Appendix Table A. Female and male model fit indices and class prevalence for exploratory latent class analysis in 2015 sample

Number of Classes	Log-likelihood	Adjusted BIC	AIC	Entropy	Vuong-Lo-Mendell-Rubin p-value	Class Prevalences (%)							
						1	2	3	4	5	6	7	8
Female 2015 Sample (N=5055)													
1	-27107	54279	54239	1.00	-	100.0							
2	-24509	49152	49068	0.77	0.00	28.1	71.9						
3	-23921	48045	47918	0.80	0.00	68.6	10.6	20.7					
4	-23563	47399	47228	0.76	0.00	23.5	12.0	58.0	6.5				
5	-23329	47000	46786	0.77	0.00	57.8	12.7	12.0	10.0	7.5			
6	-23209	46830	46572	0.76	0.00	56.0	13.5	4.2	9.2	11.2	5.9		
7	-23117	46715	46413	0.79	0.00	47.5	9.8	14.2	9.3	4.2	9.1	5.9	
8	-23050	46651	46306	0.78	0.08	10.0	12.8	7.2	3.8	8.3	3.3	50.4	4.3
Male 2015 Sample (N=2420)													
1	-10726	21507	21476	1.00	-	100.0							
2	-9915	19946	19881	0.76	0.00	21.3	78.7						
3	-9711	19597	19498	0.82	0.00	17.8	6.8	75.5					
4	-9561	19357	19224	0.84	0.00	73.5	11.5	7.6	7.4				

5	-9469	19232	19065	0.81	0.00	65.6	8.5	6.2	8.6	11.1	
6	-9429	19214	19013	0.82	0.15	64.9	8.5	11.1	8.5	3.9	3.2

Appendix Figure A.1. Model-estimate, Class Specific Item Probabilities Profile Plot for the Seven-Class Model in the 2015 Women (% of sample)

Appendix Figure A.2. Model-estimate, Class Specific Item Probabilities Profile Plot for the Seven-Class Model in the 2015 Men (% of sample)

Appendix Table B. Crude and Adjusted Predicted Probabilities of Obesity and Mean BMI by Latent Class in the 2018 Sample

	Crude		Adjusted[#+]		Crude		Adjusted[#+]	
Female	Prob	95 % CI	Prob	95 % CI	BMI (kg/m2)	95 % CI	BMI (kg/m2)	95 % CI
1-Low Adversities	0.10	0.09-0.12	0.11[a]	0.09-0.12	24.2	24.0-24.4	24.4[a]	24.2-24.7
2-Adult Adversities and Household Mental Illness	0.11	0.05-0.17	0.06[a,b]	0.00-0.11	25.0	24.2-25.8	23.9[a,b]	22.6-25.1
3-Household Mental Illness	0.22	0.17-0.27	0.19[c]	0.14-0.24	25.9	25.3-26.5	25.5[c]	24.7-26.2
4- Childhood Emotional Abuse	0.18	0.14-0.22	0.17[c,d]	0.13-0.21	26.2	25.6-26.8	26.1[c,d]	25.3-27.0
5-Childhood Household Dysfunction and Childhood Emotional Abuse	0.20	0.13-0.26	0.15[a,b,c,d,e]	0.08-0.21	26.3	25.3-27.3	25.4[a,b,c,d,e]	24.3-26.6
6-High Adult Adversities & Low Childhood Adversities	0.15	0.11-0.19	0.17[c,d,e,f]	0.12-0.21	24.2	23.7-24.7	25.1[a,b,c,d,e,f]	24.4-25.8
7-High Lifetime Adversities	0.25	0.18-0.32	0.23[c,d,e,f]	0.16-0.30	27.4	26.1-28.7	27.3[d]	25.9-28.7
Male	Crude		Adjusted[#]		Crude		Adjusted[#]	
1-Low Adversities	0.12	0.10-0.13	0.12[g]	0.09-0.14	24.6	24.4-24.9	24.6[g]	24.3-25.0

	Crude Prob	95 % CI	Adjusted Prob	95 % CI	Crude BMI (kg/m2)	95 % CI	Adjusted BMI (kg/m2)	95 % CI
2-Childhood Physical & Emotional Abuse	0.15	0.09-0.21	0.14 [g,h]	0.07-0.20	24.7	24.1-25.4	24.8 [g,h]	23.8-25.7
3-Childhood Household Dysfunction & Childhood Emotional Abuse	0.21	0.13-0.28	0.14 [g,h,i]	0.07-0.22	25.5	24.6-26.4	24.7 [g,h,i]	23.6-25.7
4-Intimate Partner Emotional Abuse	0.12	0.05-0.18	0.12 [g,h,i,j]	0.05-0.18	24.9	24.1-25.7	25.2 [g,h,i,j]	24.2-26.3
5- Childhood Household Alcohol Abuse	0.22	0.16-0.28	0.19 [h,i,j]	0.12-0.25	26.1	25.4-26.9	26.0 [h,i,j]	25.1-26.9

[#] race/ethnicity (white vs. POC), parent education & 2/4 year school

[a,b,c,d,e,f,g,h,i,j,] Values with unlike superscript letters were pairwise comparisons statistically significantly different chi-square p-value. (p-value <0.05)

+ statistically significant overall class differences Wald-test p-value <0.05

Appendix Table C. Crude and Adjusted Predicted Probabilities of Obesity and Mean BMI by Latent Class in the 2015 Sample

	Crude		Adjusted[#][+]		Crude		Adjusted[#][+]	
Female	Prob	95 % CI	Prob	95 % CI	BMI (kg/m2)	95 % CI	BMI (kg/m2)	95 % CI
1-Low Adversities	0.10	0.08-0.11	0.10 [a]	0.08-0.11	23.9	23.7-24.1	24.0 [a]	23.7-24.2
2- Lifetime Sexual Assault	0.12	0.09-0.16	0.12 [a,b]	0.09-0.16	24.1	23.6-24.5	24.3 [a,b]	23.7-24.9
3-Household Mental Illness	0.15	0.12-0.19	0.15 [b,c]	0.11-0.19	25.2	24.8-25.7	25.1 [b,c]	24.5-25.6
4- Childhood Emotional Abuse	0.15	0.11-0.19	0.14 [a,b,c,d]	0.09-0.19	25.1	24.6-25.7	25.1 [b,c,d]	24.3-25.9
5-Household Dysfunction and Child Emotional Abuse	0.26	0.19-0.34	0.24 [e]	0.16-0.32	27.1	26.0-28.2	27.0 [e]	25.8-28.2
6-High Adult Adversities & Low Childhood Adversities	0.13	0.09-0.16	0.12 [a,b,c,d,f]	0.08-0.16	24.5	24.0-25.0	24.4 [a,b,c,d,f]	23.7-25.0
7-High Adversities	0.24	0.18-0.29	0.20 [c,d,e]	0.14-0.25	26.2	25.4-	25.5 [c,d,e,f]	24.5-

Male	Crude		Adjusted#		Crude		Adjusted#	
					27.1		26.6	
1-Low Adversities	0.11	0.10-0.13	0.12 g	0.10-0.14	24.5	24.2-24.7	24.6 g	24.3-24.9
2-Childhood Emotional Abuse	0.13	0.07-0.19	0.10 g,h	0.04-0.15	24.3	23.6-25.0	23.9 g,h	23.1-24.8
3-Household Dysfunction & Child Emotional Abuse	0.19	0.12-0.26	0.18 g,h,i	0.11-0.26	25.6	24.6-26.6	25.6 g,i	24.6-26.7
4-Intimate Partner Emotional Abuse	0.11	0.06-0.16	0.09 g,h,i,j	0.04-0.14	24.4	23.7-25.1	24.2 g,h,j	23.4-24.9
5-Household Mental Illness	0.17	0.11-0.23	0.15 g,h,i,j	0.09-0.20	25.7	25.0-26.4	25.5 g,h,i,j	24.4-26.5

#race/ethnicity (white vs. POC), parent education & 2/4 year school

[a,b,c,d,e,f,g,h,i,j] Values with unlike superscript letters were pairwise comparisons statistically significantly different chi-square p-value. (P value <0.05)

+ statistically significant overall class differences Wald-test p-value <0.05