

TABLE 1. Selected characteristics of female respondents, National Longitudinal Study of Adolescent Health, Waves 3 (2001–2002) and 4 (2007–2008), by race, ethnicity and sexual orientation

Characteristic	Total (N=6,036)	White				Black			
		All (N=3,628)	Heterosexual (N=2,846)	Mixed- oriented (N=729)	Gay (N=53)	All (N=1,446)	Heterosexual (N=1,225)	Mixed- oriented (N=192)	Gay (N=29)
Mean no. of partners									
Male, before 18	2.7 (2.4–2.9)	2.7 (2.5–2.9)	2.2 (2.0–2.4)	4.6 (3.8–5.4)†	2.5 (0.9–4.2)	2.8 (2.3–3.3)	2.5 (1.9–3.0)	5.4 (4.1–6.8)†	1.9 (1.2–2.7)
Female, before 18	0.1 (0.1–0.1)	0.1 (0.1–0.1)	0.0 (0.0–0.0)	0.2 (0.1–0.3)†	1.0 (0.5–1.5)†	0.0 (0.0–0.1)§	0.0 (0.0–0.0)	0.2 (0.1–0.3)†	0.7 (0.0–1.3)†
Male, ever	9.8 (9.2–10.5)	10.2 (9.4–11.1)	8.3 (7.8–8.8)	18.1 (14.4–21.7)†	5.5 (2.5–8.4)*	9.8 (8.8–10.8)	8.8 (7.8–9.7)	18.2 (14.2–22.3)†	8.7 (4.4–12.9)
Female, ever	0.6 (0.4–0.7)	0.6 (0.4–0.8)	0.1 (0.1–0.1)	1.6 (1.0–2.2)†	12.5 (4.8–20.2)†	0.4 (0.2–0.7)	0.1 (0.0–0.1)	1.3 (0.9–1.7)†	11.6 (3.0–20.1)**
Ever had forced sex	24.2 (22.5–26.0)	26.1 (24.0–28.1)	22.1 (20.1–24.1)	40.4 (35.4–45.3)†	43.1 (27.2–58.9)†	19.1 (15.3–22.8)§	17.7 (14.1–21.3)†	28.3 (18.7–37.9)	28.5 (7.0–50.0)
Ever used condom in past 12 mos.††	40.4 (38.2–42.5)	38.0 (35.5–40.3)	37.3 (34.7–39.9)	42.8 (37.7–47.9)*	11.2 (2.7–19.7)†	50.7 (47.3–54.1)§	50.4 (46.8–54.1)†	52.7 (42.6–62.8)†	49.6 (24.5–74.7)
Ever incarcerated	7.6 (6.6–8.7)	7.1 (6.0–8.3)	5.4 (4.2–6.5)	12.9 (9.6–16.2)†	20.8 (7.0–34.5)†	9.2 (6.4–12.1)	8.4 (5.8–11.0)†	16.5 (8.2–24.7)†	8.0 (0.0–22.3)
Ever injected drugs	1.1 (0.1–1.5)	1.3 (0.8–1.8)	0.1 (0.0–0.1)	2.6 (1.0–4.2)†	7.8 (0.0–17.2)	0.0 (0.0–0.0)§	0.1 (0.1–0.1)†	0.0 (0.0–0.0)†	0.0 (0.0–0.0)†
Ever had commercial sex	2.6 (1.9–3.2)	1.3 (0.1–1.8)	0.1 (0.0–0.1)	3.3 (1.7–4.9)†	2.0 (0.0–6.8)	8.4 (5.7–11.0)†	7.4 (4.8–10.0)†	15.5 (8.1–23.0)†	10.6 (0.0–26.3)
Ever had STD									
By Wave 3	14.5 (13.0–16.0)	11.6 (10.1–13.0)	10.2 (8.8–11.7)	17.3 (13.6–21.1)†	5.8 (0.0–14.9)	28.3 (25.0–31.5)§	27.5 (24.2–30.8)†	35.1 (24.5–45.6)†	24.4 (0.0–50.3)
By Wave 4	36.9 (34.5–39.2)	32.3 (30.4–34.1)	29.2 (27.3–31.2)	45.8 (41.3–50.3)†	12.6 (1.7–23.5)†	59.6 (55.9–63.3)§	58.3 (54.3–62.2)†	74.0 (66.3–81.7)†	38.7 (10.5–67.0)
In 12 mos. before Wave 4	14.4 (13.0–15.7)	13.1 (11.6–14.6)	11.4 (9.8–13.0)	19.8 (16.5–23.2)†	12.4 (1.5–23.2)	19.1 (16.4–21.8)§	18.2 (15.4–21.0)†	28.1 (19.4–36.7)†	7.3 (0.0–18.0)
Mean age (Wave 4)	28.6 (28.4–28.7)	28.6 (28.3–28.9)	28.7 (28.4–28.9)	28.3 (28.0–28.6)†	28.6 (28.0–29.2)	28.8 (28.4–29.2)	28.8 (28.4–29.3)	28.5 (28.0–28.9)	28.3 (27.3–29.4)
Education									
<high school	6.9 (5.4–8.3)	5.8 (4.2–7.4)	5.8 (4.1–7.4)	7.9 (5.0–10.8)	3.4 (0.0–10.0)	8.8 (6.1–11.6)‡	8.7 (5.9–11.6)†	9.4 (2.3–16.4)	13.3 (0.0–30.9)
High school graduate	13.4 (11.7–15.0)	12.6 (10.3–14.2)	12.2 (9.9–14.4)	11.8 (8.7–14.8)	22.3 (7.0–37.6)	15.7 (12.0–19.3)‡	16.2 (12.1–20.3)*	9.7 (4.0–15.4)	25.3 (0.1–50.1)
>high school	79.8 (77.2–82.3)	81.6 (78.8–84.4)	82.1 (79.1–85.0)	80.3 (76.0–84.6)	74.3 (58.2–90.3)	75.5 (70.6–80.3)§	75.1 (69.7– 80.4)*	80.9 (73.0–88.9)	61.4 (36.1–86.7)*
Changed sexual orientation between waves	17.8 (16.1–19.4)	19.1 (17.0–21.2)	6.5 (4.7–8.3)	64.5 (60.0–69.0)†	73.8 (59.6–88.0)†	11.9 (9.6–14.1)§	2.9 (1.4–4.5)†	71.7 (63.5– 79.8)†	83.9 (64.0–100.0)†

*Significantly different from heterosexual whites at p<.10. †Significantly different from heterosexual whites at p<.05. ‡Significantly different from whites of all orientations at p<.10.

§Significantly different from whites of all orientations at p<.05. **Significantly different from heterosexual whites at p<.001. ††Restricted to sexually active women. Notes: Unless otherwise noted, data are percentages. Figures in parentheses are 95% confidence intervals.

TABLE 1 continued

Hispanic

All (N=962)	Heterosexual (N=791)	Mixed- oriented (N=150)	Gay (N=21)
2.2 (1.7–2.8)‡	1.9 (1.3–2.5)	3.7 (2.4–5.1)†	1.4 (0.0–3.1)
0.1 (0.0–0.1)	0.0 (0.0–0.1)	0.2 (0.0–0.4)*	0.7 (0.1–1.2)†
7.4 (6.1–8.7)§	6.0 (5.1–7.0)†	14.1 (10.0–18.1)†	5.0 (2.3–7.7)†
0.4 (0.3–0.5)§	0.1 (0.1–0.1)	1.3 (0.7–1.9)†	3.5 (1.1–5.8)†
19.9 (14.9–25.0)	16.7 (11.9–21.4)†	34.9 (23.7–46.1)†	19.2 (0.0–40.6)
41.9 (36.8–47.0)	40.1 (33.6–46.6)	51.0 (38.1–63.8)†	31.6 (1.3–61.8)
8.7 (5.7–11.7)	8.0 (4.7–11.3)	11.6 (5.5–17.8)†	9.9 (0.0–22.3)
1.4 (0.3–2.5)	1.3 (0.0–2.4)	1.4 (0.0–3.5)	7.0 (0.0–20.8)
2.3 (0.8–3.9)	2.2 (0.0–4.0)	3.3 (0.0–6.7)	0.4 (0.0–1.2)
14.0 (10.3–17.7)	12.1 (8.2–16.0)	22.6 (13.5–31.6)†	13.8 (0.0–42.4)
34.6 (28.5–40.8)	31.3 (24.4–38.2)	51.5 (41.0–62.0)†	20.3 (0.0–33.6)
16.0 (11.5–20.4)	16.1 (10.5–21.6)	17.4 (11.1–23.8)*	0.0 (0.0–0.0)†
28.6 (28.2–29.1)	28.7 (28.1–29.2)	28.6 (28.0–29.1)	28.1 (27.2–29.1)
8.7 (5.7–11.7)	8.9 (5.1–12.6)	6.5 (0.9–12.2)	21.9 (0.0–52.6)
17.3 (13.3–21.3)§	18.6 (14.0–23.1)†	13.1 (5.3–20.9)	3.7 (0.0–11.0)†
74.0 (69.5–78.4)§	72.6 (67.5–77.6)†	80.4 (71.9–88.9)	74.4 (44.3–100.0)
17.6 (14.4–20.9)	6.0 (4.0–7.9)	64.4 (53.4–75.4)†	73.3 (45.4–100.0)†

TABLE 2. Selected characteristics of male respondents, National Longitudinal Study of Adolescent Health, Waves 3 (2001–2002) and 4 (2007–2008), by race, ethnicity and sexual orientation

Characteristic	Total (N=5,009)	White				Black			
		All (N=3,096)	Heterosexual (N=2,883)	Mixed- oriented (N=141)	Gay (N=72)	All (N=1,020)	Heterosexual (N=964)	Mixed- oriented (N=27)	Gay (N=29)
Mean no. of partners									
Male, before 18	0.1 (0.0–0.2)	0.1 (0.0–0.1)	0.0 (0.0–0.0)	0.4 (0.2–0.6)†	2.6 (1.2–4.0)†	0.3 (0.0–0.8)	0.0 (0.0–0.0)	0.7 (0.0–1.5)*	11.4 (0.0–30.8)
Female, before 18	3.6 (3.1–4.1)	3.3 (2.8–3.8)	3.4 (2.9–4.0)	2.3 (1.0–3.5)*	0.6 (0.3–0.9)†	4.9 (3.7–6.2)§	5.1 (3.8–6.5)†	2.3 (0.9–3.8)	0.5 (0.0–1.0)†
Male, ever	0.9 (0.6–1.1)	0.7 (0.4–1.1)	0.1 (0.1–0.2)	1.6 (0.8–2.3)†	24.7 (11.3–38.1)†	1.3 (0.5–2.1)	0.3 (0.0–0.5)	4.2 (0.2–8.2)†	35.9 (10.5–61.3)†
Female, ever	16.7 (15.4–18.1)	15.4 (14.4–16.5)	15.9 (14.7–17.0)	12.7 (7.8–17.6)	1.9 (0.9–3.0)†	23.4 (18.3–28.6)	24.5 (19.3–29.8)	8.8 (5.2–12.4)†	1.1 (0.3–1.9)†
Ever had forced sex	4.4 (3.6–5.2)	3.6 (2.9–4.4)	3.4 (2.6–4.2)	8.4 (3.2–13.6)*	3.6 (0.0–9.0)	7.7 (5.1–10.3)§	7.4 (4.7–10.1)†	18.1 (0.0–38.2)	18.0 (0.0–40.0)
Ever used condom in past 12 mos.**	51.2 (48.6–53.8)	48.6 (45.6–51.6)	47.3 (44.4–50.3)	62.3 (52.2–72.4)†	74.7 (63.3–86.0)†	62.5 (58.2–66.8)§	62.0 (13.5–22.5)†	74.4 (52.9–95.8)†	70.7 (44.3–97.2)*
Ever incarcerated	24.2 (21.9–26.5)	21.7 (19.3–24.2)	21.7 (19.6–23.9)	25.3 (13.2–37.5)	13.5 (1.4–25.7)	31.0 (24.5–37.6)§	32.1 (25.5–38.8)†	18.1 (0.0–38.2)	2.4 (0.0–6.4)†
Ever injected drugs	2.1 (1.6–2.7)	2.7 (1.9–3.5)	2.7 (1.9–3.5)	1.1 (0.0–2.3)†	4.7 (0.0–10.7)	0.4 (0.0–0.8)§	0.3 (0.0–0.7)†	2.8 (0.0–8.2)	0.0 (0.0–0.0)†
Ever had commercial sex	6.9 (5.8–8.0)	4.7 (3.8–5.7)	4.4 (3.4–5.3)	11.4 (3.6–19.1)*	5.2 (0.0–11.5)	17.1 (12.6–21.6)§	17.8 (13.1–22.6)†	9.8 (0.0–25.3)	2.6 (0.0–6.6)
Ever had STD									
By Wave 3	5.7 (4.7–6.7)	4.5 (3.5–5.5)	4.4 (3.4–5.4)	2.9 (0.0–5.7)	9.5 (1.5–17.6)†	12.9 (9.7–16.1)§	12.9 (9.7–16.0)†	17.0 (0.0–35.8)	9.7 (0.0–21.4)
By Wave 4	16.0 (14.2–17.7)	12.1 (10.6–13.6)	11.6 (10.1–13.1)	16.3 (8.9–23.6)	24.8 (12.7–36.9)	33.5 (29.0–38.1)§	32.3 (27.9–36.9)†	68.6 (47.1–90.1)†	39.7 (12.6–66.9)†
In 12 mos. before Wave 4	5.0 (4.1–5.8)	3.9 (2.9–4.9)	3.7 (2.6–4.7)	7.4 (1.1–13.7)	8.0 (0.5–15.5)	8.8 (6.6–11.1)§	8.0 (5.6–10.5)†	41.0 (16.3–65.7)†	5.2 (0.0–10.9)
Mean age (Wave 4)	28.9 (28.6–29.1)	28.8 (28.5–29.1)	28.8 (28.5–29.1)	28.7 (28.0–29.3)	28.7 (28.1–29.3)	29.1 (28.7–29.6)	29.1 (28.7–29.6)	28.7 (27.9–29.4)	28.9 (28.1–29.9)
Education									
<high school	10.0 (8.4–11.7)	8.1 (6.5–9.8)	8.3 (6.6–10.0)	7.8 (2.3–13.3)	1.5 (0.0–3.8)†	14.3 (10.3–18.2)§	14.2 (10.1–18.4)†	15.5 (0.0–35.4)	14.3 (0.0–35.5)
High school graduate	20.4 (17.9–22.9)	19.1 (16.4–21.8)	19.8 (17.1–22.6)	7.9 (2.2–13.6)†	10.5 (0.0–21.7)*	26.2 (20.3–32.0)§	26.8 (20.7–32.9)†	27.4 (2.5–52.4)	0.8 (0.0–2.2)†
>high school	69.6 (66.1–73.1)	72.8 (69.1–76.4)	71.9 (68.2–75.5)	84.3 (76.4–92.2)†	87.9 (76.6–99.2)†	59.6 (51.7–67.4)§	59.0 (50.8–67.2)†	57.1 (30.3–83.9)	85.0 (63.8–100.0)
Changed sexual orientation between waves	6.2 (4.9–7.5)	6.9 (5.2–8.6)	2.6 (1.7–3.5)	69.2 (58.3–80.0)†	61.1 (43.5–78.8)†	4.2 (2.9–5.5)§	1.2 (0.4–1.9)†	71.2 (48.3–95.0)	47.5 (18.5–76.5)†

*Significantly different from heterosexual whites at p<.10. †Significantly different from heterosexual whites at p<.05. §Significantly different from whites of all orientations at p<.05.

**Restricted to sexually active men. Notes: Unless otherwise noted, data are percentages. Figures in parentheses are 95% confidence intervals.

TABLE 2 continued

Hispanic

All (N=893)	Heterosexual (N=827)	Mixed- oriented (N=33)	Gay (N=33)
0.1 (0.0–0.2)	0.0 (0.0–0.0)	0.2 (0.0–0.4)	3.3 (0.3–6.3)†
3.6 (2.3–5.0)	3.8 (2.3–5.2)	3.4 (0.4–6.4)	0.4 (0.0–0.9)†
1.1 (0.5–1.8)	0.1 (0.0–0.2)	3.0 (1.4–4.6)†	28.5 (14.3–42.7)†
16.7 (12.6–20.7)	17.4 (13.0–21.7)	12.3 (5.5–19.1)	0.8 (0.0–1.4)†
5.1 (2.9–7.4)	4.3 (2.2–6.5)	8.3 (0.0–19.6)	25.9 (2.9–49.0)*
52.9 (48.0–57.8)	52.0 (46.9–57.1)*	41.6 (21.2–61.8)	92.2 (80.3–100.0)†
30.4 (24.9–35.9)§	30.6 (25.0–36.2)†	46.9 (9.8–84.0)	7.9 (0.0–22.3)†
0.9 (0.1–1.7)§	0.9 (0.0–1.8)†	0.3 (0.0–1.0)†	0.0 (0.0–0.0)†
7.4 (4.2–10.6)	4.3 (2.2–6.5)*	5.6 (0.0–14.6)	0.0 (0.0–0.0)†
4.2 (2.3–6.1)	4.0 (2.0–6.0)	5.4 (0.0–15.2)	10.2 (0.0–29.7)
17.5 (13.5–21.5)§	16.6 (12.7–20.6)*	13.3 (0.0–30.9)	49.0 (21.2–76.9)†
6.4 (4.4–8.4)§	5.4 (3.5–7.4)	7.5 (0.0–21.8)	34.6 (4.6–64.7)†
29.0 (28.5–29.5)	29.0 (28.5–29.5)	29.0 (28.2–29.8)	28.8 (27.9–29.8)
15.8 (11.5–20.1)§	16.3† (11.7–21.0)	7.9 (0.0–23.1)	7.4 (0.0–21.8)
20.9 (15.9–25.8)	21.4 (16.2–26.6)	13.7 (0.0–32.4)	10.9 (0.0–30.3)
63.3 (57.3–69.3)§	62.2 (56.2–68.2)†	78.4 (54.0–100.0)	81.7 (59.8–100.0)
4.6 (2.8–6.4)§	1.7 (0.4–3.1)	50.8 (28.8–72.9)†	42.7 (12.6–72.3)†

TABLE 3. Odds ratios or coefficients from multivariate regression analyses assessing associations between STD and HIV risk factors and selected characteristics, by gender

Characteristic	Ever had STD, Wave 3	Ever had STD, Wave 4	Total no. of partners	Ever incarcerated	Ever had forced sex	Ever injected drugs	Ever used condom in past 12 mos.	Ever had commercial sex
FEMALES								
Interactions								
White x heterosexual (ref)	1.00	1.00	na	1.00	1.00	1.00	1.00	1.00
White x mixed-oriented	1.77***	1.84***	11.90***	2.08***	2.38***	2.04	0.99	3.24*
White x gay	0.61	0.31*	10.09**	3.58**	2.66**	6.39*	0.16***	1.71
Black x heterosexual	2.96***	3.37***	0.38	1.49†	0.74*	0.05**	1.82***	9.55***
Black x mixed-oriented	6.43***	6.14***	11.77***	2.73**	1.37	0.11†	1.65*	16.94***
Black x gay	6.15*	1.29	12.52*	0.89	1.36	u	1.22	9.11*
Hispanic x heterosexual	1.20	1.08	-2.28***	1.38	0.70*	1.45	1.22	2.61†
Hispanic x mixed-oriented	2.05*	2.33***	7.55**	1.85†	1.88*	1.16	1.36	3.12
Hispanic x gay	1.31	0.51	0.82	1.21	0.79	5.24	0.54	0.32
Changed sexual orientation between waves	na	1.18	-0.80	1.44†	1.02	1.89	1.10	1.60
Age	0.97	0.98	0.40*	1.03	1.04	0.93	0.90***	1.08
Education								
>high school (ref)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
High school graduate	0.97	1.04	0.73	2.20***	1.04	1.62	0.73*	1.69†
<high school	1.32	1.49*	0.63	4.02***	1.50**	1.79	0.48***	1.98*
<i>Constant</i>	<i>na</i>	<i>na</i>	<i>1.94</i>	<i>na</i>	<i>na</i>	<i>na</i>	<i>na</i>	<i>na</i>
MALES								
Interactions								
White x heterosexual	1.00	1.00	na	1.00	1.00	1.00	1.00	1.00
White x mixed-oriented	0.86	1.34	0.07	1.08	2.86**	0.21*	1.76*	2.19
White x gay	8.30***	2.31*	12.31†	0.56	1.16	1.08	3.26**	0.98
Black x heterosexual	2.91***	3.64***	8.55**	1.51**	2.22***	0.12***	3.00***	4.34***
Black x mixed-oriented	5.97***	15.18***	-1.03	0.51	3.21	0.53	3.30	0.86
Black x gay	3.20	4.58*	21.70†	0.07**	6.84*	u	4.83†	0.45
Hispanic x heterosexual	1.00	1.51*	1.26	1.40*	1.27	0.32*	1.46**	1.69
Hispanic x mixed-oriented	1.80	1.08	0.61	1.40	2.74	0.07*	1.01	0.99
Hispanic x gay	u	6.88***	14.22*	0.29	10.67***	u	24.20**	u
Changed sexual orientation between waves	na	1.15	-2.95	1.42	0.90	2.26	1.31	1.55
Age	0.98	1.03	0.61†	0.99	0.98	1.06	0.84***	1.22***
Education								
>high school (ref)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
High school graduate	1.06	0.92	-1.52	2.13***	1.24	0.84	0.77*	1.23
<high school	1.89***	1.10	2.51	4.79***	1.22	1.81†	0.80	1.78*
<i>Constant</i>	<i>na</i>	<i>na</i>	<i>6.43</i>	<i>na</i>	<i>na</i>	<i>na</i>	<i>na</i>	<i>na</i>

*p<.05. **p<.01. ***p<.001. †p<.10. Notes: All figures are odds ratios except those for "Total no. of partners," which are beta coefficients. ref=reference group. na=not applicable. u=unavailable.