1 *Supplementary Materials*

Oxidative/antioxidative status in patients after myocardial infarction and in those without cardiovascular event depending on anthropometric factors associated with overweight and obesity

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Table S1. Relationship between oxidative/antioxidative status and anthropometric measures in study group.

Variables	Model	Log PerOx (TOS/TAC) [μmol/L]		Square ImAnOx (TAS/TAC) [μmol/L]		Log oxLDL [ng/mL]	
		b(SE)	p	b(SE)	p	b(SE)	p
BMI	0	0.02 (0.019)	0.300	64 (666.0)	0.310	0.009 (0.021)	0.680
	I	0.014 (0.017)	0.407	714.9 (669.72)	0.289	0.009 (0.021)	0.661
	II	0.015 (0.019)	0.415	735.11 (675.86)	0.280	0.003 (0.021)	0.892
	III	0.018 (0.019)	0.335	711.0 (688.23)	0.291	0.008 (0.021)	0.719
WHR	0	-1.43 (1.081)	0.190	60029.0 (37916.0)	0.120	-0.999 (1.218)	0.410
	I	1.009 (1.174)	0.393	63250.68 (45055.06)	0.164	-1.736 (1.439)	0.234
	II	-1.207 (1.081)	0.268	58633.78 (38483.66)	0.132	-0.696 (1.209)	0.567
	III	-1.358 (1.078)	0.211	58559.73 (38063.40)	0.128	-0.950 (1.222)	0.439
WHtR	0	1.989 (1.23)	0.110	30831.0 (43917.0)	0.480	0.797 (1.396)	0.570
	I	1.523 (1.136)	0.184	34488.18 (44262.36)	0.438	0.862 (1.412)	0.543
	II	1.623 (1.250)	0.198	36756.69 (45068.24)	0.417	0.234 (1.404)	0.863
	III	1.879 (1.228)	0.130	33562.45 (44083.30)	0.449	0.719 (1.403)	0.610
FM [%]	0	0.043 (0.011)	< 0.001	148.0 (426.0)	0.730	0.013 (0.013)	0.350
	I	0.022 (0.015)	0.153	720.46 (597.12)	0.231	0.032 (0.019)	0.092
	II	0.040 (0.011)	< 0.001	195.5 (436.75)	0.656	0.0008 (0.013)	0.570
	III	0.041 (0.011)	< 0.001	195.97 (430.33)	0.650	0.011 (0.014)	0.407
VAI	0	-0.055 (0.05)	0.280	6176.0 (1647.0)	< 0.001	-0.019 (0.057)	0.740
	I	-0.066 (0.046)	0.153	6277.41 (1650.05)	< 0.001	-0.018 (0.057)	0.745
	II	-0.056 (0.050)	0.264	6192.41 (1654.50)	< 0.001	-0.021 (0.056)	0.706
	III	-0.034 (0.054)	0.537	6506.22 (1779.96)	< 0.001	-0.002 (0.061)	0.974
BAI	0	0.043 (0.014)	< 0.001	-255.0 (510.0)	0.620	0.018 (0.016)	0.260
	I	0.018 (0.016)	0.260	-67.94 (624.32)	0.914	0.032 (0.019)	0.102
	II	0.039 (0.014)	0.008	-199.5 (538.29)	0.712	0.009 (0.017)	0.567
	III	0.041 (0.014)	0.004	-209.32 (514.55)	0.685	0.017 (0.016)	0.210

Model 0: simple linear regression; Model I: after adjustment for gender; Model II: after adjustment age; Model III: after adjustment for smoking status; b: coefficient form liner regression; SE: standard error.

BMI: body mass index; WHR: waist to hip ratio; WHtR: waist-to-height ratio; FM [%]: body fat percentage; VAI: visceral adiposity index; BAI: body adiposity index; PerOx (TOS/TOC): total oxidative status/capacity; ImAnOx (TAS/TAC): total antioxidative status/capacity; oxLDL: oxidized low-density lipoprotein.

Table S2. Relationship between oxidative/antioxidative status and anthropometric measures in control group.

Variables	Model	Log PerOx (TOS/TAC) [μmol/L]		Square ImAnOx (TAS/TAC) [μmol/L]		Log oxLDL [ng/mL]	
		b(SE)	p	b(SE)	p	b(SE)	p
BMI	0	-0.02 (0.025)	0.410	40.0 (1212.0)	0.970	-0.047 (0.025)	0.060
	I	0.010 (0.022)	0.649	735.4 (1226.18)	0.550	-0.043 (0.026)	0.097
	II	-0.023 (0.025)	0.364	281.0 (1207.22)	0.816	-0.047 (0.025)	0.066
	III	-0.022 (0.025)	0.382	-60.9 (1210.39)	0.960	-0.047 (0.025)	0.063
WHR	0	-2.627 (1.015)	0.010	25426.0 (51798.0)	0.620	-2.373 (1.109)	0.040
	I	0.682 (1.153)	0.556	149410.3 (62602.48)	0.019	-2.548 (1.388)	0.071
	II	-3.203 (1.060)	0.003	58629.4 (53765.78)	0.279	-2.606 (1.189)	0.032
	III	-2.619 (1.017)	0.012	26115.1 (51603.93)	0.614	-2.337 (1.227)	0.041
WHtR	0	-1.069 (1.463)	0.470	75144.0 (71489.0)	0.300	-2.436 (1.508)	0.110
	I	0.340 (1.283)	0.792	109285.4 (70845.72)	0.127	-2.219 (1.534)	0.152
	II	-1.327 (1.494)	0.383	-1510.8 (789.92)	0.060	-2.474 (1.552)	0.115
	III	-1.188 (1.470)	0.422	67786.8 (71593.44)	0.347	-2.454 (1.515)	0.110
FM [%]	0	0.042 (0.013)	< 0.001	1431.0 (679.0)	0.04	0.004 (0.014)	0.760
	I	0.0005 (0.016)	0.972	881.1 (881.35)	0.321	-0.004 (0.019)	0.618
	II	0.045 (0.013)	0.001	1295.21 (681.61)	0.061	0.004 (0.015)	0.783
	III	0.0418 (0.0138)	0.003	1292.9 (704.02)	0.070	0.003 (0.015)	0.862
VAI	0	-0.184 (0.06)	< 0.001	-189.0 (3144.0)	0.950	-0.04 (0.065)	0.540
	I	-0.126 (0.54)	0.022	1361.2 (3158.71)	0.668	-0.028 (0.066)	0.680
	II	-0.184 (0.060)	0.003	-158.7 (3109.71)	0.959	-0.040 (0.066)	0.548
	III	-0.183 (0.060)	0.003	-154.2 (3132.82)	0.961	-0.038 (0.066)	0.560
BAI	0	0.058 (0.02)	0.01	137.0 (1024.0)	0.180	0.007 (0.022)	0.750
	I	0.0001 (0.022)	0.996	192.0 (1257.17)	0.879	-0.010 (0.027)	0.713
	II	0.060 (0.020)	0.004	1203.0 (1021.22)	0.242	0.006 (0.022)	0.772
	III	0.056 (0.020)	0.007	1181.7 (1039.78)	0.259	0.005 (0.022)	0.831

Model 0: simple linear regression; Model I: after adjustment for gender; Model II: after adjustment age; Model III: after adjustment for smoking status; b: coefficient form liner regression; SE: standard error.

BMI: body mass index; WHR: waist to hip ratio; WHtR: waist-to-height ratio; FM [%]: body fat percentage; VAI: visceral adiposity index; BAI: body adiposity index; PerOx (TOS/TOC): total oxidative status/capacity; ImAnOx (TAS/TAC): total antioxidative status/capacity; oxLDL: oxidized low-density lipoprotein.

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26 **Table S3.** Relationship between oxidative/antioxidative status and anthropometric measures in all participants.

Variables	Model	Log PerOx (TOS/TAC) [μmol/L]		Square ImAnOx (TAS/TAC) [μmol/L]		Log oxLDL [ng/mL]	
		b(SE)	p	b(SE)	p	b(SE)	p
BMI	0	0.003 (0.015)	0.850	561.0 (632.0)	0.380	-0.019 (0.016)	0.230
	I	0.011 (0.013)	0.386	646.75 (633.42)	0.309	-0.018 (0.016)	0.252
	II	-0.001 (0.015)	0.920	752.2 (642.87)	0.244	-0.021 (0.016)	0.199
	III	0.003 (0.014)	0.852	561.20 (634.03)	0.377	-0.019 (0.016)	0.241
WHR	0	-1.769 (0.669)	0.01	47355.0 (29309.0)	0.110	-1.969 (0.742)	0.01
	I	0.740 (0.724)	0.308	99864.4 (34768.77)	0.005	-2.426 (0.882)	0.007
	II	-2.174 (0.685)	0.002	61337.32 (30174.96)	0.044	-2.203 (0.770)	0.005
	III	-1.656 (0.673)	0.015	48195.28 (296499.25)	0.106	-1.841 (0.753)	0.016
WHtR	0	0.443 (0.874)	0.610	59313.0 (37497.0)	0.120	-1.167 (0.954)	0.220
	I	0.845 (0.771)	0.275	63389.59 (37496.78)	0.093	-0.138 (0.957)	0.236
	II	0.069 (0.916)	0.940	81717.4 (39115.65)	0.038	-1.405 (1.005)	0.164
	III	0.481 (0.870)	0.581	59362.16 (37630.96)	0.117	-1.103 (0.952)	0.248
FM [%]	0	0.042 (0.009)	< 0.001	762.0 (392.0)	0.05	0.007 (0.01)	0.460
	I	0.011 (0.011)	0.320	764.13 (520.57)	0.144	0.006 (0.013)	0.664
	II	0.041 (0.008)	< 0.001	785.61 (391.16)	0.046	0.007 (0.010)	0.470
	III	0.004 (0.009)	< 0.001	778.39 (397.22)	0.052	0.005 (0.010)	0.595
VAI	0	-0.103 (0.038)	0.01	3754.0 (1639.0)	0.02	-0.045 (0.041)	0.280
	I	-0.084 (0.033)	0.013	3993.86 (1639.74)	0.016	-0.043 (0.041)	0.039
	II	-0.110 (0.037)	0.003	3999.9 (1640.06)	0.016	-0.047 (0.042)	0.262
	III	-0.094 (0.039)	0.018	4081.83 (1710.957)	0.018	-0.030 (0.043)	0.489
BAI	0	0.048 (0.011)	< 0.001	356.0 (517.0)	0.490	0.013 (0.013)	0.320
	I	0.011 (0.013)	0.389	-12.94 (624.18)	0.983	0.012 (0.016)	0.433
	II	0.046 (0.011)	< 0.001	437.4 (519.48)	0.401	0.013 (0.013)	0.337
	III	0.046 (0.011)	< 0.001	359.78 (522.24)	0.492	0.011 (0.013)	0.403

27 Model 0: simple linear regression; Model I: after adjustment for gender; Model II: after adjustment age; Model III: after
28 adjustment for smoking status; b: coefficient form liner regression; SE: standard error.
29 BMI: body mass index; WHR: waist to hip ratio; WHtR: waist-to-height ratio; FM [%]: body fat percentage; VAI: visceral
30 adiposity index; BAI: body adiposity index; PerOx (TOS/TOC): total oxidative status/capacity; ImAnOx (TAS/TAC): total
31 antioxidative status/capacity; oxLDL: oxidized low-density lipoprotein.