

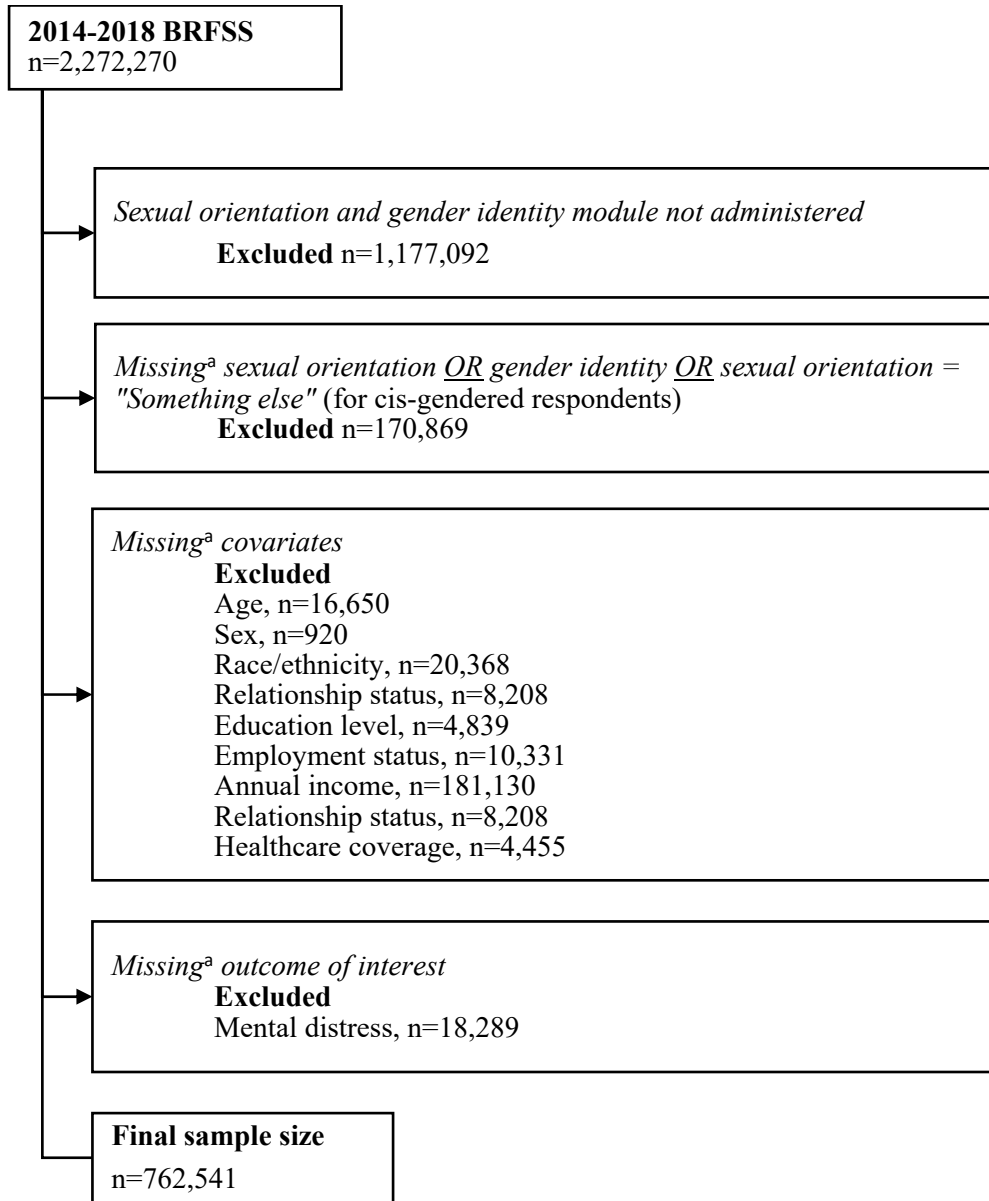
Supplemental Table S1. State and year respondent contributions to current study.

State	2014	2015	2016	2017	2018	Total %
AZ	0	0	0	0	100	100
CA	0	0	55.94	44.06	0	100
CO	0	100	0	0	0	100
CT	0	25.99	25.77	23.13	25.11	100
DE	21.61	18.36	19.05	17.79	23.18	100
FL	0	0	0	58.89	41.11	100
GA	0	30.41	34.18	35.41	0	100
HI	18.73	18.25	21.1	21.06	20.85	100
ID	27.6	28.15	26.54	0	17.7	100
IL	0	26.39	23.08	26.1	24.44	100
IN	27.27	13.6	26.16	32.97	0	100
IA	32.33	11.38	27.64	28.65	0	100
KS	29.82	46.5	0	0	23.67	100
KY	50.89	0	49.11	0	0	100
LA	32.88	0	23.39	20.79	22.95	100
MD	31.14	27.34	0	0	41.51	100
MA	0	38.97	32.83	28.19	0	100
MN	20.48	19.61	20.16	19	20.76	100
MS	0	0	37.84	38.05	24.1	100
MO	0	35.08	35.76	0	29.16	100
MT	41.59	0	0	31.77	26.64	100
NV	22.31	15.38	23.96	20.72	17.63	100
NY	6.63	11.52	35.78	11.6	34.47	100
NC	0	0	0	51.5	48.5	100
OH	18.88	18.35	20.83	19.99	21.95	100
OK	0	0	0	52.89	47.11	100
PA	31.41	14.91	19.35	18.07	16.26	100
RI	0	0	32.95	32.59	34.46	100
SC	0	0	0	50.05	49.95	100
TN	0	0	0	0	100	100
TX	0	28.98	24.8	25.21	21.02	100
VT	26.01	0	24.96	23.91	25.11	100
VA	21.76	18.92	18.9	19.86	20.56	100
WA	0	0	36.51	32.31	31.18	100
WV	0	52.42	0	0	47.58	100
WI	25.63	20.67	17.93	18.86	16.91	100
WY	100	0	0	0	0	100
Total %	16.29	17.63	21.54	21.09	23.44	100

Supplemental Table S2. Description of variables used in the current analysis.

Feature	Definition
Sexual orientation and gender identity	<ol style="list-style-type: none"> 1. HET&CIS [heterosexual, cis-gendered] 2. LG&CIS [lesbian or gay, cis-gendered] 3. B&CIS [bisexual, cis-gendered] 4. GD [male-to-female, female-to-female, or gender non-conforming, regardless of sexual orientation] <p><u>Note:</u> Response of “Other/Something else” to sexual orientation resulted in participant omission.</p>
Age	<ol style="list-style-type: none"> 1. 18-24 2. 25-34 3. 35-44 4. 45-54 5. 55-64 6. ≥65+
Sex	<ol style="list-style-type: none"> 1. Male 2. Female
Race/ethnicity	<ol style="list-style-type: none"> 1. White, Non-Hispanic 2. Black, Non-Hispanic 3. Other or Multiracial, Non-Hispanic 4. Hispanic
Education level	<ol style="list-style-type: none"> 1. Did not graduate high school 2. Graduated high school 3. Attended college or technical school 4. Graduated college or technical school
Relationship status	<ol style="list-style-type: none"> 1. Married or unmarried couple 2. Single [widowed, divorced, separated, and never married]
Employment status	<ol style="list-style-type: none"> 1. Employed or self-employed 2. Unemployed or unable to work 3. Student/homemaker 4. Retired
Annual income	<ol style="list-style-type: none"> 1. Less than \$15,000 2. \$15,000 to less than \$25,000 3. \$25,000 to less than \$35,000 4. \$35,000 to less than \$50,000 5. \$50,000 and above
Healthcare coverage	<ol style="list-style-type: none"> 1. Insured 2. Uninsured <p><u>Note:</u> Any coverage, including private health insurance, pre-paid plans (e.g., HMOs), government (e.g., Medicare), or Indian Health Service</p>
Multiple chronic conditions	<ol style="list-style-type: none"> 1. 0 or 1 condition(s) 2. 2+ conditions <p><u>Note:</u> Chronic medical conditions included prior diagnosis of angina/coronary artery disease, arthritis, asthma, cancer, chronic obstructive pulmonary disease, diabetes, chronic kidney disease as well as history of myocardial infarction or stroke</p>
Mental distress, last 30 days	<p>Continuous, 0 to 30 days</p> <p><u>Note:</u> Includes stress, depression, and problems with emotion.</p>
Frequent mental distress, last 30 days	<ol style="list-style-type: none"> 1. 0-13 days 2. ≥14 days

Supplemental Figure S1. Study sample selection.



^a Missing = Don't Know/Not Sure/Refused/Missing/Not Asked

Supplemental Table S3. Regression models of mean days of mental distress and percentage of frequent mental distress.

	Mental distress^{1,2} OR [95% Confidence Interval]	Frequent mental distress^{1,3} OR [95% Confidence Interval]
SOGI		
HET	REF	REF
LG	1.258*** [1.11,1.43]	2.132*** [1.56,2.92]
B	1.434*** [1.31,1.57]	2.673*** [2.20,3.25]
GD	1.685*** [1.45,1.97]	3.561*** [2.33,5.45]
Age		
18 to 24	REF	REF
25 to 34	1.098*** [1.05,1.15]	1.037 [0.95,1.13]
35 to 44	1.051* [1.00,1.10]	0.957 [0.88,1.05]
45 to 54	0.981 [0.94,1.03]	0.827*** [0.76,0.90]
55 to 64	0.924*** [0.88,0.97]	0.648*** [0.59,0.71]
65+	0.748*** [0.71,0.79]	0.360*** [0.32,0.40]
SOGI X Age		
HET# 18 to 24	REF	REF
HET# 25 to 34	REF	REF
HET# 35 to 44	REF	REF
HET# 45 to 54	REF	REF
HET# 55 to 64	REF	REF
HET# 65+	0.882 [0.74,1.05]	0.815 [0.52,1.28]
LG# 18 to 24	0.879* [0.78,0.99]	0.758* [0.59,0.98]
LG# 25 to 34	0.980 [0.69,1.38]	0.738 [0.34,1.61]
LG# 35 to 44	REF	REF
LG# 45 to 54	0.839 [0.69,1.02]	0.696 [0.45,1.08]
LG# 55 to 64	0.865* [0.76,0.98]	0.747 [0.55,1.01]
LG# 65+	0.598*** [0.45,0.79]	0.317** [0.15,0.68]
B# 18 to 24	REF	REF
B# 25 to 34	0.926 [0.76,1.13]	0.652* [0.43,1.00]
B# 35 to 44	0.843 [0.70,1.02]	0.630* [0.44,0.91]
B# 45 to 54	0.644** [0.49,0.84]	0.386** [0.19,0.78]
B# 55 to 64	REF	REF
B# 65+	0.868 [0.73,1.03]	0.571** [0.39,0.85]
GD # 18 to 24	0.777** [0.65,0.92]	0.434*** [0.30,0.62]
GD # 25 to 34	0.626*** [0.48,0.81]	0.383** [0.21,0.70]
GD # 35 to 44	REF	REF
GD # 45 to 54	0.939 [0.76,1.16]	0.664 [0.43,1.03]
GD # 55 to 64	0.804 [0.64,1.01]	0.530** [0.33,0.84]
GD # 65+	0.667* [0.49,0.91]	0.361** [0.19,0.69]
Sex		
Male	REF	REF
Female	1.022* [1.00,1.04]	1.351*** [1.30,1.40]
Race/ethnicity		
White, Non-Hispanic	REF	REF
Black, Non-Hispanic	0.936*** [0.91,0.97]	0.716*** [0.67,0.76]
Other, Non-Hispanic	0.950* [0.91,1.00]	0.857*** [0.78,0.94]
Hispanic	0.885*** [0.85,0.92]	0.639*** [0.59,0.69]
Education level		
Did not graduate high school	REF	REF
Graduated high school	0.947** [0.91,0.98]	0.868*** [0.81,0.93]
Attended college/technical school	0.897*** [0.87,0.93]	0.923* [0.86,0.99]
Graduated college/technical school	0.710*** [0.68,0.74]	0.638*** [0.59,0.69]
Relationship status		

Married or unmarried couple	REF	REF
Single	1.043*** [1.02,1.07]	1.262*** [1.21,1.32]
Employment status		
Employed/Self-employed	REF	REF
Unemployed or unable to work	1.553*** [1.51,1.60]	2.926*** [2.78,3.08]
Homemaker/Student	0.973 [0.94,1.01]	1.052 [0.98,1.13]
Retired	1.289*** [1.24,1.34]	1.083* [1.00,1.17]
Annual income		
Less than \$15K	REF	REF
\$15K to <\$25K	0.950*** [0.92,0.98]	0.834*** [0.78,0.89]
\$25K to <\$35K	0.868*** [0.83,0.90]	0.679*** [0.63,0.73]
\$35K to <\$50K	0.854*** [0.82,0.89]	0.643*** [0.60,0.69]
>\$50K	0.756*** [0.73,0.78]	0.499*** [0.46,0.54]
Healthcare coverage		
Yes	REF	REF
No	1.034* [1.00,1.07]	1.018 [0.96,1.08]
Multiple chronic conditions		
No	REF	REF
Yes	1.243*** [1.22,1.27]	1.908*** [1.83,1.99]
Observations	762541	762541

¹ Adjusted for the survey design. Strata with single sampling unit centered at overall mean. Models additionally adjusted for state of residence and year of participation fixed effects (not shown). Exponentiated coefficients; 95% confidence intervals in brackets. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

² Mental distress = mean number of days in the last month in which participants experienced stress, depression, and problems with emotion (0-30).

³ Frequent mental distress = percentage of participants experiencing 14 or more days of stress, depression, and problems with emotion in the last month.

Abbreviations: HET: Heterosexual, cis-gendered; LG: Lesbian or gay, cis-gendered; B: Bisexual, cis-gendered; GD: Gender diverse; SOGI: Sexual orientation and gender identity.