

Table S2: Independent-samples t-test comparing means of continuous traits among categorical groups. (*) Correlation significant at 95% confidence level.

Trait	Group	Obesity			Hypertriglyceridemia			Hypercholesterolemia			Hyperlipidemia			Dyslipidemia		
		N	Mean	p	N	Mean	p	N	Mean	p	N	Mean	p	N	Mean	p
Age (years)	Aff.	91	67.59	0.091	84	67.90	0.380	135	67.99	0.164	73	67.71	0.256	153	68.05	0.122
	Unaff.	85	69.07		92	68.67		41	69.34		103	68.73		23	70.00	
Weight (kg)	Aff.	91	69.02	<0.001	84	64.93	0.022	135	64.23	0.030	73	65.23	0.016	153	64.03	0.036
	Unaff.	85	57.00	*	92	61.65	*	41	59.87	*	103	61.79	*	23	57.78	*
Height (cm)	Aff.	91	151.05	0.004	84	151.54	0.108	135	152.53	0.224	73	151.70	0.260	153	152.25	0.983
	Unaff.	85	153.52	*	92	152.89		41	151.32		103	152.63		23	152.22	
BMI (kg/m ²)	Aff.	91	30.22	<0.001	84	28.28	0.001	135	27.64	0.052	73	28.37	0.002	153	27.65	0.017
	Unaff.	85	24.13	*	92	26.37	*	41	26.08		103	26.51	*	23	24.83	*
FM (%)	Aff.	91	40.94	<0.001	84	38.18	0.088	135	37.64	0.287	73	38.39	0.056	153	37.63	0.241
	Unaff.	85	33.35	*	92	36.45		41	36.07		103	36.49		23	34.91	
FFM (%)	Aff.	91	55.55	<0.001	84	57.99	0.073	135	58.55	0.297	73	57.81	0.050	153	58.58	0.285
	Unaff.	85	62.44	*	92	59.70		41	59.96		103	59.64	*	23	60.91	
Triglycerides (mg/dL)	Aff.	91	167.49	0.152	84	217.64	<0.001	135	166.82	0.002	73	219.26	<0.001	153	166.98	<0.001
	Unaff.	85	146.26		92	102.09	*	41	125.68	*	103	113.28	*	23	92.43	*
Total lipids (mg/dL)	Aff.	91	756.23	0.272	84	804.80	<0.001	135	791.69	<0.001	73	832.06	<0.001	153	769.94	<0.001
	Unaff.	85	732.43		92	689.89	*	41	590.12	*	103	682.84	*	23	577.04	*
Total cholesterol (mg/dL)	Aff.	91	233.15	0.977	84	238.01	0.160	135	248.67	<0.001	73	247.67	<0.001	153	240.24	<0.001
	Unaff.	85	233.34		92	228.89		41	182.46	*	103	223.02	*	23	186.74	*
LDL (mg/dL)	Aff.	91	140.31	0.897	84	136.57	0.280	135	152.65	<0.001	73	145.75	0.082	153	145.27	<0.001
	Unaff.	85	139.53		92	143.00		41	98.05	*	103	135.81		23	104.43	*
VLDL (mg/dL)	Aff.	91	31.92	0.029	84	39.86	<0.001	135	31.32	0.004	73	39.65	<0.001	153	31.58	<0.001
	Unaff.	85	27.61	*	92	20.69	*	41	24.95	*	103	22.89	*	23	18.30	*
HDL (mg/dL)	Aff.	91	59.52	0.003	84	60.04	0.043	135	62.29	0.099	73	60.02	0.076	153	61.50	0.498
	Unaff.	85	63.93	*	92	63.12	*	41	59.53		103	62.81		23	62.65	
Fasting glucose (mg/dL)	Aff.	91	107.99	0.088	84	112.54	0.001	135	106.48	0.008	73	114.23	0.001	153	106.22	<0.001
	Unaff.	85	100.40		92	96.83	*	41	97.20	*	103	97.30	*	23	91.75	*
SBP (mmHg)	Aff.	91	140.11	0.056	84	143.04	0.001	135	138.14	0.102	73	145.14	<0.001	153	137.29	0.240
	Unaff.	85	132.47		92	130.38	*	41	130.73		103	130.24	*	23	130.65	
DBP (mmHg)	Aff.	91	83.79	0.021	84	83.69	0.041	135	81.67	0.449	73	84.66	0.013	153	81.14	0.966
	Unaff.	85	78.35	*	92	78.86	*	41	79.52		103	78.69	*	23	81.30	
Lipid intake (%)	Aff.	91	33.66	0.083	84	34.49	0.653	135	34.54	0.244	73	34.66	0.460	153	34.41	0.512
	Unaff.	85	35.00		92	34.14		41	33.53		103	34.05		23	33.59	
EUR (%)	Aff.	91	60.15	0.042	84	58.57	0.472	135	57.69	0.896	73	59.51	0.198	153	57.50	0.808
	Unaff.	85	54.87	*	92	56.72		41	57.32		103	56.25		23	58.26	
AMR (%)	Aff.	91	24.27	0.192	84	28.01	0.039	135	25.13	0.415	73	26.56	0.476	153	26.05	0.307
	Unaff.	85	27.13		92	23.50	*	41	27.39		103	25.01		23	23.00	
AFR (%)	Aff.	91	15.57	0.281	84	13.42	0.003	135	17.19	0.434	73	13.93	0.026	153	16.44	0.447
	Unaff.	85	18.00		92	19.78	*	41	15.29		103	18.74	*	23	18.74	

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Trait	Group	Glucose intolerance			Type 2 Diabetes			Hypertension			Normolipidic diet		
		N	Mean	p	N	Mean	p	N	Mean	p	N	Mean	p
Age (years)	Aff.	42	68.93	0.432	24	69.46	0.329	147	68.30	0.970	117	68.26	0.902
	Unaff.	134	68.11		152	68.13		29	68.34		59	68.39	
Weight (kg)	Aff.	42	64.33	0.369	24	65.33	0.238	147	63.86	0.047	117	63.97	0.132
	Unaff.	134	62.86		152	62.88		29	59.97	*	59	61.71	
Height (m)	Aff.	42	151.81	0.553	24	152.25	0.996	147	152.33	0.647	117	151.94	0.318
	Unaff.	134	152.38		152	152.24		29	151.83		59	152.85	
BMI (kg/m ²)	Aff.	42	27.97	0.221	24	28.22	0.229	147	27.54	0.055	117	27.73	0.028
	Unaff.	134	27.07		152	27.13		29	26.00		59	26.40	*
FM (%)	Aff.	42	37.60	0.732	24	37.32	0.976	147	37.30	0.922	117	38.11	0.025
	Unaff.	134	37.17		152	37.27		29	37.17		59	35.62	*
FFM (%)	Aff.	42	58.62	0.774	24	58.79	0.949	147	58.84	0.845	117	58.19	0.048
	Unaff.	134	58.96		152	58.89		29	59.07		59	60.24	
Triglycerides (mg/dL)	Aff.	42	205.95	0.010	24	203.29	0.023	147	163.39	0.015	117	160.32	0.473
	Unaff.	134	141.97	*	152	149.97	*	29	126.03	*	59	151.12	
Total lipids (mg/dL)	Aff.	42	767.52	0.309	24	767.06	0.544	147	750.59	0.164	117	738.11	0.385
	Unaff.	134	737.59		152	741.21		29	715.03		59	757.86	
Total cholesterol (mg/dL)	Aff.	42	235.02	0.777	24	231.58	0.844	147	234.27	0.435	117	232.07	0.603
	Unaff.	134	232.69		152	233.51		29	228.03		59	235.58	
LDL (mg/dL)	Aff.	42	134.31	0.295	24	130.87	0.225	147	139.82	0.927	117	138.42	0.465
	Unaff.	134	141.69		152	141.36		29	140.52		59	142.93	
VLDL (mg/dL)	Aff.	42	35.82	0.002	24	38.30	0.006	147	30.80	0.036	117	29.58	0.693
	Unaff.	134	27.97	*	152	28.51	*	29	24.97	*	59	30.37	
HDL (mg/dL)	Aff.	42	62.10	0.767	24	62.08	0.852	147	61.54	0.725	117	61.43	0.673
	Unaff.	134	61.51		152	61.58		29	62.24		59	62.10	
Fasting glucose (mg/dL)	Aff.	42	135.45	<0.001	24	149.04	<0.001	147	106.23	0.001	117	105.00	0.625
	Unaff.	134	94.57	*	152	97.26	*	29	94.67	*	59	102.98	
SBP (mmHg)	Aff.	42	138.69	0.459	24	140.63	0.310	147	141.63	<0.001	117	134.62	0.232
	Unaff.	134	135.71		152	135.76		29	110.00	*	59	140.00	
DBP (mmHg)	Aff.	42	80.24	0.612	24	82.29	0.641	147	83.78	<0.001	117	80.81	0.680
	Unaff.	134	81.46		152	80.99		29	67.93	*	59	81.86	
Lipid intake (%)	Aff.	42	33.99	0.592	24	33.40	0.269	147	34.13	0.313	117	31.74	<0.001
	Unaff.	134	34.41		152	34.45		29	35.22		59	39.39	*
EUR (%)	Aff.	42	60.48	0.195	24	62.29	0.100	147	57.03	0.293	117	57.72	0.902
	Unaff.	134	56.70		152	56.86		29	60.48		59	57.37	
AMR (%)	Aff.	42	23.05	0.124	24	21.83	0.071	147	26.52	0.087	117	26.24	0.470
	Unaff.	134	26.47		152	26.26		29	21.24		59	24.49	
AFR (%)	Aff.	42	16.48	0.900	24	15.88	0.800	147	16.44	0.522	117	16.04	0.406
	Unaff.	134	16.83		152	16.88		29	18.28		59	18.14	