NSFG OMB Attachment P

Comparison of Unweighted Distributions by Sexual Orientation in NSFG ACASI, based on NSFG and NHIS Question Wording

Note: This attachment was provided in our Change Request, approved in August 2017

Background

Since 2002, the NSFG has included a question on sexual orientation, asked for all male and female respondents aged 15-44 (and 15-49 since 2015) in the self-administered portion of the survey (Audio Computer-Assisted Self-Interview, or ACASI). Detailed reports on sexual behavior, sexual orientation and sexual attraction, based on NSFG data from 2002, 2006-2008, 2006-2010, and 2011-2013 have been published (Mosher et al., 2005; Chandra et al., 2011, 2012; Copen et al., 2016). Other reports published by NCHS have examined sexual orientation as one of several correlates of other sexual and reproductive health related behaviors such as HIV testing, self-report of STI in lifetime and other STI/HIV risk behaviors (Copen et al., 2015; Mosher et al., 2005; Chandra et al., 2012).

Since sexual orientation was first included in the NSFG ACASI in 2002, several changes have been made to the NSFG question to minimize response error. The 2002 question was patterned directly on the 1992 National Health and Social Life Survey, conducted by University of Chicago, and basic statistics were published (Mosher et al, 2005). For reasons fully described in the technical notes of a prior NCHS report (Chandra et al, 2011), in 2006, more commonly known terms for sexual orientation were added to the response categories used in the 2002 NSFG. Instead of "heterosexual," the response was changed to "heterosexual or straight" for both men and women. Similarly, instead of "homosexual," men were offered "homosexual or gay," and women were offered "homosexual, gay, or lesbian." Furthermore, respondents were able to select the category of "something else" to describe their sexual orientation in both 2002 and 2006-2008. Detailed analysis of the "something else" category showed that the addition of the more commonly known terms to describe sexual orientation significantly reduced the percentage of respondents reporting "something else" as well as the percentages who "did not report" sexual orientation (e.g., "don't know" or "refused") between 2002 and 2006-2008. Hence, the "something else" category and a follow-up verbatim question, "When you say "something else," what do you mean?" were deleted from the survey in July 2008.

Along with these improvements in the wording of the NSFG's sexual orientation question, there have been continued efforts to harmonize the sexual orientation question across NCHS surveys. The National Health Interview Survey (NHIS) first included a sexual orientation question in 2013, and after several years of cognitive and operational testing (Dahlhamer, 2014), arrived at a question that was recommended as the NCHS-wide standard.

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The NSFG and NHIS questions are shown below:

NSFG question:

Do you think of yourself as ...

Heterosexual or straight Homosexual, gay, or lesbian Bisexual

NHIS question:

Which of the following best represents how you think of yourself?

Lesbian or gay Straight, that is, not lesbian or gay Bisexual Something else

NSFG was asked to adopt the NHIS question beginning in 2015, but given the NSFG's longer history of asking about sexual orientation in the ACASI mode, we were approved, as part of our 2015-2018 renewal package in 2015, to conduct a 50-50 randomized study to compare the distributions by sexual orientation that are obtained using the two question approaches. Also, this study permitted an assessment of the two questions in a similar placement in the questionnaire, that is, in the same position in ACASI after all sexual behavior items had been asked, which would potentially "equalize" any contextual effects seen when comparing NSFG and NHIS data directly. Beginning with fieldwork in September 2015, all NSFG ACASI respondents were randomized in a 50-50 split to be asked either the NHIS or the NSFG sexual orientation question.

Results of the 50-50 Randomized Study of the NSFG & NHIS Questions

Tables 1 and 2 show the <u>unweighted</u> sample numbers and percentage distributions for the NSFG and NHIS sexual orientation questions among 4,253 females and 3,474 males respondents aged 15-49 who were interviewed between September 2015 through March 2017. (Appropriate sample weights for the full 2-year data files planned for public release will not be available until early 2018, so only unweighted tabulations can be examined at this time.) The overall distribution by sexual orientation was similar for the NSFG and NHIS questions. Among females 15-49, 89.3% who received the NSFG question identified as "heterosexual or straight" compared with 86.9% who received the NHIS question, 2.3% and 2.1% identified as "homosexual/gay/lesbian," 7.3% and 6.7% identified as "bisexual," 0.6% and 0.8% refused and 0.5% and 0.1% said "don't know." For males 15-49, 93.8% who received the NSFG question identified as "heterosexual or straight" compared with 92.1% who received the NHIS question, 2.3% and 2.9% identified as "homosexual/gay," 2.9% and 2.1% identified as "bisexual," 0.8% (for both) refused and 0.3% and 0.1% said "don't know."

Responses to the NSFG and NHIS sexual orientation questions were also generally similar by the subgroups shown for age, Hispanic origin and race, education, and ACASI language. Additionally, 3.5% of females and 2.0% of male respondents aged 15-49 identified as "something else" (NHIS question

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only). One primary difference between these questions, albeit with these unweighted data, was among female and male respondents aged 15-49 who completed ACASI in Spanish; these respondents appeared more likely to identify as "something else," an option only available in the NHIS question, than respondents who completed ACASI in English. For female respondents completing ACASI in Spanish, 16.3% identified as "something else," compared with 2.8% of females completing ACASI in English. For male respondents completing ACASI in Spanish, 9.5% identified as "something else," compared with 1.6% of males completing ACASI in English. This difference in reporting of "something else" by ACASI language for the NHIS version of the sexual orientation question reduced the percentage identifying as "heterosexual/straight," compared with the percentages seen with the NSFG question where no "something else" option was offered. Among women answering the NHIS question in Spanish, 75.5% identified as "straight" compared with 94.1% of women answering the NSFG question in Spanish. No such difference was seen among women answering the ACASI questions in English. Although the difference was smaller for males, a similar pattern was seen: 83.3% of males who answered the NHIS question in Spanish identified as "straight," compared with 88.4% of females who answered the NSFG question in Spanish. The unweighted data also suggest that females and males who completed ACASI in Spanish were also more likely to answer either version of the sexual orientation question with "don't know" or "refusal" compared with those who answered in English.

While we cannot know for sure what respondents answering "something else" on the NHIS question may have meant, there is some possible insight from previous data collected for the NSFG and NHIS. Before the follow-up questions for those reporting "something else" were dropped in both the NSFG (in 2008) and NHIS (in 2015) surveys, analyses of these verbatim responses indicated that there were no significant differences in any of the response categories of sexual orientation once responses that could be backcoded into an existing category were re-classified (Chandra et al, 2011; Dahlhamer et al, 2014). It is difficult to conclude whether the addition of the "something else" category on the NHIS question significantly changes the percent distribution of the other sexual orientation categories, particularly for those who answered the ACASI in Spanish, until more data from this 50-50 study are available and can be analyzed with the appropriate sample weights and variance estimation variables to account for the complex survey design.

Recommendation

Based on these unweighted findings from the 50-50 study of the 2 question approaches, we would like to continue the study to compare these questions until the end of fieldwork under the current contract (currently scheduled to end June 2019, with possible extension to September 2019). Additional cases and the availability of the sample weights (prepared by ICPSR before release of the 2015-2017 file in Fall 2018) will allow us to compare these questions in a more statistically valid manner, accounting for the complex survey design and assessing the statistical significance of the differences noted with unweighted data.

References

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Table 1. Sexual orientation among women aged 15-49, by survey question asked in NSFG ACASI, Sept 2015-Mar 2017 N=2,126 asked NSFG question; N=2,104 asked NHIS question

Females (N=4,253)		Heterosex	ual or straig	ht		Homose	xual, gay or	lesbian		Bisexual			
		NSFG		NHIS		NSFG	NHIS		NSFG		NHIS		
Characteristic	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Total ¹	1899	89.3	1828	86.9	48	2.3	45	2.1	156	7.3	140	6.7	
Age at interview													
15-24 25-49	523 1376	84.4 91.4	509 1319	81.2 89.3	17 31	2.7 2.1	12 33	1.9 2.2	73 83	11.8 5.5	75 65	12.0 4.4	
Hispanic origin and race													
Hispanic	456	89.4	390	87.6	10	2.0	6	1.4	34	6.7	20	4.5	
Non-Hispanic White	852	89.1	864	85.8	21	2.2	22	2.2	78	8.2	82	8.1	
Non-Hispanic Black	394	90.4	397	88.0	14	3.2	14	3.1	24	5.5	22	4.9	
Education													
Less than high school	414	85.4	332	80.2	11	2.3	9	2.2	52	10.7	44	10.6	
High school or GED	465	89.4	487	85.9	15	2.9	10	1.8	35	6.7	38	6.7	
Some college or more	1017	91.0	1009	89.9	22	2.0	26	2.3	69	6.2	58	5.2	
ACASI Language													
ACASI in English	1788	89.0	1754	87.4	48	2.4	43	2.1	156	7.8	138	6.9	
ACASI in Spanish	111	94.1	74	75.5	0	0.0	2	2.0	0	0	2	2.0	

		Some	ething else		Refused				Don't know				
		NSFG		NHIS		NSFG		NHIS		NSFG		NHIS	
Characteristic	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Total ¹			73	3.5	13	0.6	17	0.8	10	0.5	1	0.1	
Age at interview													
15-24			28	4.5	5	0.8	2	0.3	2	0.3	1	0.2	
25-49			45	3.1	8	0.5	15	1.0	8	0.5	0	0	
Hispanic origin and race													
Hispanic			21	4.7	7	1.4	8	1.8	3	0.6	0	0	
Non-Hispanic White			31	3.1	3	0.3	7	0.7	2	0.2	1	0.1	
Non-Hispanic Black			18	4.0	1	0.2	0	0	3	0.7	0	0	
Education													
Less than high school			24	5.8	4	0.8	5	1.2	4	0.8	0	0	
High school or GED			25	4.4	3	0.6	7	1.2	2	0.4	0	0	
Some college or more			24	2.1	6	0.5	5	0.5	4	0.4	1	0.1	
ACASI Language													
ACASI in English			57	2.8	9	0.5	13	0.7	7	0.4	1	0.1	
ACASI in Spanish			16	16.3	4	3.4	4	4.1	3	2.5	0	0	

^{1/}Includes other or multiple race, not show separately.

NOTES: All numbers and percentages shown are unweighted. NSFG is National Survey of Family Growth. NHIS is National Health Interview Survey. Percentages may not add to 100 due to rounding. SOURCE: National Survey of Family Growth preliminary, non-public data files based on interviews conducted September 2015 through March 2017

⁻⁻Not applicable

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Table 2. Sexual orientation among men aged 15-49, by survey question asked in NSFG ACASI, Sept 2015-Mar 2017 N=1,792 asked NSFG question; N=1,672 asked NHIS question

Males (N=3,464)		Heterosexu	Ieterosexual or straight					gay	Bisexual			
	NSFG		NHIS		NSFG		NHIS		NSFG		NHIS	
Characteristic	Number	Row % (unweighted)	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total ¹	1680	93.5	1539	92.1	41	2.3	49	2.9	52	2.9	36	2.2
Age at interview												
15-24	578	92.9	510	93.4	13	2.1	9	1.7	23	3.7	13	2.4
25-49	1102	94.2	1029	91.4	28	2.4	40	3.6	29	2.5	23	2.0
Hispanic origin and race												
Hispanic	388	91.5	334	90.3	10	2.4	11	3	13	3.1	8	2.2
Non-Hispanic White	794	93.2	766	92.1	23	2.7	28	3.4	31	3.6	19	2.3
Non-Hispanic Black	324	96.7	287	96.0	4	1.2	3	1.0	6	1.8	3	1.0
Education												
Less than high school	386	93.2	323	90.5	7	1.7	2	0.6	12	2.9	11	3.1
High school or GED	482	93.6	415	93.5	11	2.1	10	2.3	15	2.9	10	2.3
Some college or more	810	94.1	797	91.9	23	2.7	37	4.3	25	2.9	15	1.7
ACASI Language												
ACASI in English	1596	94.1	1469	92.5	41	2.4	49	3.1	50	3.0	33	2.1
ACASI in Spanish	84	88.4	70	83.3	0	0.0	0	0.0	2	2.1	3	3.6

Characteristic		Some	ething else			R	efused		Don't know				
	NSFG		NHIS		NSFG		NHIS		NSFG		NHIS		
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Total ¹			33	2.0	14	0.8	13	0.8	5	0.3	2	0.1	
Age at interview													
15-24			11	2.0	5	0.8	2	0.4	3	0.5	1	0.2	
25-49			22	2.0	9	0.8	11	1.0	2	0.2	1	0.1	
Hispanic origin and race													
Hispanic			12	3.2	9	2.1	5	1.4	4	0.9	0	0.0	
Non-Hispanic White			13	1.6	3	0.4	4	0.5	1	0.1	2	0.2	
Non-Hispanic Black			3	1.0	1	0.3	3	1.0	0	0.0	0	0.0	
Education													
Less than high school			13	3.6	6	1.5	7	2	3	0.7	1	0.3	
High school or GED			7	1.6	5	1.0	2	0.5	2	0.4	0	0.0	
Some college or more			13	1.5	3	0.4	4	0.5	0	0.0	1	0.1	
		-											
ACASI Language													
ACASI in English			25	1.6	8	0.5	10	0.6	2	0.1	2	0.1	
ACASI in Spanish			8	9.5	6	6.3	3	3.6	3	3.2	0	0.0	

^{1/}Includes other or multiple race, not show separately.

⁻⁻Not applicable

NOTES: All numbers and percentages shown are unweighted. NSFG is National Survey of Family Growth. NHIS is National Health Interview Survey. Percentages may not add to 100 due to rounding. SOURCE: National Survey of Family Growth preliminary, non-public data files based on interviews conducted September 2015 through March 2017