

Supplementary Table 1. Demographics and medical comorbidities for BMI $\geq$ 30 versus BMI<30 cohorts before and after PSM

	Before PSM, Mean $\pm$ SD or No. (%)				After PSM, Mean $\pm$ SD or No. (%)			
	BMI $\geq$ 30 (n=4,210)	BMI<30 (n=3,835)	P Value	SMD	BMI $\geq$ 30 (n=2,779)	BMI<30 (n=2,779)	P Value	SMD
Age	64.3 $\pm$ 9.1	69.5 $\pm$ 10.0	<0.001	0.536	66.7 $\pm$ 8.9	66.9 $\pm$ 9.3	0.471	0.019
Race								
White	3,061 (76.1)	2,953 (80.9)	<0.001	0.117	2,230 (80.2)	2,230 (80.2)	>0.999	<0.001
Black or African American	547 (13.6)	274 (7.5)	<0.001	0.199	269 (9.7)	261 (9.4)	0.715	0.010
Asian	30 (0.7)	108 (3.0)	<0.001	0.165	30 (1.1)	25 (0.9)	0.498	0.018
Native Hawaiian or Other Pacific Islander	10 (0.2)	10 (0.3)	0.828	0.005	10 (0.4)	0 (0.0)	0.002	0.085
American Indian or Alaska Native	14 (0.3)	10 (0.3)	0.561	0.013	10 (0.4)	10 (0.4)	>0.999	<0.001
Other Race	53 (1.3)	63 (1.7)	0.144	0.033	35 (1.3)	37 (1.3)	0.812	0.006
Unknown Race	315 (7.8)	243 (6.7)	0.048	0.045	210 (7.6)	219 (7.9)	0.651	0.012
Sex								
Male	1,386 (34.5)	1,418 (38.8)	<0.001	0.091	1,067 (38.4)	1,043 (37.5)	0.507	0.018
Female	2,635 (65.5)	2,231 (61.1)	<0.001	0.092	1,712 (61.6)	1,736 (62.5)	0.507	0.018
Unknown	0 (0.0)	10 (0.3)	0.001	0.074	0 (0.0)	0 (0.0)	>0.999	<0.001
Medical Comorbidities								
Mood (Affective) Disorders	323 (8.0)	231 (6.3)	0.004	0.066	179 (6.4)	199 (7.2)	0.287	0.029
Anxiety Disorders	283 (7.0)	246 (6.7)	0.607	0.012	162 (5.8)	184 (6.6)	0.222	0.033
Chronic Pain Syndrome	14 (0.3)	13 (0.4)	0.953	0.001	10 (0.4)	10 (0.4)	>0.999	<0.001
Chronic Pain	401 (10.0)	259 (7.1)	<0.001	0.103	212 (7.6)	232 (8.3)	0.322	0.027
Diabetes Mellitus	642 (16.0)	462 (12.7)	<0.001	0.095	367 (13.2)	385 (13.9)	0.480	0.019
Hyperlipidemia (Unspecified)	856 (21.3)	861 (23.6)	0.016	0.055	588 (21.2)	601 (21.6)	0.671	0.011
Pure Hypercholesterolemia	415 (10.3)	464 (12.7)	0.001	0.075	310 (11.2)	310 (11.2)	>0.999	<0.001
Essential (Primary) Hypertension	1,483 (36.9)	1,366 (37.4)	0.623	0.011	994 (35.8)	1,008 (36.3)	0.696	0.010
CKD	96 (2.4)	126 (3.5)	0.005	0.063	76 (2.7)	71 (2.6)	0.676	0.011
Nicotine Dependence	97 (2.4)	78 (2.1)	0.420	0.018	57 (2.1)	58 (2.1)	0.925	0.003
Coronary Artery Disease	292 (7.3)	314 (8.6)	0.030	0.050	213 (7.7)	221 (8.0)	0.689	0.011

BMI = Body Mass Index; CKD = Chronic Kidney Disease; PSM = Propensity Score Matching; SD = Standard Deviation; SMD = Standardized Mean Difference

Supplementary Table 2. Demographics and medical comorbidities for BMI $\geq$ 40 versus BMI<40 cohorts before and after PSM

	Before PSM, Mean $\pm$ SD or No. (%)				After PSM, Mean $\pm$ SD or No. (%)			
	BMI $\geq$ 40 (n=799)	BMI<40 (n=6,566)	P Value	SMD	BMI $\geq$ 40 (n=750)	BMI<40 (n=750)	P Value	SMD
Age	60.5 $\pm$ 8.3	67.4 $\pm$ 9.8	<0.001	0.760	60.5 $\pm$ 8.2	60.4 $\pm$ 8.6	0.756	0.016
Race								
White	568 (75.6)	4,953 (79.3)	0.018	0.089	568 (75.7)	567 (75.6)	0.952	0.003
Black or African American	120 (16.0)	540 (8.7)	<0.001	0.224	119 (15.9)	120 (16.0)	0.944	0.004
Asian	10 (1.3)	132 (2.1)	0.151	0.060	10 (1.3)	10 (1.3)	>0.999	<0.001
Native Hawaiian or Other Pacific Islander	0 (0.0)	10 (0.2)	0.272	0.057	0 (0.0)	0 (0.0)	>0.999	<0.001
American Indian or Alaska Native	10 (1.3)	15 (0.2)	<0.001	0.124	10 (1.3)	10 (1.3)	>0.999	<0.001
Other Race	10 (1.3)	105 (1.7)	0.475	0.029	10 (1.3)	10 (1.3)	>0.999	<0.001
Unknown Race	51 (6.8)	494 (7.9)	0.278	0.043	51 (6.8)	54 (7.2)	0.761	0.016
Sex								
Male	180 (24.0)	2,384 (38.2)	<0.001	0.311	180 (24.0)	186 (24.8)	0.718	0.019
Female	571 (76.0)	3,857 (61.8)	<0.001	0.311	570 (76.0)	564 (75.2)	0.718	0.019
Unknown	0 (0.0)	10 (0.2)	0.272	0.057	0 (0.0)	0 (0.0)	>0.999	<0.001
Medical Comorbidities								
Mood (Affective) Disorders	82 (10.9)	441 (7.1)	<0.001	0.135	82 (10.9)	61 (8.1)	0.065	0.095
Anxiety Disorders	62 (8.3)	438 (7.0)	0.213	0.047	62 (8.3)	46 (6.1)	0.110	0.083
Chronic Pain Syndrome	10 (1.3)	17 (0.3)	<0.001	0.119	10 (1.3)	10 (1.3)	>0.999	<0.001
Chronic Pain	52 (6.9)	440 (7.0)	0.899	0.005	52 (6.9)	44 (5.9)	0.399	0.044
Diabetes Mellitus	134 (17.8)	901 (14.4)	0.013	0.093	134 (17.9)	111 (14.8)	0.108	0.083
Hyperlipidemia (Unspecified)	140 (18.6)	1,477 (23.7)	0.002	0.123	140 (18.7)	111 (14.8)	0.045	0.104
Pure Hypercholesterolemia	65 (8.7)	776 (12.4)	0.003	0.123	65 (8.7)	50 (6.7)	0.145	0.075
Essential (Primary) Hypertension	277 (36.9)	2,413 (38.7)	0.345	0.037	277 (36.9)	246 (32.8)	0.093	0.087
CKD	16 (2.1)	187 (3.0)	0.182	0.055	16 (2.1)	10 (1.3)	0.235	0.061
Nicotine Dependence	16 (2.1)	146 (2.3)	0.720	0.014	16 (2.1)	11 (1.5)	0.332	0.050
Coronary Artery Disease	45 (6.0)	530 (8.5)	0.019	0.097	45 (6.0)	37 (4.9)	0.364	0.047

BMI = Body Mass Index; CKD = Chronic Kidney Disease; PSM = Propensity Score Matching; SD = Standard Deviation; SMD = Standardized Mean Difference

Supplementary Table 3. Demographics and medical comorbidities for BMI $\geq$ 40 versus BMI 30-34.9 cohorts before and after PSM

	Before PSM, Mean $\pm$ SD or No. (%)				After PSM, Mean $\pm$ SD or No. (%)			
	BMI $\geq$ 40 (n=883)	BMI 30-34.9 (n=2,119)	P Value	SMD	BMI $\geq$ 40 (n=792)	BMI 30-34.9 (n=792)	P Value	SMD
Age	60.5 $\pm$ 8.4	66.1 $\pm$ 9.0	<0.001	0.641	61.1 $\pm$ 8.1	60.9 $\pm$ 8.2	0.670	0.021
Race								
White	612 (73.3)	1,583 (78.0)	0.007	0.109	586 (74.0)	591 (74.6)	0.774	0.014
Black or African American	156 (18.7)	219 (10.8)	<0.001	0.224	140 (17.7)	131 (16.5)	0.548	0.030
Asian	10 (1.2)	24 (1.2)	0.973	0.001	10 (1.3)	0 (0.0)	0.002	0.160
Native Hawaiian or Other Pacific Islander	0 (0.0)	10 (0.5)	0.042	0.100	0 (0.0)	0 (0.0)	>0.999	<0.001
American Indian or Alaska Native	10 (1.2)	10 (0.5)	0.039	0.077	10 (1.3)	10 (1.3)	>0.999	<0.001
Other Race	10 (1.2)	29 (1.4)	0.628	0.020	10 (1.3)	10 (1.3)	>0.999	<0.001
Unknown Race	54 (6.5)	169 (8.3)	0.092	0.071	53 (6.7)	58 (7.3)	0.623	0.025
Sex								
Male	200 (24.0)	811 (40.0)	<0.001	0.348	199 (25.1)	210 (26.5)	0.528	0.032
Female	635 (76.0)	1,219 (60.0)	<0.001	0.348	593 (74.9)	582 (73.5)	0.528	0.032
Unknown	0 (0.0)	0 (0.0)	>0.999	<0.001	0 (0.0)	0 (0.0)	>0.999	<0.001
Medical Comorbidities								
Mood (Affective) Disorders	84 (10.1)	142 (7.0)	0.006	0.110	75 (9.5)	68 (8.6)	0.539	0.031
Anxiety Disorders	66 (7.9)	129 (6.4)	0.135	0.060	61 (7.7)	52 (6.6)	0.380	0.044
Chronic Pain Syndrome	10 (1.2)	10 (0.5)	0.039	0.077	10 (1.3)	10 (1.3)	>0.999	<0.001
Chronic Pain	79 (9.5)	198 (9.8)	0.810	0.010	73 (9.2)	67 (8.5)	0.595	0.027
Diabetes Mellitus	140 (16.8)	305 (15.0)	0.242	0.048	132 (16.7)	122 (15.4)	0.493	0.034
Hyperlipidemia (Unspecified)	146 (17.5)	461 (22.7)	0.002	0.131	142 (17.9)	122 (15.4)	0.178	0.068
Pure Hypercholesterolemia	66 (7.9)	233 (11.5)	0.004	0.121	65 (8.2)	51 (6.4)	0.177	0.068
Essential (Primary) Hypertension	293 (35.1)	758 (37.3)	0.256	0.047	277 (35.0)	247 (31.2)	0.109	0.081
CKD	17 (2.0)	50 (2.5)	0.492	0.029	17 (2.1)	21 (2.7)	0.511	0.033
Nicotine Dependence	18 (2.2)	50 (2.5)	0.623	0.020	17 (2.1)	17 (2.1)	>0.999	<0.001
Coronary Artery Disease	45 (5.4)	155 (7.6)	0.032	0.091	43 (5.4)	42 (5.3)	0.911	0.006

BMI = Body Mass Index; CKD = Chronic Kidney Disease; PSM = Propensity Score Matching; SD = Standard Deviation; SMD = Standardized Mean Difference

Supplementary Table 4. Demographics and medical comorbidities for BMI $\geq$ 40 versus BMI 35-39.9 cohorts before and after PSM

	Before PSM, Mean $\pm$ SD or No. (%)				After PSM, Mean $\pm$ SD or No. (%)			
	BMI $\geq$ 40 (n=883)	BMI 35-39.9 (n=1,190)	P Value	SMD	BMI $\geq$ 40 (n=734)	BMI 35-39.9 (n=734)	P Value	SMD
Age	60.5 $\pm$ 8.4	64.0 $\pm$ 8.7	<0.001	0.412	61.4 $\pm$ 8.1	61.3 $\pm$ 7.9	0.847	0.010
Race								
White	612 (73.3)	852 (74.9)	0.410	0.037	547 (74.5)	543 (74.0)	0.811	0.012
Black or African American	156 (18.7)	170 (15.0)	0.028	0.100	127 (17.3)	127 (17.3)	>0.999	<0.001
Asian	10 (1.2)	10 (0.9)	0.486	0.031	10 (1.4)	0 (0.0)	0.002	0.166
Native Hawaiian or Other Pacific Islander	0 (0.0)	0 (0.0)	>0.999	<0.001	0 (0.0)	0 (0.0)	>0.999	<0.001
American Indian or Alaska Native	10 (1.2)	10 (0.9)	0.486	0.031	10 (1.4)	10 (1.4)	>0.999	<0.001
Other Race	10 (1.2)	15 (1.3)	0.811	0.011	10 (1.4)	10 (1.4)	>0.999	<0.001
Unknown Race	54 (6.5)	90 (7.9)	0.222	0.056	48 (6.5)	49 (6.7)	0.916	0.005
Sex								
Male	200 (24.0)	369 (32.5)	<0.001	0.190	184 (25.1)	194 (26.4)	0.551	0.031
Female	635 (76.0)	768 (67.5)	<0.001	0.190	550 (74.9)	540 (73.6)	0.551	0.031
Unknown	0 (0.0)	0 (0.0)	>0.999	<0.001	0 (0.0)	0 (0.0)	>0.999	<0.001
Medical Comorbidities								
Mood (Affective) Disorders	84 (10.1)	92 (8.1)	0.130	0.069	73 (9.9)	65 (8.9)	0.474	0.037
Anxiety Disorders	66 (7.9)	86 (7.6)	0.779	0.013	59 (8.0)	50 (6.8)	0.370	0.047
Chronic Pain Syndrome	10 (1.2)	10 (0.9)	0.486	0.031	10 (1.4)	10 (1.4)	>0.999	<0.001
Chronic Pain	79 (9.5)	119 (10.5)	0.463	0.034	72 (9.8)	60 (8.2)	0.274	0.057
Diabetes Mellitus	140 (16.8)	195 (17.2)	0.823	0.010	122 (16.6)	120 (16.3)	0.888	0.007
Hyperlipidemia (Unspecified)	146 (17.5)	245 (21.5)	0.025	0.103	136 (18.5)	131 (17.8)	0.735	0.018
Pure Hypercholesterolemia	66 (7.9)	114 (10.0)	0.106	0.074	61 (8.3)	56 (7.6)	0.630	0.025
Essential (Primary) Hypertension	293 (35.1)	425 (37.4)	0.297	0.048	257 (35.0)	245 (33.4)	0.509	0.034
CKD	17 (2.0)	28 (2.5)	0.531	0.029	15 (2.0)	11 (1.5)	0.429	0.041
Nicotine Dependence	18 (2.2)	29 (2.6)	0.570	0.026	14 (1.9)	13 (1.8)	0.846	0.010
Coronary Artery Disease	45 (5.4)	91 (8.0)	0.024	0.105	44 (6.0)	42 (5.7)	0.824	0.012

BMI = Body Mass Index; CKD = Chronic Kidney Disease; PSM = Propensity Score Matching; SD = Standard Deviation; SMD = Standardized Mean Difference

Supplementary Table 5. Demographics and medical comorbidities for BMI 35-39.9 versus BMI 30-34.9 cohorts before and after PSM

	Before PSM, Mean $\pm$ SD or No. (%)				After PSM, Mean $\pm$ SD or No. (%)			
	BMI 35-39.9 (n=1,190)	BMI 30-34.9 (n=2,119)	P Value	SMD	BMI 35-39.9 (n=1,126)	BMI 30-34.9 (n=1,126)	P Value	SMD
Age	64.0 $\pm$ 8.7	66.1 $\pm$ 9.0	<0.001	0.233	64.1 $\pm$ 8.6	64.0 $\pm$ 8.7	0.757	0.013
Race								
White	852 (74.9)	1,583 (78.0)	0.051	0.072	849 (75.4)	846 (75.1)	0.884	0.006
Black or African American	170 (15.0)	219 (10.8)	0.001	0.125	164 (14.6)	165 (14.7)	0.952	0.003
Asian	10 (0.9)	24 (1.2)	0.428	0.030	10 (0.9)	10 (0.9)	>0.999	<0.001
Native Hawaiian or Other Pacific Islander	0 (0.0)	10 (0.5)	0.18	0.100	0 (0.0)	0 (0.0)	>0.999	<0.001
American Indian or Alaska Native	10 (0.9)	10 (0.5)	0.187	0.047	10 (0.9)	10 (0.9)	>0.999	<0.001
Other Race	15 (1.3)	29 (1.4)	0.801	0.009	15 (1.3)	17 (1.5)	0.722	0.015
Unknown Race	90 (7.9)	169 (8.3)	0.687	0.015	89 (7.9)	90 (8.0)	0.938	0.003
Sex								
Male	369 (32.5)	811 (40.0)	<0.001	0.156	368 (32.7)	378 (33.6)	0.654	0.019
Female	768 (67.5)	1,219 (60.0)	<0.001	0.156	758 (67.3)	748 (66.4)	0.654	0.019
Unknown	0 (0.0)	0 (0.0)	>0.999	<0.001	0 (0.0)	0 (0.0)	>0.999	<0.001
Medical Comorbidities								
Mood (Affective) Disorders	92 (8.1)	142 (7.0)	0.258	0.042	90 (8.0)	87 (7.7)	0.814	0.010
Anxiety Disorders	86 (7.6)	129 (6.4)	0.194	0.048	82 (7.3)	81 (7.2)	0.935	0.003
Chronic Pain Syndrome	10 (0.9)	10 (0.5)	0.187	0.047	10 (0.9)	10 (0.9)	>0.999	<0.001
Chronic Pain	119 (10.5)	198 (9.8)	0.522	0.024	117 (10.4)	112 (9.9)	0.727	0.015
Diabetes Mellitus	195 (17.2)	305 (15.0)	0.116	0.058	191 (17.0)	193 (17.1)	0.911	0.005
Hyperlipidemia (Unspecified)	245 (21.5)	461 (22.7)	0.451	0.028	242 (21.5)	229 (20.3)	0.501	0.028
Pure Hypercholesterolemia	114 (10.0)	233 (11.5)	0.210	0.047	114 (10.1)	89 (7.9)	0.066	0.078
Essential (Primary) Hypertension	425 (37.4)	758 (37.3)	0.983	0.001	418 (37.1)	404 (35.9)	0.540	0.026
CKD	28 (2.5)	50 (2.5)	0.999	<0.001	28 (2.5)	29 (2.6)	0.893	0.006
Nicotine Dependence	29 (2.6)	50 (2.5)	0.880	0.006	29 (2.6)	24 (2.1)	0.487	0.029
Coronary Artery Disease	91 (8.0)	155 (7.6)	0.710	0.014	89 (7.9)	81 (7.2)	0.523	0.027

BMI = Body Mass Index; *CKD* = Chronic Kidney Disease; *PSM* = Propensity Score Matching; *SD* = Standard Deviation; *SMD* = Standardized Mean Difference