Supplemental Online Content

Harlow AF, Lundberg D, Raifman JR, et al. Association of coming out as lesbian, gay, and bisexual+ and risk of cigarette smoking in a nationally representative sample of youth and young adults. *JAMA Pediatr*. Published online October 26, 2020. doi:10.1001/jamapediatrics.2020.3565

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This supplemental material has been provided by the authors to give readers additional information about their work.

eTable 1. Descriptive Baseline Characteristics Stratified by Eight-Level Sexual Identity Categories Among 7,843 Never Cigarette Smokers, Population Assessment of Tobacco and Health Study, 2013-2018

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	Consistently	Consistently	Consistently	Consistently	Coming out	Coming out	Other LGB+	Other LG+
	Heterosexual	LG+ (n=100)	Bisexual	LGB+ with	Bisexual	LG+ (n=163)	Patterns with	Patterns
Wave 1	(n=6,707)		(n=85)	change to/from	(n=339)		change to/from	(n=161)
characteristic ^a				Bisexual (n=99)			Bisexual	
				, ,			(n=189)	
% of total sample	87.1	1.3	1.1	1.2	3.2	1.78	2.1	87.1
Age, mean (SE)	20.1 (0.75)	20.7 (5.8)	20.4 (6.2)	19 (6.5)	17.5 (2.7)	18.9 (6.1)	19.8 (5.5)	20.8 (5.2)
Female sex	50.7	59.8	61.9	71.5	65.6	57	69.7	50.7
Race								
NH White	52.9	53.1	55.1	52.3	57.0	47.1	37.1	41.0
NH Black	14.9	23.2	17.5	9.0	12.9	14.1	17.6	21.5
Hispanic	20.3	18.2	16.1	14.0	16.7	20.7	32.5	28.7
Asian or Other	11.8	5.5	11.4	2.7	13.3	18.0	12.8	8.9
Educationb								
< HS	11.0	10.9	7.0	19.5	10.9	14.8	23.3	
HS Grad	24.6	23.7	24.0	19.3	24.9	24.2	22.7	
>HS	64.5	65.5	69.0	61.3	64.2	61.0	54.1	
US census region								
Northeast	17.8	27.5	12.8	10.1	12.6	12.0	17.3	19.1
Midwest	21.1	21.7	31.9	18.9	25.0	36.2	20.1	22.1
South	36.2	32.0	17.5	49.2	38.8	27.6	40.4	36.3
West	24.9	18.8	37.8	21.7	23.6	24.2	22.2	22.6
Urban residing	95.5	87.8	98.1	94.4	96.5	93.7	98.7	95.5

Abbreviations: LGB+, Lesbian, Gay, Bisexual and something else besides heterosexual; LG+, Lesbian, Gay, and something else besides heterosexual; SE, standard error; NH, Non-Hispanic aDescriptive statistics calculated using sample-weighted percentages and sample-weighted means bFor participants <18 years old, parental education is reported.

eTable 2. Prevalence of sexual identity patterns across four waves of data among 350 participants who change sexual identity over follow-up, but are not classified as coming out LGB+, Population Assessment of Tobacco and Health Study, 2013-2018

W1 LGB+a	W2 LGB+a	W3 LGB+a	W4 LGB+a	Weighted %
0	1	1	0	6.5
0	1	0	0	14.5
0	0	1	0	16.5
1	0	0	0	29.3
1	0	0	1	1.7
1	0	1	1	2.9
1	1	1	0	9.5
1	0	1	0	6.0
1	1	0	1	4.5
1	1	0	0	8.6

Abbreviations: W1, wave 1; W2, wave 2; W3, wave 3; W4, wave 4; LGB+, Lesbian, Gay, Bisexual and something else besides heterosexual

^a Indicates LGB+ status at each wave. 1=Identifies as LGB+ at specified wave, 0= Identifies as heterosexual at specified wave

eTable 3. Descriptive baseline characteristics among never cigarette smokers retained and lost to follow-up, Population Assessment of Tobacco and Health Study, 2013-2018

Wave 1 characteristic ^a	Retained (n=7,843)	Lost to Follow-up (n=3,197)b	
Age, mean (SE)	19.9 (0.7)	20.4 (0.9)	
Female sex	52.3	51.8	
Race			
NH White	52.4	52.2	
NH Black	15.1	20.4	
Hispanic	20.5	13.4	
Asian or Other	12.0	14.0	
Education ^c			
< High School	11.7	12.2	
Graduated High School	24.5	26.8	
>High School	63.8	61.0	
US census region			
Northeast	17.6	19.8	
Midwest	21.6	19.6	
South	36.1	36.4	
West	24.8	24.0	
Urban residing	95.6	95.1	
Sexual Identity			
LG	1.1	1.3	
Heterosexual	93.7	94.4	
Bisexual	3.0	2.6	
Other non-heterosexual identity	2.2	1.9	

Abbreviations: NH, Non-Hispanic; LGB+, Lesbian, Gay, Bisexual and something else besides heterosexual;

^aDescriptive statistics calculated using sample-weighted percentages and sample-weighted means

^bNever cigarette smokers at baseline who did not complete all four waves of data

[°]For participants <18 years old, parental education is reported.

eTable 4. Sex-Stratified Cigarette Smoking at Wave 4 by Four-Level Sexual Identity Categories among 7,843 Never Cigarette Smokers at Wave 1, Population Assessment of Tobacco and Health Study, 2013-2018

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Sexual Identity Category	Cigarette use	Odds Ratio	Adjusted Odds Ratio	Predicted Probabilities
	(%) ^a	(95% CI)	(95% CI) ^b	(95% CI) b,c
		Males (n=3,777))	
Smoking Initiation by Wave	4 ^d			
Total	16.6			
Consistently Heterosexual	16.4	1.0 (REF)	1.0 (REF)	0.202 (0.175-0.229)
Consistently LGB+	14.9	0.83 (0.43-1.58)	0.90 (0.47 to 1.71)	0.186 (0.088-0.283)
Coming out LGB+	23.4	1.59 (1.08-2.33)	1.30 (0.89 to 1.91)	0.248 (0.181-0.315)
Other LGB+ Patterns	15.5	0.98 (0.47-2.01)	1.08 (0.56 to 2.06)	0.214 (0.105-0.324)
Current Smoker at Wave 4e				
Total	7.5			
Consistently Heterosexual	7.3	1.0 (REF)	1.0 (REF)	0.088 (0.072-0.104)
Consistently LGB+	6.3	0.96 (0.32-2.85)	0.96 (0.32-2.85)	0.085 (0.003-0.167)
Coming out LGB+	11.6	1.39 (0.86-2.24)	1.39 (0.86-2.24)	0.118 (0.064-0.173)
Other LGB+ Patterns	11.0	1.67 (0.72-3.89)	1.90 (0.84-4.31)	0.155 (0.040-0.270)
		Females (n=4,06	6)	
Smoking Initiation by Wave	4 ^d			
Total	11.8			
Consistently Heterosexual	10.3	1.0 (REF)	1.0 (REF)	0.126 (0.102-0.150)
Consistently LGB+	18.1	2.00 (1.26-3.18)	1.94 (1.23-3.00)	0.090 (0.026-0.153)
Coming out LGB+	22.7	2.61 (1.84-3.68)	2.14 (1.57-2.93)	0.195 (0.120-0.271)
Other LGB+ Patterns	18.3	1.97 (1.37-2.85)	1.93 (1.36-2.73)	0.190 (0.073-0.307)
Current Smoker at Wave 4e				
Total	5.2			
Consistently Heterosexual	4.4	1.0 (REF)	1.0 (REF)	0.112 (0.095-0.129)
Consistently LGB+	9.5	2.32 (1.24-4.34)	2.22 (1.22-4.04)	0.196 (0.126-0.267)
Coming out LGB+	11.4	2.80 (1.84-4.26)	2.24 (1.48-3.40)	0.213 (0.160-0.266)
Other LGB+ Patterns	7.1	1.66 (1.02-2.72)	1.54 (0.96-2.49)	0.196 (0.141-0.251)

Abbreviations: LGB+, Lesbian, Gay, Bisexual and something else besides heterosexual; CI, confidence interval

^aSample-weighted percentages

^bRegression models and predicted probabilities were sample weighted and adjusted for urban residence, sex, race/ethnicity, education, census region

^cPredicted probabilities calculated at the mean of model covariates

dReported ever smoking by wave 4

^eDefined as past 30-day smoking at wave 4

Biological sex interaction term p-values: smoking initiation=0.04; current smoking=0.31

eTable 5. Age-Stratified Cigarette Smoking at Wave 4 by Four-Level Sexual Identity Categories among 7,843 Never Cigarette Smokers at Wave 1, Population Assessment of Tobacco and Health Study, 2013-2018 Identity Trajectory Cigarette use Odds Ratio Adjusted Odds Predicted (%) (95% CI) Ratio (95% CI)a Probabilities (95% CI) ab <18 years old (n=5,343) **Ever Cigarette Use** Total 19.9 Consistently 18.7 1.0 (REF) 1.0 (REF) 0.161 (0.146-Heterosexual 0.177) Consistently LGB+ 1.60 (1.07-1.75 (1.14-2.71) 0.252 (0.168-26.2 2.40)0.337) Coming out LGB+ 26.6 1.59 (1.19-1.71 (1.28-2.27) 0.247 (0.196-2.12)0.297)Other LGB+ Patterns 26.3 1.59 (1.23-1.77 (1.25-2.49) 0.253 (0.188-2.25) 0.318) Current (Past 30-day) Cigarette Use Total 9.9 1.0 (REF) Consistently 9.3 1.0 (REF) 0.081 (0.069-Heterosexual 0.092)13.4 1.56 (0.91-2.7) 1.80 (1.00-3.11) Consistently LGB+ 0.137 (0.069-0.205)Coming out LGB+ 13.7 1.54 (1.16-1.69 (1.25-2.22) 0.129 (0.098-2.04)0.161)Other LGB+ Patterns 1.35 (0.86-11.8 1.43 (0.96-2.39) 0.119 (0.071-2.13) 0.167) ≥18 years old (n=2,500) **Ever Cigarette Use** Total 10.6 Consistently 10.2 1.0 (REF) 1.0 (REF) 0.108 (0.086-Heterosexual 0.130)Consistently LGB+ 11.7 1.14 (0.64-1.22 (0.68-2.17) 0.128 (0.063-2.06) 0.194)Coming out LGB+ 17.6 1.95 (1.04-2.08 (1.08-4.01) 0.201 (0.098-3.66)0.304)Other LGB+ Patterns 11.6 1.17 (0.61-1.05 (0.53-2.10) 0.113 (0.045-2.25) 0.181)Current (Past 30-day) Cigarette Use Total 4.1 Consistently 3.8 1.0 (REF) 1.0 (REF) 0.039 (0.025-Heterosexual 0.053) Consistently LGB+ 5.4 1.45 (0.52-1.52 (0.56-4.12) 0.058 (0.002-4.08)0.114)Coming out LGB+ 8.0 2.31 (0.91-2.61 (1.00-6.82) 0.096 (0.019-5.85) 0.173)Other LGB+ Patterns 6.4 1.76 (0.76-1.45 (0.57-3.65) 0.056 (0.008-4.10)0.103)

Abbreviations: LGB+, Lesbian, Gay, Bisexual and something else besides heterosexual; CI, confidence interval

^aSample-weighted percentages

^bRegression models and predicted probabilities were sample weighted and adjusted for urban residence, sex, race/ethnicity, education, census region

[°]Predicted probabilities calculated at the mean of model covariates

dReported ever smoking by wave 4

eDefined as past 30-day smoking at wave 4

Age interaction term p-values: smoking initiation=0.66; current smoking=0.87

eFigure. Flowchart of Exclusion/Inclusion Criteria

