

Table S1a. Baseline values: mean values of all parameters in the entire sample and in the BMI subgroups. Data are presented as means \pm SDs. Statistical significance was set for p values ≤ 0.05 .

Outcomes	Total Sample n = 293	OVER n = 63	I OB n = 131	II OB n = 99	F	p
Age	53.08 \pm 9.07	57.43 \pm 7.89	57.76 \pm 8.75	50.73 \pm 9.29	11.411	<.001
SBP	135.05 \pm 17.43	133.68 \pm 11.10	132.52 \pm 22.7	139.04 \pm 13.26	1.907	.153
DBP	82.75 \pm 8.63	80.44 \pm 6.2	81.57 \pm 8.89	85.85 \pm 9.13	4.960	.008
GLYC	119.95 \pm 43.08	124.52 \pm 42.65	114.98 \pm 38.33	122.64 \pm 48.90	0.626	.536
HbA1c	6.61 \pm 1.35	6.86 \pm 1.38	6.44 \pm 1.25	6.61 \pm 1.42	0.926	.399
COL	200.19 \pm 39.25	191.74 \pm 45.22	200.77 \pm 42.56	205.84 \pm 28.37	1.267	.285
HDL	47.74 \pm 10.05	48.85 \pm 8.89	48.58 \pm 10.94	45.96 \pm 9.74	1.092	.339
LDL	121.71 \pm 36.14	117.51 \pm 40.16	121.69 \pm 81.03	125.12 \pm 28.52	0.402	.670
TRIG	153.98 \pm 92.29	127.38 \pm 63.04	146.60 \pm 81.03	182.46 \pm 114.63	3.943	.022
WEIGHT	95.61 \pm 17.25	79 \pm 8.96	92.08 \pm 11.84	110.84 \pm 14.87	135.576	<.001
BMI	33.59 \pm 4.49	28.04 \pm 1.31	32.46 \pm 1.48	38.63 \pm 2.99	528.954	<.001
WC	111.61 \pm 12.02	100.02 \pm 7.46	108.92 \pm 7.32	122.39 \pm 10.52	141.425	<.001
FM%	38.19 \pm 7.62	32.76 \pm 6.8	37.57 \pm 6.68	42.42 \pm 6.87	39.806	<.001
MM	56.08 \pm 11.96	50.56 \pm 9.34	54.94 \pm 11.12	61.03 \pm 12.67	17.455	<.001
LAT	39.11 \pm 10.92	35.56 \pm 9.21	38.84 \pm 10.76	41.70 \pm 11.54	6.298	.002
CHEST	27.98 \pm 9.67	25.23 \pm 8.44	27.19 \pm 9.07	30.73 \pm 10.53	7.153	<.001
PRESS	157.54 \pm 36.09	148.67 \pm 34.73	154.57 \pm 35.81	167.01 \pm 35.56	5.850	.003
LEXT	31.02 \pm 10.72	28.61 \pm 9.05	29.16 \pm 9.80	34.88 \pm 11.79	10.438	<.001
VB	-8.7 \pm 9.83	-9.33 \pm 10.16	-7.69 \pm 9.75	-9.66 \pm 9.68	1.284	.278
HB	25.83 \pm 10.54	26.46 \pm 10.86	27.18 \pm 9.86	23.59 \pm 10.95	3.399	.035
VO ₂ max	19.52 \pm 9.3	23.39 \pm 9.44	20.48 \pm 8.82	15.79 \pm 8.57	15.534	<.001
Adherence	86.9 \pm 10.28	88.2 \pm 9.19	86.4 \pm 10.38	86.8 \pm 10.82	.611	.544
MET-h per week	16.46 \pm 24.71	15.32 \pm 16.92	18.26 \pm 26.80	14.81 \pm 26.03	0.634	.531
SIT	5.36 \pm 3.17	5.34 \pm 2.99	5.22 \pm 3.22	5.55 \pm 3.23	0.296	.744

OVER= people with overweight; I OB= people with I degree of obesity; II OB= people with II degrees (or superior) of obesity.

SBP: systolic blood pressure; DBP: diastolic blood pressure; GLYC: fasting plasma glucose; HbA1c: glycosylated hemoglobin; COL: total cholesterol; HDL: high-density lipoprotein; LDL: low-density lipoprotein; TRIG: triglycerides; BMI: body mass index; FM%: fat mass percentage; MM: muscle mass; LAT: Lat Machine test value; CHEST = Chest press test value; PRESS = leg press test value; LEXT = leg extension test value; VB: vertical bending test value; HB: horizontal bending test value; VO₂ max: maximal oxygen consumption value; Adherence = the percentage of adherence to exercise intervention (calculated as number of sessions performed / total number of sessions); MET-h per week = weekly total physical activity energy expenditure; SIT = daily sitting time.

Table S1b. Baseline values: mean values of all parameters in the entire sample and in the PAL subgroups. Data are presented as means \pm SDs. Statistical significance was set for p values ≤ 0.05 .

Outcomes	Total Sample <i>n</i> = 293	high PAL <i>n</i> = 32	moderate PAL <i>n</i> = 108	low PAL <i>n</i> = 153	F	<i>p</i>
Age	53.08 \pm 9.07	50.72 \pm 9.56	54.30 \pm 9.08	52.71 \pm 8.89	2.199	.113
SBP	135.05 \pm 17.43	132.67 \pm 17.10	135.93 \pm 21.97	134.86 \pm 12.69	0.211	.810
DBP	82.75 \pm 8.63	79.33 \pm 8.21	83.49 \pm 8.61	82.92 \pm 8.69	1.399	.250
GLYC	119.95 \pm 43.08	137.13 \pm 47.86	117.07 \pm 43.54	118.31 \pm 41.23	1.366	.259
HbA1c	6.61 \pm 1.35	7.06 \pm 1.27	6.48 \pm 1.38	6.62 \pm 1.34	1.041	.356
COL	200.19 \pm 39.25	184.73 \pm 19.86	207.55 \pm 39.78	197.36 \pm 41.16	2.363	.098
HDL	47.74 \pm 10.05	46.43 \pm 9.20	46.91 \pm 8.73	48.76 \pm 11.28	0.619	.540
LDL	121.71 \pm 36.14	109.55 \pm 18.18	127.07 \pm 35.82	119.85 \pm 38.88	1.372	.258
TRIG	153.98 \pm 92.29	157.80 \pm 133.18	153.79 \pm 95.80	153.25 \pm 78.48	0.015	.985
WEIGHT	95.61 \pm 17.25	98.93 \pm 16.54	93.84 \pm 17.10	96.16 \pm 17.46	1.241	.291
BMI	33.59 \pm 4.49	34.01 \pm 4.32	32.73 \pm 4.31	34.12 \pm 4.58	3.244	.040
WC	111.61 \pm 12.02	112.78 \pm 11.88	110.41 \pm 12.38	112.22 \pm 11.8	0.887	.413
FM%	38.19 \pm 7.62	37.35 \pm 7.66	37.64 \pm 7.46	38.76 \pm 7.73	0.890	.412
MM	56.08 \pm 11.96	58.69 \pm 11.57	55.50 \pm 11.83	55.93 \pm 12.14	0.901	.407
LAT	39.11 \pm 10.92	43.15 \pm 12.49	38.00 \pm 9.93	39.09 \pm 11.14	2.635	.073
CHEST	27.98 \pm 9.67	31.22 \pm 12.04	27.06 \pm 9.51	27.98 \pm 9.18	2.195	.113
PRESS	157.54 \pm 36.09	165.69 \pm 33.93	154.38 \pm 34.78	158.17 \pm 37.33	1.200	.303
LEXT	31.02 \pm 10.72	35.06 \pm 11.70	30.67 \pm 9.56	30.50 \pm 11.21	2.242	.108
VB	-8.7 \pm 9.83	-6.34 \pm 9.76	-7.57 \pm 9.64	-9.99 \pm 9.84	2.976	.053
HB	25.83 \pm 10.54	29.25 \pm 11.65	26.52 \pm 10.12	24.62 \pm 10.45	2.948	.054
VO₂ max	19.52 \pm 9.3	21.57 \pm 8.92	20.82 \pm 9.48	18.18 \pm 9.11	3.484	.032
Adherence	86.9\pm10.28	86.3\pm10.13	88\pm10.09	86.1\pm11.65	.935	.394
MET-h per week	16.46 \pm 24.71	71.35 \pm 32.69	20.35 \pm 11.81	2.24 \pm 2.84	379.543	<.001
SIT	5.36 \pm 3.17	4.06 \pm 2.35	5.10 \pm 2.8	5.80 \pm 3.48	4.508	.012

SBP: systolic blood pressure; DBP: diastolic blood pressure; GLYC: fasting plasma glucose; HbA1c: glycosylated hemoglobin; COL: total cholesterol; HDL: high-density lipoprotein; LDL: low-density lipoprotein; TRIG: triglycerides; BMI: body mass index; FM%: fat mass percentage; MM: muscle mass; LAT: Lat Machine test value; CHEST = Chest press test value; PRESS = leg press test value; LEXT = leg extension test value; VB: vertical bending test value; HB: horizontal bending test value; VO₂ max: maximal oxygen consumption value; **Adherence = the percentage of adherence to exercise intervention (calculated as number of sessions performed / total number of sessions)**; MET-h per week = weekly total physical activity energy expenditure; SIT = daily sitting time.

Table S1c. Baseline values: mean values of all parameters in the entire sample and in the SIT subgroups. Data are presented as means \pm SDs. Statistical significance was set for p values ≤ 0.05 .

Outcomes	Total Sample <i>n</i> = 293	very high SIT <i>n</i> = 43	high SIT <i>n</i> = 99	medium SIT <i>n</i> = 63	low SIT <i>n</i> = 82	F	<i>p</i>
Age	52.84 \pm 9.01	52.19 \pm 9.54	53.81 \pm 8.65	55.08 \pm 9.75	50.30 \pm 8.02	4.043	.008
SBP	135.29 \pm 17.54	130.50 \pm 29.88	136.95 \pm 13.64	133.96 \pm 11.82	137.13 \pm 15.04	0.859	.464
DBP	83.04 \pm 8.64	86.00 \pm 8.40	82.20 \pm 7.83	80.96 \pm 7.62	83.64 \pm 9.94	1.575	.199
GLYC	121.43 \pm 43.49	131.00 \pm 61.96	122.82 \pm 40.76	121.20 \pm 41.41	114.79 \pm 34.74	0.666	.575
HbA1c	6.64 \pm 1.38	7.09 \pm 1.94	6.75 \pm 1.37	6.57 \pm 1.30	6.32 \pm 0.98	1.467	.227
COL	200.53 \pm 39.57	206.41 \pm 41.98	194.15 \pm 37.31	207.52 \pm 45.15	198.95 \pm 36.63	0.807	.492
HDL	47.71 \pm 10.16	44.95 \pm 8.48	47.41 \pm 8.78	49.15 \pm 12.74	48.36 \pm 10.31	0.708	.549
LDL	122.66 \pm 36.24	129.55 \pm 37.27	115.41 \pm 34.93	132.60 \pm 40.50	119.89 \pm 33.39	1.401	.246
TRIG	154.17 \pm 93.67	189.10 \pm 118.35	146.54 \pm 86.95	149.26 \pm 109.51	146.98 \pm 71.26	1.172	.323
WEIGHT	95.79 \pm 17.28	101.81 \pm 20.77	96.22 \pm 16.21	91.63 \pm 17.25	95.32 \pm 15.85	3.066	.028
BMI	33.62 \pm 4.5	34.53 \pm 5.06	33.80 \pm 4.16	32.58 \pm 4.68	33.72 \pm 4.37	1.808	.146
WC	111.69 \pm 12.09	114.71 \pm 14.70	112.09 \pm 11.52	109.90 \pm 12.33	111.02 \pm 10.95	1.459	.226
FM%	38.17 \pm 7.58	37.43 \pm 8.51	39.14 \pm 7.50	37.86 \pm 7.16	37.61 \pm 7.50	0.862	.461
MM	56.21 \pm 11.94	60.38 \pm 13.84	55.54 \pm 11.47	53.96 \pm 11.38	56.54 \pm 56.54	2.653	.049
LAT	39.27 \pm 10.94	41.35 \pm 11.80	39.38 \pm 11.47	38.29 \pm 8.92	38.78 \pm 11.28	0.739	.529
CHEST	28.06 \pm 9.63	29.74 \pm 9.52	27.16 \pm 9.17	26.89 \pm 8.62	29.16 \pm 10.80	1.372	.252
PRESS	158.01 \pm 35.90	173.89 \pm 33.10	156.89 \pm 35.48	154.92 \pm 33.47	153.55 \pm 37.89	3.434	.017
LEXT	31.17 \pm 10.72	33.41 \pm 10.47	31.05 \pm 11.47	29.77 \pm 8.63	31.23 \pm 11.30	0.940	.422
VB	-8.64 \pm 9.86	-10.98 \pm 11.81	-9.44 \pm 9.78	-8.16 \pm 9.71	-6.80 \pm 8.73	2.004	.114
HB	25.94 \pm 10.62	22.95 \pm 12.21	25.78 \pm 10.51	25.98 \pm 10.19	27.66 \pm 10.00	1.835	.141
VO ₂ max	19.69 \pm 9.24	20.79 \pm 8.39	18.97 \pm 9.50	19.51 \pm 9.56	20.12 \pm 9.18	0.466	.706
Adherence	86.8 \pm 10.29	87.3 \pm 8.90	88.2 \pm 9.55	86 \pm 11.04	85.8 \pm 11.94	0.780	.506
MET-h per week	16.61 \pm 24.88	6.65 \pm 9.80	13.60 \pm 18.81	22.71 \pm 33.94	20.79 \pm 26.76	5.015	.002
SIT	5.36 \pm 3.17	10.44 \pm 1.48	6.81 \pm 0.83	4.62 \pm 0.48	1.49 \pm 1.24	815.446	<.001

SBP: systolic blood pressure; DBP: diastolic blood pressure; GLYC: fasting plasma glucose; HbA1c: glycosylated hemoglobin; COL: total cholesterol; HDL: high-density lipoprotein; LDL: low-density lipoprotein; TRIG: triglycerides; BMI: body mass index; FM%: fat mass percentage; MM: muscle mass; LAT: Lat Machine test value; CHEST = Chest press test value; PRESS = leg press test value; LEXT = leg extension test value; VB: vertical bending test value; HB: horizontal bending test value; VO₂ max: maximal oxygen consumption value; Adherence = the percentage of adherence to exercise intervention (calculated as number of sessions performed / total number of sessions); MET-h per week = weekly total physical activity energy expenditure; SIT = daily sitting time.