Supplemental material

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Sex Transm Infect

APPENDIX

Table A. Sociodemographic characteristics, Adverse Childhood Experiences (ACEs), and co-morbidities of Black women in Baltimore, Maryland between 2015 and 2018 (n=230)

CONTINUOUS VARIABLES	TOTAL	
	Mean	Standard Deviation
Age	26.25	(6.32)
Number of children	1.03	(1.31)
ACE SCORE	2.21	(2.44)
Syndemic Score	3.38	(1.18)
AUDIT Score	4.55	(5.83)
Drug Misuse Score	0.44	(0.76)
CES-D Score	10.26	(6.37)
PTSD Score	1.63	(1.13)
STIs (# in past-year)	0.79	(1.07)
CATEGORICAL VARIABLES	n	%
Sociodemographics		
Age		
18-24	101	44
25-34	103	45
35-44	26	11
At least a high school education	195	85
Employed	141	61
Individual yearly income		
<$10,000	135	59
$10,000 - 29,999	74	32
≥$30,000	21	9
Number of children		
0	115	50
1 to 2	83	36
3 or more	32	14
Relationship status		
Single	157	68
In relationship	66	29
Separated/Divorced/Widowed/Other	7	3
Socio-structural		
Housing instability	13	6
Sexual orientation		
Heterosexual	196	85
Bisexual/Gay	34	15
ACEs (Before 18 years of age)		
0	75	33
1	48	21

2	30	13
3 to 9	77	33
Missing	62	-
Emotional abuse	52	23
Physical abuse	24	11
Sexual abuse	37	17
Emotional neglect	71	31
Physical neglect	43	19
Witness maternal abuse	33	14
Household substance misuse	61	27
Household mental health problems	49	21
Parental separation or divorced	88	38
Incarcerated household member	51	22
Syndemic Co-morbidities		
1 morbidity	5	2
2 comorbidities	55	24
3 comorbidities	69	30
4 comorbidities	59	26
5 comorbidities	32	14
6 comorbidities	10	4
Depressive symptoms (past week)	105	46
Missing	60	-
STI (at least one in past year)	105	46
Missing	41	-
Adult sexual victimization	93	40
Missing	0	-
Substance misuse (past 6 months)	84	37
Missing	51	-
Severe/extreme PTSD (past month)	64	28
Missing	65	-
Harmful drinking (past year)	53	23
Missing	54	-

Source: November 2015-May 2018

Table B. Comparison of fit statistics for the number of latent classes for syndemic comorbidities (n=230)

No. of Classes	BIC	AIC	Likelihood ratio	df
1	1799.45	1778.83	-883.41	6
2	1722.02	1677.33	-825.66	13

3	1747.73	1678.97	-819.48	20
4	1773.51	1684.12	-816.06	26
5	1806.57	1689.67	-810.84	34

Source: November 2015-May 2018; BIC=Bayesian Information Criterion; AIC=Akaike Information Criterion

Table C. Conditional probabilities for latent class membership (n=230)

Latent Class	Class 1:			Class 2:		
	Past-year STI			Syndemic Co-morbidities		
	59% (n=136)			41% (n=94)		
Syndemic Co-morbidities	Margin	STD Error	95% CI	Margin	STD Error	95% CI
Depressive symptoms (past week)	0.17	0.06	(0.08, 0.30)	0.85	0.07	(0.66, 0.95)
STI (≥1 in past year)	0.49	0.05	(0.40, 0.58)	0.41	0.06	(0.31, 0.53)
Adult sexual victimization	0.20	0.05	(0.12, 0.31)	0.68	0.06	(0.55, 0.79)
Substance misuse (past 6 months)	0.24	0.05	(0.17, 0.34)	0.53	0.06	(0.41, 0.64)
Severe/extreme PTSD (past month)	0.02	0.03	(0.00, 0.22)	0.63	0.08	(0.45, 0.77)
Harmful drinking (past year)	0.13	0.04	(0.07, 0.23)	0.36	0.06	(0.26, 0.48)

Source: November 2015-May 2018