Supplementary Table 1

Analysis of the correlation coefficients regarding the association between age of TS subjects and anthropometric, bioimpedance, cardiometabolic variables and the atherogenic indexes.

	Age			
	R	R^2	95% CI	*p*
BMI	0.29	0.087	0,09 - 0,47	***0.0054***
WC	0.26	0.07	0.058 - 0.45	***0,0128***
WHR	0.27	0.071	0.06 – 0.45	***0.0123***
WHtR	0.056	0.0031	-0,16 - 0.26	0,6038
FFM	-0.024	0.00057	-0.23 - 0.19	0.8258
%FFM	-0.17	0.03	-0.37 – 0.04	0.1073
FM	0.36	0.13	0.16 - 0.53	***0.0006***
%FM	0.38	0.14	0.18 - 0.55	***0.0003***
FFM to FM Ratio	-0.22	0.047	-0.01 – 0.41	***0.0431***
TBW	-0.075	0.0057	-0.28 – 0.14	0.486
%TBW	-0.28	0.08	-0.47 - -0.1	***0.0075***
Fasting Plasma Glucose	0.12	0.014	-0.09 – 0.3	0.279
Triglycerides	0.3	0.089	0.1 – 0.48	***0.0046***
Total Cholesterol	0.27	0.074	0.07 – 0.46	***0.0102***
LDL-c (mg/ml)	0.21	0.044	0.001 – 0.4	***0.0487***
HDL-c (mg/ml)	-0.12	0.014	-0.32 – 0.1	0.2786
TC to HDL-c Ratio	0.37	0.13	0.17 - 0.54	***0.0004***
Atherogenic Index of Plasma	0.32	0.1	0.12 - 0.5	***0.0021***
LDL-c to HDL-c Ratio	0.29	0.084	0.085 - 0.47	***0.0062***
No-HDL-c to HDL-c Ratio	0.37	0.13	0.17 – 0.54	***0.0004***

Supplementary Table 2

Analysis of the correlation coefficients regarding the association between the anthropometric variables and cardiometabolic variables and the atherogenic indexes in TS Subjects with Overweight/Obesity

	BMI		WC		WHR		WHtR	
	r	*p*	*r*	*p*	*R*	*p*	*r*	*p*
Fasting Plasma Glucose	0.29	0.0552	0.25	0.1002	-0.018	0.9067	0.26	0.0826
Triglycerides	0.095	0.5409	0.0033	0.9832	-0.078	0.6136	0.03	0.8448
Total Cholesterol	0.27	0.0792	***0.37***	***0.0129***	0.22	0.1457	***0.38***	***0.0116***
LDL-c	***0.35***	***0.0211***	***0.5***	***0.0006***	***0.44***	***0.0029***	***0.5***	***<0.0005***
HDL-c	-0.12	0.4243	0.011	0.9442	0.083	0.5932	**0.016**	**0.9175**
TC to HDL-c Ratio	0.26	0.0929	0.19	0.2128	-0.027	0. 863	0.2	0.1873
Atherogenic Index of Plasma	-0.076	0.6229	-0.07	0.6525	-0.17	0. 2713	-0.051	0.7447
LDL-c to HDL-c Ratio	***0.34***	***0.0246***	***0.4***	***0.0067***	***0.33***	***0.0306***	***0.41***	***0.0064***
No-HDL-c to HDL-c Ratio	0.26	0.0929	0.19	0.2128	-0.027	0.863	0.2	0.1873

r = correlation coefficient; values in **bold** and ***italic*** represent significant values; TS: Turner syndrome; MetS: Metabolic Syndrome; TC: Total Cholesterol; HDL-c: High Density Lipoprotein cholesterol; LDL-c: Low Density Lipoprotein cholesterol; BMI: Body Mass Index; WC: Waist Circumference; WHR: Waist to Hip Ratio; WHtR: Waist to Height Ratio. The No-HDL-c is calculated as CT *minus* HDL-c. The Atherogenic Index of the Plasma is calculated through the formula of log(Triglycerides (mg/ml)/HDLc (mg/ml)). *Pearson* correlation or *Spearman* correlation (*) test for the correlation between variables, considering significance when $p < 0.05$

Supplementary Table 3

Analysis of the correlation coefficients regarding the association between the bioimpedance parameters and cardiometabolic variables and the atherogenic indexes in TS Subjects with Overweight/Obesity

	FM		PFM		FFM		PFFM		FFM to FM Ratio	
	r	*p*	*r*	*P*	*r*	*p*	*r*	*p*	*r*	*p*
Fasting Plasma Glucose	***0.33***	***0.0291***	0.27	0.0785	-0.13	0.3914	-0.25	0.096	0.27	0.0742
Triglycerides	0.1	0.5017	0.17	0 2705	0.12	0.424	0.038	0.8045	-0.047	0.7613
Total Cholesterol	0.27	0.0754	0.2	0.1961	***-0.45***	***0.0024***	***-0.49***	***0.0007***	***0.44***	***0.0026***
LDL-c	***0.36***	***0.0159***	0.26	0.0934	***-0.68***	***<0.0001***	-0.71	<0.0001	***0.67***	***<0.0001***
HDL-c	0.17	0.267	-0.17	0.2671	-0.22	0.1438	-0.1	0.5094	0.046	0.7647
TC to HDL-c Ratio	0.13	0.4063	***0.31***	***0.0387***	-0.13	0.4063	-0.25	0.1043	-0.24	0.109
Atherogenic Index of Plasma	0.22	0.1592	0.18	0.236	0.22	0.1592	0.11	0.4678	-0.11	0.484
LDL-c to HDL-c Ratio	***-0.5***	***0. 0006***	***0.32***	***0.0336***	***-0.5***	***0.0006***	***-0.57***	***<0.0001***	***-0.56***	***<0,0001***
No-HDL-c to HDL-c Ratio	0.13	0.4502	***0.31***	***0.0387***	-0.13	0.4063	-0.25	0.1043	0.24	0.109

r = correlation coefficient; values in **bold** and ***italic*** represent significant values; TS: Turner syndrome; MetS: Metabolic Syndrome; TC: Total Cholesterol; HDL-c: High Density Lipoprotein cholesterol; LDL-c: Low Density Lipoprotein cholesterol; FFM: Free fat mass; PFFM: Percentage of Free Fat Mass; FM: Fat Mass; PFM: Percentage of Fat Mass. TBW: Total Body Water. PTBW: Percentage of Total Body Water. The No-HDL-c is calculated as CT *minus* HDL-c. The Atherogenic Index of the Plasma is calculated through the formula of log(Triglycerides (mg/ml)/HDLc (mg/ml)). *Pearson* correlation or *Spearman* correlation (*) test for the correlation between variables, considering significance when $p < 0.05$

Supplementary Table 4

Analysis of the correlation coefficients regarding the association between the anthropometric variables and cardiometabolic variables and the atherogenic indexes in TS Subjects with MetS

	BMI		WC		WHR		WHtR	
	r	*P*	*r*	*p*	*r*	*p*	*r*	*p*
Fasting Plasma Glucose	0.02746	0.8756	0.002249	0.9898	-0.0969	0.5798	0.006086	0.9723
Triglycerides	0.1069	0.5411	-0.03601	0.8373	-0.1294	0.4587	0.01081	0.9509
Total Cholesterol	***0.4469***	***0.0071***	***0.5143***	***0.0016***	***0.4351***	***0.009***	***0.5185***	***0.0014***
LDL-c	***0.5713***	***0.0003***	***0.5895***	***0.0002***	***0.4189***	***0.0123***	***0.6261***	***<0.0001***
HDL-c	0.194	0.2641	0.2829	0.0996	0.2609	0.1301	***0.3858***	***0.0221***
TC to HDL-c Ratio	0.08217	0.6389	0.056	0.7493	-0.07097	0.6854	0.0761	0.6639
Atherogenic Index of Plasma	-0.3251	0.0567	-0.2072	0.2325	-0.0516	0.7685	-0.1655	0.3421
LDL-c to HDL-c Ratio	***0.3383***	***0.0468***	***0.3398***	***0.041***	0.2225	0.199	***0.3472***	***0.041***
No-HDL-c to HDL-c Ratio	0.08217	0.6389	0.056	0.7493	-0.07097	0.6854	0.0761	0.6639

r = correlation coefficient; values in **bold** and ***italic*** represent significant values; TS: Turner syndrome; MetS: Metabolic Syndrome; TC: Total Cholesterol; HDL-c: High Density Lipoprotein cholesterol; LDL-c: Low Density Lipoprotein cholesterol; BMI: Body Mass Index; WC: Waist Circumference; WHR: Waist to Hip Ratio; WHtR: Waist to Height Ratio. The No-HDL-c is calculated as CT *minus* HDL-c. The Atherogenic Index of the Plasma is calculated through the formula of log(Triglycerides (mg/ml)/HDLc (mg/ml)). *Pearson* correlation or *Spearman* correlation (*) test for the correlation between variables, considering significance when $p < 0.05$.

Supplementary Table 5

Analysis of the correlation coefficients regarding the association between the bioimpedance parameters and cardiometabolic variables and the atherogenic indexes in TS Subjects with MetS

	FM		PFM		FFM		PFFM		FFM to FM Ratio	
	r	*P*	*r*	*P*	*r*	*p*	*r*	*p*	*R*	*p*
Fasting Plasma Glucose	-0.053	0.7618	***-0.37***	***0.0289***	-0.21	0.22	***-0.56***	***0.0005***	-0.28	0.0976
Triglycerides	-0.073	0.6787	0.25	0.148	-0.28	0.1045	-0.27	0.1201	-0.29	0.0872
Total Cholesterol	0.028	0.871	0.098	0.5761	***0.42***	***0.0131***	***0.42***	***0.012***	0.12	0.4836
LDL-c	-0.016	0.9281	0.2	0.244	***0.39***	***0.0221***	***0.65***	***<0.0001***	-0.052	0.7653
HDL-c	0.04	0.8207	-0.17	0.323	***0.43***	***0.0095***	***0.66***	***<0.0001***	0.31	0.0709
TC to HDL-c Ratio	0.13	0.4502	0.22	0.2074	0.13	0.4483	0.038	0.8305	-0.028	0.8749
Atherogenic Index of Plasma	0.025	0.8846	0.13	0.4557	***-0.46***	***0.0054***	***-0.39***	***0.0221***	***-0.34***	***0.05***
LDL-c to HDL-c Ratio	0.26	0.1246	0.23	0.1749	***-0.36***	***0.033***	***-0.42***	***0.0123***	***-0.41***	***0.0149***
No-HDL-c to HDL-c Ratio	0.13	0.4502	0.22	0.2074	0.13	0.4483	0.038	0.8305	-0.028	0.8749

r = correlation coefficient; values in **bold** and ***italic*** represent significant values; TS: Turner syndrome; MetS: Metabolic Syndrome; TC: Total Cholesterol; HDL-c: High Density Lipoprotein cholesterol; LDL-c: Low Density Lipoprotein cholesterol; FFM: Free fat mass; PFFM: Percentage of Free Fat Mass; FM: Fat Mass; PFM: Percentage of Fat Mass. TBW: Total Body Water. PTBW: Percentage of Total Body Water. The No-HDL-c is calculated as CT *minus* HDL-c. The Atherogenic Index of the Plasma is calculated through the formula of log(Triglycerides (mg/ml)/HDLc (mg/ml)). *Pearson* correlation or *Spearman* correlation (*) test for the correlation between variables, considering significance when $p < 0.05$

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