-.971(0.32)	26.78(.393)	5.959	35.504	-1.185 (0.32)

Note:BMR = Basal Metabolic Rate. ICW = Intra Cellular Water. ECW = Extra Cellular Water. TBW = Total body water volume. BCM = Body cell mass.The Value in parentheses is the Standard Error

Table 4.2.2 Statistics Comparison of Secondary Bioimpedance Parameters.

Secondary Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Percentage of fat	41.02(.790)	11.983	143.585	-.757(0.32)	39.77(.823)	12.485	155.865	-1.11(0.32)
Min Fat	11.36(.116)	1.757	3.086	-.466(0.32)	11.42(.122)	1.857	3.450	-.822(0.32)
Max Fat	15.21(.138)	2.092	4.378	-.544(0.32)	15.52(.155)	2.343	5.491	-.843(0.32)
Percentage of lean	58.97(.791)	11.990	143.761	-.760(0.32)	60.23(.823)	12.482	155.794	-1.11(0.32)
Min lean	40.51(.583)	8.836	78.068	.425(0.32)	41.24(.595)	9.031	81.556	.058(0.32)
Max lean	44.37(.597)	9.052	81.936	.585(0.32)	45.34(.612)	9.279	86.103	.168(0.32)
Dry lean weight	8.80(.302)	4.578	20.958	.580(0.32)	8.87(.308)	4.675	21.854	.506(0.32)
Percentage of water	46.72(.536)	8.128	66.058	.377(0.32)	49.88(2.139)	32.433	1051.913	199.4(0.32)
Min water	37.08(.634)	9.615	92.448	-.177(0.32)	37.10(.633)	9.593	92.034	-.162(0.32)
Max water	44.19(.764)	11.604	134.644	-.170(0.32)	44.15(.765)	11.599	134.531	-.158(0.32)
Density	1.00(.003)	.048	.002	10.31(0.32)	1.00(.003)	.049	.002	10.21(0.32)
Nutrition	.46(.001)	.020	.000	-.624(0.32)	.46(.002)	.025	.001	-.764(0.32)
Normal nutrition	.40(.001)	.010	.000	3.975(0.32)	.40(.001)	.010	.000	3.170(0.32)
Third space value	-.94(.125)	1.900	3.609	.871(0.32)	-.78(.126)	1.908	3.640	1.472(0.32)

Note: The Value in parentheses is the Standard Error.

Table 4.2.3 Statistics Comparison of Main Bioimpedance Parameters for Female.

Main Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Impedance at 5K	631.80(6.661)	90.593	8207.150	-.295(.355)	622.73(7.408)	100.765	10153.655	-.806(355)
Impedance at 50K	569.39(6.603)	89.812	8066.197	.061(.355)	550.04(8.147)	110.817	12280.422	-.679(355)
Impedance at 100K	545.89(6.560)	89.231	7962.123	.114(.355)	525.89(8.101)	110.184	12140.579	-.635(355)
Impedance at 200K	522.60(6.575)	89.435	7998.654	.117(.355)	504.37(8.104)	110.231	12150.844	-.582(355)
Reactance at 50K	568.48(6.610)	89.905	8082.838	.025(.355)	547.33(8.199)	111.515	12435.559	-.670(355)
Resistance at 50K	51.54(.825)	11.227	126.043	-.204(.355)	51.75(1.113)	15.139	229.184	.770(355)
Phase Angle at 50 kHz	5.29(.092)	1.251	1.566	.020(.355)	5.67(.166)	2.258	5.096	1.227(355)
BMR	1366.4(16.22)	220.77	48741.14	1.367(.355)	1385.51(16.4)	223.283	49855.110	.902(.355)
BCM	17.89(.278)	4.97	14.786	-.789(.78)	15.56(.456)	3.89	15.78	-1.450(.56)
ICW	18.44(.304)	4.128	17.041	-1.14(.355)	19.00(.317)	4.310	18.576	-1.253(355)
Normal ICW	22.67(.465)	6.318	39.922	-.733(.355)	22.61(.464)	6.318	39.915	-.711(355)
ECW	15.71(.172)	2.345	5.500	-.799(.355)	15.81(.174)	2.364	5.586	-.677(355)
Normal ECW	15.36(.326)	4.440	19.717	-1.02(.355)	15.33(.327)	4.447	19.776	-1.023(355)
TBW	33.02(.396)	5.385	28.995	-.551(.355)	33.88(.415)	5.648	31.896	-.993(355)
Min TBW	37.83(.763)	10.377	107.684	-.638(.355)	37.77(.761)	10.355	107.223	-.606(355)
Max TBW	45.14(.920)	12.511	156.520	-.645(.355)	45.00(.919)	12.506	156.402	-.616(355)

Note:BMR = Basal Metabolic Rate. ICW = Intra Cellular Water. ECW = Extra Cellular Water. TBW = Total body water volume. BCM = Body cell mass.
The Value in parentheses is the Standard Error.

Table 4.2.4 Statistics Comparison of Secondary Bioimpedance Parameters for Female.

Secondary Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Percentage of fat	42.23(.910)	12.380	153.273	-.862(.355)	40.76(.958)	13.029	169.756	-1.29(.355)
Min fat	11.48(.137)	1.862	3.468	-.713(.355)	11.62(.145)	1.975	3.900	-1.12(.355)
Max fat	15.38(.162)	2.204	4.856	-.824(.355)	15.76(.183)	2.489	6.196	-1.07(.355)
Percenge of lean	57.76(.911)	12.388	153.465	-.866(.355)	59.23(.958)	13.025	169.657	-1.29(.355)
Min lean	40.32(.647)	8.806	77.546	.461(.355)	41.14(.653)	8.882	78.893	.116(.355)
Max lean	44.23(.661)	8.993	80.883	.612(.355)	45.28(.672)	9.140	83.549	.202(.355)
Dry lean weight	8.47(.331)	4.496	20.210	.731(.355)	8.51(.335)	4.558	20.773	.612(.355)
Percentage of water	46.18(.643)	8.749	76.553	.152(.355)	50.06(2.655)	36.118	1304.523	161.6(.355)
Min water	37.83(.763)	10.377	107.684	-.638(.355)	37.77(.761)	10.355	107.223	-.606(.355)
Max water	45.14(.919)	12.506	156.404	-.644(.355)	45.00(.919)	12.506	156.402	-.616(.355)
Density	1.00(.004)	.052	.003	8.141(.355)	1.00(.004)	.054	.003	7.990(.355)
Nutrition	.46(.001)	.020	.000	-.739(.355)	.46(.002)	.026	.001	-.862(.355)
Normal nutrition	.35(.002)	.012	.000	4.975(.34)	.35(.002)	.012	.000	4.970(.34)
Third space value	-1.13(.151)	2.060	4.242	.042(.355)	-.93(.153)	2.086	4.350	.513(.355)

Note: The Value in parentheses is the Standard Error.

Table 4.2.5 Statistics Comparison of Main Bioimpedance Parameters for Male.

Main Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Impedance at 5K	643.24(7.258)	48.687	2370.416	1.12(.695)	1413.16(37.1)	249.210	62105.862	.323(.695)
Impedance at 50K	572.09(7.284)	48.860	2387.310	1.17(.695)	642.60(5.924)	39.740	1579.291	-.029(.695)
Impedance at 100K	553.00(6.937)	46.534	2165.409	.201(.695)	576.82(6.249)	41.921	1757.331	-.139(.695)
Impedance at 200K	531.56(6.798)	45.600	2079.389	.022(.695)	551.09(6.329)	42.453	1802.265	-.271(.695)
Reactance at 50K	576.38(7.024)	47.121	2220.377	.564(.695)	530.49(6.295)	42.227	1783.119	-.344(.695)
Resistance at 50K	50.89(.879)	5.900	34.807	2.35(.695)	574.53(6.296)	42.235	1783.800	-.159(.695)
Phase Angle at 50 kHz	5.06(.091)	.611	.374	.775(.695)	51.00(.672)	4.508	20.326	-.344(.695)
BMR	1404.78(35.1)	235.825	55613.63	.826(.695)	24.96(.666)	4.471	19.989	.659(.695)
BCM	24.96(.003)	4.471	.000	-.58(.695)	40.67(.826)	5.539	30.682	-.418(.695)
ICW	17.47(.467)	3.133	9.815	.676(.695)	5.11(.092)	.614	.377	-1.42(.695)
Normal ICW	20.39(.431)	2.893	8.369	.580(.695)	17.73(.503)	3.372	11.372	-.172(.695)
ECW	15.13(.231)	1.551	2.406	.589(.695)	20.63(.459)	3.079	9.482	-.074(.695)
Normal ECW	14.03(.417)	2.799	7.834	1.05(.695)	15.17(.234)	1.567	2.456	-.011(.695)
TBW	32.44(.727)	4.877	23.788	.740(.695)	14.30(.450)	3.019	9.111	.125(.695)
Min TBW	33.98(.643)	4.314	18.613	.465(.695)	32.75(.767)	5.142	26.442	-.057(.695)
Max TBW	40.29(.780)	5.229	27.346	.082(.695)	34.33(.682)	4.573	20.909	-.140(.695)

Note:BMR = Basal Metabolic Rate. ICW = Intra Cellular Water. ECW = Extra Cellular Water. TBW = Total body water volume. BCM = Body cell mass.
The Value in parentheses is the Standard Error.

Table 4.2.6 Statistics Comparison of Secondary Bioimpedance Parameters for Male.

Secondary Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Percentage of fat	36.04(1.29)	8.653	74.866	-.708(.695)	35.70(1.33)	8.957	80.230	-1.15(.695)
Min fat	10.87(.167)	1.120	1.255	-1.11(.695)	10.60(.133)	.889	.791	-.631(.695)
Max fat	14.53(.205)	1.375	1.891	-1.35(.695)	14.53(.179)	1.198	1.436	-1.55(.695)
Percenge of lean	63.96(1.29)	8.653	74.866	-.708(.695)	64.30(1.33)	8.957	80.230	-1.15(.695)
Min lean	41.27(1.34)	9.016	81.291	.397(.695)	41.67(1.44)	9.712	94.318	-.156(.695)
Max lean	44.93(1.39)	9.370	87.791	.626(.695)	45.60(1.48)	9.932	98.655	.090(.695)
Dry lean weight	10.18(702)	4.708	22.163	.297(.695)	10.37(.730)	4.899	24.002	-.040(.695)
Percentage of water	48.97(.619)	4.154	17.256	-.250(.695)	49.16(.646)	4.334	18.783	-.533(.695)
Min water	33.98(.643)	4.314	18.613	.465(.695)	34.33(.682)	4.573	20.909	-.140(.695)
Max water	40.29(.780)	5.229	27.346	.082(.695)	40.67(.826)	5.539	30.682	-.418(.695)
Density	1.02(.003)	.018	.000	-.907(.695)	1.02(.003)	.018	.000	-1.26(.695)
Nutrition	.47(.003)	.018	.000	.314(.695)	-.15(.074)	.495	.245	.137(.695)
Normal nutrition	.37(.013)	.020	.000	3.567(.45)	.37(.013)	.020	.000	3.534(.45)
Third space value	-.15(.05)	.505	.255	-.091(.695)	.46(.003)	.020	.000	-.588(.695)

Note: The Value in parentheses is the Standard Error.

Table 4.2.7 Statistics Comparison of Main Bioimpedance Parameters for BMI Group 1

Main Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Impedance at 5K	766.40(.163)	.516	.267	-2.2(1.3)	793.80(.533)	1.687	2.844	-1.831(1.3)
Impedance at 50K	680.20(.249)	.789	.622	-1.0(1.3)	699.20(.490)	1.549	2.400	-1.549(1.3)
Impedance at 100K	642.80(.249)	.789	.622	-1.07(1.3)	660.60(.340)	1.075	1.156	-.882(1.3)
Impedance at 200K	612.20(.249)	.789	.622	-1.07(1.3)	630.20(.249)	.789	.622	-1.074(1.3)
Reactance at 50K	676.40(.340)	1.075	1.156	-.88(1.3)	695.20(.490)	1.549	2.400	-1.549(1.3)
Resistance at 50K	72.84(.098)	.310	.096	.12(1.3)	73.78(.083)	.262	.068	.864(1.3)
Phase Angle at 50 kHz	6.16(.016)	.052	.003	-2.27(1.3)	6.06(.016)	.052	.003	-2.277(1.3)
BMR	1256.78(15.6)	256.766	67800.45	1.709(0.5)	1245(12)	245.785	65778.56	.877(.045)
BCM	17.30(000)	.000	.000	.	17.02(.013)	.042	.002	1.406(1.3)
ICW	12.10(.000)	.000	.000	.	11.92(.013)	.042	.002	1.406(1.3)
Normal ICW	11.40(.000)	.000	.000	.	11.40(.000)	.000	.000	.
ECW	11.70(.000)	.000	.000	.	11.58(.013)	.042	.002	1.406(1.3)
Normal ECW	7.60(.000)	.000	.000	.	7.60(.000)	.000	.000	.
TBW	25.46(.016)	.052	.003	-2.27(1.3)	25.10(.000)	.000	.000	.
Min TBW	19.00(.000)	.000	.000	.	19.00(.000)	.000	.000	.
Max TBW	23.00(.000)	.000	.000	.	23.00(.000)	.000	.000	.

Note:BMR = Basal Metabolic Rate. ICW = Intra Cellular Water. ECW = Extra Cellular Water. TBW = Total body water volume. BCM = Body cell mass.
The Value in parentheses is the Standard Error.

Table 4.2.8 Statistics Comparison of Secondary Bioimpedance Parameters for BMI Group 1.

Secondary Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Percentage of fat	20.30(.000)	.000	.000	.	21.30(.000)	.000	.000	.
Min fat	10.00(.000)	.000	.000	.	10.00(.000)	.000	.000	.
Max fat	13.00(.000)	.000	.000	.	13.00(.000)	.000	.000	.
Percenge of lean	79.70(.000)	.000	.000	.	78.70(.000)	.000	.000	.
Min lean	36.00(.000)	.000	.000	.	36.00(.000)	.000	.000	.
Max lean	39.00(.000)	.000	.000	.	39.00(.000)	.000	.000	.
Dry lean weight	4.84(.016)	.052	.003	-2.27(.133)	4.80(.000)	.000	.000	.
Percentage of water	66.98(.049)	.155	.024	-2.27(.133)	66.10(.000)	.000	.000	.
Min water	19.00(.000)	.000	.000	.	19.00(.000)	.000	.000	.
Max water	23.00(.000)	.000	.000	.	23.00(.000)	.000	.000	.
Density	1.05(.000)	.000	.000	.	1.05(.000)	.000	.000	.
Nutrition	1.00(.000)	.000	.000	.	1.60(.000)	.000	.000	.
Normal nutrition	.34(.003)	.040	.000	.	.34(.003)	.040	.000	.
Third space value	.49(.016)	.052	.003	-2.27(.133)	.49(.000)	.000	.000	.

Note: The Value in parentheses is the Standard Error.

Table 4.2.9 Statistics Comparison of Main Bioimpedance Parameters for BMI Group 2.

Main Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Impedance at 5K	708.07(17.85)	69.163	4783.495	-2.08(1.1)	690.47(21.29)	82.483	6803.410	-.950(1.12)
Impedance at 50K	590.87(23.75)	92.019	8467.410	.414(1.1)	612.80(20.13)	77.992	6082.743	-1.04(1.12)
Impedance at 100K	597.93(16.42)	63.613	4046.638	-2.08(1.1)	581.07(19.31)	74.824	5598.638	-1.09(1.12)
Impedance at 200K	572.00(15.90)	61.588	3793.143	-2.08(1.1)	555.87(18.50)	71.677	5137.552	-1.13(1.12)
Reactance at 50K	627.73(17.01)	65.901	4342.924	-2.08(1.1)	609.80(20.13)	77.992	6082.743	-1.04(1.12)
Resistance at 50K	62.39(1.06)	4.134	17.090	-2.06(1.1)	61.41(1.51)	5.848	34.198	.317(1.12)
Phase Angle at 50 kHz	5.70(.057)	.220	.049	-1.72(1.1)	5.77(.058)	.225	.051	-1.48(1.12)
BMR	1387.13(28.5)	110.554	12222.26	-2.09(1.1)	1416.47(32.4)	125.524	15756.267	-1.26(1.12)
BCM	21.79(.528)	2.046	4.184	-2.09(1.1)	23.24(1.08)	4.182	17.490	1.713(1.12)
ICW	15.27(.371)	1.437	2.065	-2.09(1.1)	16.28(.758)	2.936	8.617	1.688(1.12)
Normal ICW	17.16(.275)	1.065	1.134	-2.09(1.1)	18.07(.652)	2.525	6.375	2.349(1.12)
ECW	13.77(.300)	1.161	1.348	-2.09(1.1)	14.21(.411)	1.592	2.534	-.118(1.12)
Normal ECW	11.44(.183)	.710	.504	-2.09(1.1)	12.36(.635)	2.460	6.053	3.354(1.12)
TBW	29.19(.690)	2.671	7.136	-2.08(1.1)	30.71(1.195)	4.628	21.423	1.028(1.12)
Min TBW	28.80(.393)	1.521	2.314	-2.09(1.1)	30.20(.991)	3.840	14.743	2.560(1.12)
Max TBW	34.40(.524)	2.028	4.114	-2.09(1.1)	36.00(1.15)	4.472	20.000	2.077(1.12)

Note:BMR = Basal Metabolic Rate. ICW = Intra Cellular Water. ECW = Extra Cellular Water. TBW = Total body water volume. BCM = Body cell mass.
The Value in parentheses is the Standard Error.

Table 4.2.10 Statistics Comparison of Secondary Bioimpedance Parameters for BMI Group 2.

Secondary Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Percentage of fat	30.43(.990)	3.833	14.690	-2.09(1.21)	29.58(1.094)	4.239	17.969	-1.32(1.21)
Min fat	10.20(.262)	1.014	1.029	-2.09(1.21)	10.20(.243)	.941	.886	-1.85(1.21)
Max fat	13.80(.393)	1.521	2.314	-2.09(1.21)	13.73(.371)	1.438	2.067	-2.06(1.21)
Percenge of lean	69.57(.990)	3.833	14.690	-2.09(1.21)	70.42(1.094)	4.239	17.969	-1.32(1.21)
Min lean	38.40(1.178)	4.564	20.829	-2.09(1.21)	40.47(1.707)	6.610	43.695	-.032(1.21)
Max lean	42.00(1.309)	5.071	25.714	-2.09(1.21)	44.00(1.746)	6.761	45.714	-.505(1.21)
Dry lean weight	10.72(.499)	1.933	3.737	-2.09(1.21)	11.05(.508)	1.966	3.864	-1.58(1.21)
Percentage of water	50.96(.407)	1.575	2.480	-2.05(1.21)	51.83(.711)	2.753	7.578	1.30(1.21)
Min water	28.80(.393)	1.521	2.314	-2.09(1.21)	30.20(.991)	3.840	14.743	2.56(1.21)
Max water	34.40(.524)	2.028	4.114	-2.09(1.21)	36.00(1.155)	4.472	20.000	2.07(1.21)
Density	1.03(.003)	.010	.000	-2.09(1.21)	1.03(.003)	.011	.000	-1.38(1.21)
Nutrition	.47(.001)	.005	.000	-2.09(1.21)	.22(.034)	.132	.017	1.08(1.21)
Normal nutrition	.42(.005)	.013	.000	4.356(.56)	.42(.005)	.013	.000	4.323(.56)
Third space value	.22(.003)	.126	.016	1.88(1.21)	.47(.004)	.016	.000	3.17(1.21)

Note: The Value in parentheses is the Standard Error.

Table 4.2.11 Statistics Comparison of Main Bioimpedance Parameters for BMI Group 3.

Main Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Impedance at 5K	632.37(6.20)	74.657	5573.734	1.771(.40)	621.63(6.79)	81.854	6700.013	.173(.40)
Impedance at 50K	571.58(6.33)	76.228	5810.704	2.183(.40)	548.88(8.298)	99.922	9984.313	.034(.40)
Impedance at 100K	547.68(6.33)	76.271	5817.248	2.175(.40)	525.45(8.272)	99.603	9920.805	.097(.40)
Impedance at 200K	526.10(6.31)	76.041	5782.260	2.067(.40)	505.62(8.300)	99.946	9989.140	.119(.40)
Reactance at 50K	569.34(6.34)	76.362	5831.170	2.179(.40)	546.43(8.368)	100.764	10153.371	.039(.40)
Resistance at 50K	48.48(.578)	6.965	48.508	-.217(.40)	50.37(.803)	9.674	93.584	-.134(.40)
Phase Angle at 50 kHz	4.94(.072)	.867	.752	-.396(.40)	5.56(.169)	2.031	4.124	1.773(.40)
BMR	1353.6(18.28)	220.122	48453.61	1.635(.40)	1380.01(18.6)	224.144	50240.416	.942(.40)
BCM	24.78(.335)	4.039	16.309	1.260(.40)	25.73(.377)	4.535	20.570	-.667(.40)
ICW	17.35(.234)	2.824	7.973	1.297(.40)	18.02(.264)	3.174	10.075	-.654(.40)
Normal ICW	20.36(.198)	2.388	5.703	2.068(.40)	20.39(.205)	2.466	6.080	1.805(.40)
ECW	15.12(.116)	1.395	1.946	.803(.40)	15.24(.115)	1.388	1.926	.159(.40)
Normal ECW	13.92(.200)	2.408	5.798	2.396(.40)	13.96(.206)	2.480	6.152	2.092(.40)
TBW	32.26(.376)	4.523	20.454	.902(.40)	33.21(.404)	4.865	23.672	-.605(.40)
Min TBW	34.01(.298)	3.532	12.472	1.891(.40)	34.07(.302)	3.634	13.204	1.671(.40)
Max TBW	40.33(.351)	4.228	17.876	1.492(.40)	40.39(.361)	4.342	18.851	1.318(.40)

Note:BMR = Basal Metabolic Rate. ICW = Intra Cellular Water. ECW = Extra Cellular Water. TBW = Total body water volume. BCM = Body cell mass.
The Value in parentheses is the Standard Error.

Table 4.2.12 Statistics Comparison of Secondary Bioimpedance Parameters for BMI Group 3.

Secondary Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Percentage of fat	38.74(.743)	8.949	80.076	.041(.400)	36.98(.801)	9.646	93.053	-.795(.400)
Min fat	10.99(.104)	1.247	1.555	-1.12(.400)	11.06(.121)	1.452	2.108	-.389(.400)
Max fat	14.63(.110)	1.323	1.749	-.472(.400)	15.08(.138)	1.660	2.757	-.775(.400)
Percenge of lean	61.25(.745)	8.968	80.419	.035(.400)	63.01(.801)	9.642	92.974	-.791(.400)
Min lean	39.55(.722)	8.699	75.666	.857(.400)	40.61(.752)	9.051	81.921	.105(.400)
Max lean	43.19(.729)	8.783	77.143	1.28(.400)	44.63(.752)	9.052	81.942	.460(.400)
Dry lean weight	8.69(.398)	4.787	22.917	.505(.400)	8.91(.401)	4.823	23.261	.478(.400)
Percentage of water	48.55(.411)	4.948	24.486	1.32(.400)	53.17(3.295)	39.681	1574.589	138.8(.400)
Min water	34.01(.293)	3.532	12.472	1.89(.400)	34.07(.302)	3.634	13.204	1.671(.400)
Max water	40.34(.350)	4.218	17.795	1.50(.400)	40.39(.361)	4.342	18.851	1.318(.400)
Density	1.01(.001)	.018	.000	.233(.400)	1.02(.002)	.019	.000	-.792(.400)
Nutrition	.47(.001)	.017	.000	.800(.400)	-.05(.058)	.696	.484	1.179(.400)
Normal nutrition	.37(.004)	.012	.000	3.678(.37)	.37(.004)	.012	.000	3.576(.37)
Third space value	-.22(.054)	.654	.427	3.27(.400)	.46(.002)	.024	.001	-.860(.400)

Note: The Value in parentheses is the Standard Error.

Table 4.2.13 Statistics Comparison of Main Bioimpedance Parameters for BMI Group 4.

Main Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Impedance at 5K	648.89(25.13)	109.548	12000.76	-2.1(1.01)	657.32(26.33)	114.796	13178.228	-2.13(1.01)
Impedance at 50K	595.21(28.84)	125.738	15810.06	-2.1(1.10)	582.00(30.65)	133.638	17859.000	-2.06(1.01)
Impedance at 100K	574.11(29.76)	129.728	16829.32	-2.1(1.10)	603.00(29.92)	130.419	17009.000	-2.08(1.01)
Impedance at 200K	556.68(30.13)	131.350	17252.78	-2.0(1.01)	564.26(30.91)	134.769	18162.760	-2.05(1.01)
Reactance at 50K	593.58(29.07)	126.726	16059.36	-2.1(1.01)	601.32(30.16)	131.474	17285.450	-2.07(1.01)
Resistance at 50K	42.00(1.69)	7.404	54.823	-1.2(1.01)	41.04(2.02)	8.838	78.108	-1.86(1.01)
Phase Angle at 50 kHz	4.31(.409)	1.784	3.181	-1.8(1.01)	4.33(.385)	1.678	2.815	-1.50(1.01)
BMR	27.27(1.68)	7.353	54.072	-1.3(1.01)	26.59(1.72)	7.498	56.219	-1.10(1.01)
BCM	1450(89.8)	391.790	153499.5	-1.3(1.01)	1404.2(92.81)	404.567	163674.31	-1.11(1.01)
ICW	19.08(1.18)	5.142	26.440	-1.3(1.01)	18.62(1.207)	5.259	27.658	-1.09(1.01)
Normal ICW	23.61(.961)	4.187	17.531	-1.4(1.01)	22.63(1.032)	4.498	20.235	-1.11(1.01)
ECW	15.95(.598)	2.606	6.792	-1.8(1.01)	15.63(.596)	2.599	6.756	-1.64(1.01)
Normal ECW	16.49(.913)	3.979	15.833	-1.0(1.01)	15.84(.975)	4.251	18.074	-.910(1.01)
TBW	34.24(1.85)	8.083	65.342	-1.4(1.01)	33.77(1.88)	8.202	67.266	-1.30(1.01)
Min TBW	39.00(1.48)	6.455	41.667	-1.5(1.01)	37.68(1.53)	6.692	44.784	-1.15(1.01)
Max TBW	46.79(1.67)	7.307	53.398	-1.5(1.01)	44.68(1.84)	8.056	64.895	-1.21(1.01)

Note:BMR = Basal Metabolic Rate. ICW = Intra Cellular Water. ECW = Extra Cellular Water. TBW = Total body water volume. BCM = Body cell mass.
The Value in parentheses is the Standard Error.

Table 4.2.14 Statistics Comparison of Secondary Bioimpedance Parameters for BMI Group 4

Secondary Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Percentage of fat	42.98(2.898)	12.632	159.577	-1.20(1.01)	42.68(3.198)	13.938	194.277	-1.73(1.01)
Min fat	10.58(.492)	2.143	4.591	-.843(1.01)	10.42(.435)	1.895	3.591	-.577(1.01)
Max fat	14.74(.451)	1.968	3.871	-1.11(1.01)	14.21(.538)	2.347	5.509	-1.50(1.01)
Percenge of lean	57.02(2.898)	12.632	159.577	-1.20(1.01)	57.32(3.198)	13.938	194.277	-1.73(1.01)
Min lean	42.58(3.428)	14.942	223.257	-1.45(1.01)	41.21(3.497)	15.245	232.398	-1.24(1.01)
Max lean	46.74(3.512)	15.307	234.316	-1.38(1.01)	45.00(3.692)	16.093	259.000	-1.25(1.01)
Dry lean weight	9.95(1.637)	7.134	50.888	-1.41(1.01)	8.77(1.757)	7.657	58.633	-1.20(1.01)
Percentage of water	44.73(1.164)	5.072	25.725	-.996(1.01)	46.19(1.312)	5.721	32.728	-2.06(1.01)
Min water	39.00(1.481)	6.455	41.667	-1.57(1.01)	37.68(1.535)	6.692	44.784	-1.15(1.01)
Max water	46.79(1.676)	7.307	53.398	-1.56(1.01)	44.68(1.848)	8.056	64.895	-1.21(1.01)
Density	1.00(.006)	.026	.001	-1.28(1.01)	1.00(.006)	.026	.001	-1.71(1.01)
Nutrition	.46(.006)	.026	.001	-.942(1.01)	-.47(.146)	.635	.403	-1.22(1.01)
Normal nutrition	.37(.002)	.012	.000	3.876(.45)	.37(.002)	.012	.000	3.789(.45)
Third space value	-.79(.117)	.512	.262	-.567(1.01)	.46(.006)	.027	.001	-.767(1.01)

Note: The Value in parentheses is the Standard Error.

Table 4.2.15 Statistics Comparison of Main Bioimpedance Parameters for BMI Group 5

Main Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Impedance at 5K	573.71(8.636)	55.299	3058.012	.999(.724)	565.9(.9288)	59.469	3536.590	1.411(.724)
Impedance at 50K	517.78(7.707)	49.346	2435.076	5.55(.724)	499.6(7.847)	50.247	2524.780	9.077(.724)
Impedance at 100K	491.61(7.586)	48.575	2359.544	7.78(.724)	476.0(8.711)	55.781	3111.498	6.368(.724)
Impedance at 200K	464.32(7.430)	47.575	2263.422	11.6(.724)	451.3(8.759)	56.086	3145.680	7.473(.724)
Reactance at 50K	514.46(7.740)	49.331	2433.505	6.11(.724)	496.4(7.912)	50.660	2566.402	9.363(.724)
Resistance at 50K	57.35(1.741)	11.149	124.311	-.72(.724)	51.41(3.475)	22.252	495.170	.262(.724)
Phase Angle at 50 kHz	6.38(.169)	1.080	1.167	2.28(.724)	5.94(.415)	2.657	7.058	.994(.724)
BMR								
BCM	33.79(.370)	2.371	5.622	23.8(.724)	34.27(.436)	2.795	7.810	13.97(.724)
ICW	23.65(.259)	1.657	2.746	23.8(.724)	23.97(.305)	1.955	3.820	14.05(.724)
Normal ICW	32.68(.322)	2.061	4.250	41.0(.724)	32.67(.329)	2.108	4.445	41.00(.724)
ECW	18.71(.215)	1.376	1.892	3.60(.724)	18.82(.227)	1.453	2.112	3.743(.724)
Normal ECW	21.79(.215)	1.374	1.889	41.0(.724)	21.78(.220)	1.406	1.976	41.00(.724)
TBW	37.73(.471)	3.014	9.085	2.16(.724)	38.36(.469)	3.002	9.011	3.899(.724)
Min TBW	54.46(.537)	3.436	11.805	41.0(.724)	54.46(.537)	3.436	11.805	41.00(.724)
Max TBW	65.37(.634)	4.061	16.488	41.0(.724)	65.34(.659)	4.217	17.780	41.00(.724)

Note:BMR = Basal Metabolic Rate. ICW = Intra Cellular Water. ECW = Extra Cellular Water. TBW = Total body water volume. BCM = Body cell mass.
The Value in parentheses is the Standard Error.

Table 4.2.16 Statistics Comparison of Secondary Bioimpedance Parameters for BMI Group 5.

Secondary Bioimpedance Parameters	BEFORE TREATMENT				AFTER TREATMENT			
	Mean	Std. Dev	Variance	Kurtosis	Mean	Std. Dev	Variance	Kurtosis
Percentage of fat	57.12(.717)	4.594	21.102	-2.092(.72)	56.52(.688)	4.405	19.407	-1.989(.72)
Min fat	13.78(.214)	1.370	1.876()	1.820(.72)	13.98(.193)	1.235	1.524	4.879(.72)
Max fat	18.56(.185)	1.184	1.402()	11.428(.72)	18.93(.227)	1.456	2.120	11.895(.72)
Percenge of lean	42.88(.717)	4.594	21.102	-2.092(.72)	43.48(.688)	4.405	19.407	-1.989(.72)
Min lean	44.80(.934)	5.980	35.761	-.991(.72)	45.07(.834)	5.340	28.520	.516(.72)
Max lean	49.59(.884)	5.661	32.049	-.363(.72)	50.02(.860)	5.507	30.324	1.541(.72)
Dry lean weight	8.93(.421)	2.698	7.282	-1.840(.72)	8.98(.433)	2.772	7.687	-1.342(.72)
Percentage of water	34.69(.380)	2.431	5.908	-1.224(.72)	35.30(.364)	2.332	5.436	-1.051(.72)
Min water	54.46(.537)	3.436	11.805	41.000(.72)	54.46(.537)	3.436	11.805	41.000(.72)
Max water	65.37(.634)	4.061	16.488	41.000(.72)	65.34(.659)	4.217	17.780	41.000(.72)
Density	.93(.012)	.078	.006	-.515(.72)	.94(.013)	.080	.006	-.529(.72)
Nutrition	.44(.002)	.011	.000	2.103(.72)	.44(.003)	.018	.000	.609(.72)
Normal nutrition	.38(.002)	.014	.000	4.678(.78)	.38(.002)	.014	.000	4.778(.78)
Third space value	-4.63(.152)	.970	.941	3.250(.72)	-4.43(.191)	1.223	1.495	.575(.72)

Note: The Value in parentheses is the Standard Error.