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RESULTS OF THE PILOT SURVEY OF AN EXPERIMENTAL MODULE OF SEXUAL ACTIVITY QUESTIONS

DHS METHODOLOGICAL REPORTS 8

JULY 2014

This publication was produced for review by the United States Agency for International Development. It was prepared by Joy D. Fishel and Yodit Bekele of ICF International.

DHS Methodological Reports No. 8

Results of the Pilot Survey of an Experimental Module of Sexual Activity Questions

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July 2014

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Acknowledgments: The authors would like to acknowledge the work of Bernard Barrère, Sunita Kishor, and Kia Reinis in developing the instruments that were field tested in the 2013 Haiti Sexual Activity Pilot Survey. We would also like to acknowledge Bernard Barrère, for providing overall guidance on the survey and for reviewing the draft report, and Michelle Busangu, for assisting with coordination and implementation of the survey and leading interviewer training. We acknowledge the staff of the Institute Haïtien de l'Enfance and ICF consultant Elisabeth Metellus for their work in implementing the survey. Finally, we thank Ruilin Ren for designing the sample, Amadou Sow for providing technical assistance on data processing for the survey, and Shawna Kelly for assisting with data analysis.

Editor: Bryant Robey
Document Production: Yuan Cheng

This report was written with support provided by the United States Agency for International Development (USAID) through the MEASURE DHS project (#GPO-C-08-00008-00). The views expressed are those of the authors and do not necessarily reflect the views of USAID or the United States Government.

Recommended citation:

Fishel, Joy D., and Yodit Bekele. 2014. *Results of the Pilot Survey of an Experimental Module of Sexual Activity Questions.* DHS Methodological Reports No. 8. Rockville, Maryland, USA: ICF International.

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Preface

The Demographic and Health Surveys (DHS) Program is one of the principal sources of international data on fertility, family planning, maternal and child health, nutrition, mortality, and HIV/AIDS. The relationship between these indicators and economic status is of utmost importance to researchers and policymakers worldwide.

One of the objectives of The DHS Program is to advance the methodology and procedures used to carry out national-level surveys as well as to offer additional tools for analysis. This will improve the accuracy and depth of information relied on by policymakers and program managers in developing countries.

The topics in the DHS Methodological Reports series are selected by The DHS Program staff in consultation with the U.S. Agency for International Development. While data quality is a main topic of the reports, they also examine issues of sampling, questionnaire comparability, survey procedures, and methodological approaches.

It is hoped that the DHS Methodological Reports series will be useful to researchers, policymakers, and survey specialists, particularly those engaged in work in developing countries.

Sunita Kishor
Director, The DHS Program

Executive Summary

In May and June 2013, the MEASURE DHS Project fielded a pilot survey to test a new module of questions on sexual activity. Based on the idea that there may be some underreporting of sexual activity in DHS surveys, the purpose of the pilot survey was to investigate whether a revision of the standard set of questions on sexual activity would result in improved measurement of key sexual activity indicators. The pilot survey, which was conducted in Haiti, included a reorganized module on marriage and sexual activity (Section 6 of the standard Woman's Questionnaire and Section 4 of the standard Man's Questionnaire). The module included questions similar to those used in the standard DHS questionnaires, but was organized by type of sexual partner, based on the respondent's marital status. In addition, the Man's Questionnaire included a section about sex with commercial sex workers.

The pilot survey, referred to as the 2013 Haiti Sexual Activity Pilot Survey (HSAPS), included 1,793 households in the Aire Métropolitaine and Ouest departments, and interviewed 2,033 women and 1,696 men age 15-49. Results of the HSAPS were compared with the data from the 2012 Haiti DHS (HDHS) for the same departments to determine if the measures of sexual activity obtained with the pilot survey questionnaires differed from those obtained in the 2012 HDHS, which fielded questionnaires incorporating the standard sections on marriage and sexual activity.

The 2013 HSAPS did not find a meaningful or statistically significant difference in the percentage of respondents reporting multiple sexual partners in the previous 12 months, compared with the 2012 HDHS. The percentage of women reporting two or more sexual partners in the 12 months preceding the survey was 3 percent in both surveys. In the 2012 HDHS, 29 percent of men reported two or more sexual partners in the 12 months preceding the survey, compared with 28 percent in the 2013 HSAPS. In addition, the percentage of men reporting paying for sex in the 12 months preceding the survey was 7 percent in both surveys. However, it appears that the design of 2013 HSAPS questionnaires may have captured more sexual activity among young women than the 2012 HDHS did.

The 2012 HDHS Woman's Questionnaire and Man's Questionnaire collect the standard information on relationship to partner, condom use, and dates of first and most recent sex, for up to three sexual partners in the previous 12 months. The 2013 HSAPS questionnaires for women and men collect this same information, but the design of the Man's Questionnaire collects this information for a potentially greater number of the respondent's sexual partners in the past 12 months—all of the respondent's wives, up to three commercial sex workers, and up to three other partners. The 2013 HSAPS Man's Questionnaire also includes a question on the total number of different paid sex partners in the previous 12 months. As a consequence, the distribution of partners by type differs between the two surveys. In the 2013 HSAPS, 8 percent of men's sexual partners in the past 12 months were reported to be commercial sex workers, compared with 2 percent in the 2012 HDHS.

According to these findings, the new sequence of questions on sexual activity piloted in the 2013 HSAPS does not appear to have substantially improved the quality of reporting on sexual behavior. The advantages and disadvantages of adopting the new module must be carefully considered in making a decision about its inclusion in the standard DHS questionnaires.

On the one hand, the HSAPS questionnaires captured some information not available from the standard questionnaires, particularly on paid sex. The field teams expressed favorable views of the re-sequenced module on sexual activity; they observed that the module organized by type of sexual partner was easier for respondents to follow and improved the flow of the interviews. Most male respondents accepted the expanded number of direct questions on paid sex, but a few said that they found these questions offensive.

On the other hand, the process of reorganizing the sexual behavior questions by type of partner proved to be challenging, because the sequencing of the questions needed to accommodate people of any marital status, different numbers of marriages, and various combinations of marital and non-marital sexual partners. While the standard DHS questionnaires accommodate these same situational variations, they avoid complexity by not being specific as to partner type in the questions. The logic of the new module is complex, and ensuring that the system of skips and filters functioned correctly took several rounds of corrections. Adapting this new module to respond to any country-specific needs would be extremely difficult. In addition, the new module took a bit more time to implement compared with the standard set of questions on sexual activity. Any increase in the length of the interview raises concerns in surveys such as the DHS, which are already very large.

In light of the fact that the revised module on sexual behavior does not appear to capture better reporting on the number of recent sexual partners, the DHS Program recommends against adopting the pilot module in the standard questionnaires. The program will continue to explore the feasibility of other approaches to questionnaire design that include more direct questions about paid sex partners in the standard Man's Questionnaire that would not entail a complete reorganization of the section on sexual activity.

1. Introduction

Information on sexual activity is essential for planning and evaluating a range of health programs, including family planning and HIV prevention, and is useful for understanding fertility trends. However, collecting accurate data on sexual activity is challenging. Concerns over the validity of data on sexual activity collected through survey research, including the Demographic and Health Surveys (DHS), AIDS Indicator surveys (AIS), Behavioral Surveillance Surveys (BSS), and similar types of studies are well documented (Blanc and Rutenberg, 1990; Dare and Cleland, 1994; Cleland et al., 2004). Social desirability bias may result in under-reporting of more stigmatized sexual behavior, including paid sex, sex before marriage, and sex with extra-marital partners (Schopper et al., 1993). Differences in reporting of sexual activity by women and men, as well as the notable proportion of couples with discordant HIV status in which the woman is HIV-positive and the man is HIV-negative, have led some researchers to suggest that, overall, women substantially under-report sexual activity (Buve et al., 2001; Curtis and Sutherland, 2004; de Walque, 2007).

In light of these concerns, the DHS Program undertook an effort to develop and test an alternative strategy for collecting data on sexual activity with the goal of improving the quality of reporting. Various methods have been tested to improve the validity of reporting of sexual activity, including audio computer-assisted interviewing, in-depth interviews, key informant interviews, self-completed questionnaires, informal confidential voting interviews, and sexual activity diaries (Gregson et al., 2004; Konings et al., 1995; Mensch et al., 2003; Plummer et al., 2004). Some applications of these methods have found higher levels of reporting of certain sexual behaviors when compared with structured, face-to-face interviews, but none of these methods are feasible to implement in the context of a DHS or AIS survey.

The DHS Program's effort to improve the measurement of sexual activity described in this report entailed redesigning the sections of the individual questionnaire focused on marriage and sexual activity in the DHS standard questionnaires (Section 6 in the Woman's Questionnaire and Section 4 in the Man's Questionnaire). Specifically, the questionnaire redesign aimed to improve two main suspected reporting issues: under-reporting of commercial sex partners by men and under-reporting of non-marital sexual partners by women. The organizing principle for the new set of questions, described in Section 2.1, is to ask directly about different types of partners.

The new questionnaires were developed and reviewed internally and then field-tested in Haiti in May-June 2013. The choice of Haiti for the field test was primarily one of convenience rather than out of any particular concern about the quality of data on sexual activity in that country. A DHS survey completed in Haiti within the previous year could be used for comparison. The field test—the 2013 Haiti Sexual Activity Pilot Survey (HSAPS)—was conducted to examine the performance of the new set of questions on sexual activity and to determine whether it should replace the existing set of questions in the standard DHS and AIS individual questionnaires. The primary indicator used for comparison was the percentage of male and female respondents reporting multiple sexual partners in the past 12 months. Reporting on other indicators, including age at first sex, premarital sex, total number of partners in the past 12 months, and number of lifetime partners was also examined. Feasibility of implementation of the new set of sexual activity questions was another criterion considered in the decision of whether or not to recommend that the DHS Program adopt the new module.

Chapter 2 of this report presents the methodology of the 2013 HSAPS and describes the characteristics of the samples for the 2013 HSAPS and the 2012 Haiti DHS (also known as the Enquête Mortalité, Morbidité et Utilisation des Services, or EMMUS). Chapter 3 compares the findings of the two surveys

on the indicators of sexual activity. Chapter 4 discusses the results of the pilot survey and makes recommendations on whether or not the DHS Program should adopt the revised sexual activity questions.

2. Methodology and Comparison of the Samples: 2012 HDHS and 2013 HSAPS

2.1 2013 HSAPS Questionnaires

The questionnaires used in the 2012 Haiti DHS follow the standard DHS and AIS survey questions on sexual activity (see Appendix G). Women and men who report they have ever had sexual intercourse are asked how long ago they last had sex. They are then asked a series of questions about their relationship to their most recent sexual partner: their partner's age, condom use, and how often they had sex with this partner in the past 12 months. Respondents are then asked whether they had sex with anyone else in the past 12 months. Detailed information is recorded for up to three partners in the past 12 months. The questionnaire is designed to discuss partners in reverse chronological order, regardless of the relationship of each partner to the respondent. Respondents with at least three sex partners in the past 12 months are asked an additional question about the total number of sex partners they had in the past 12 months.

The questionnaires used in the 2013 HSAPS include an experimental set of questions on sexual activity (see Appendix G). The experimental questions are included in revised versions of Section 6 of the HSAPS Woman's Questionnaire and Section 3 of the HSAPS Man's Questionnaire. Rather than asking about sex partners in reverse chronological order, the HSAPS questionnaires ask about partners by type, based on the respondent's current marital status. While the structure and order of the questions differ from the standard questionnaire, the content and wording of specific questions differ as little as possible.

In the HSAPS Woman's Questionnaire, all women are asked how old they were when they first had sexual intercourse, and are then asked about their current marital status. Married women are asked the standard sequence of questions about their husband and age at first marriage. They are then asked how long ago they last had sex with their husband. If they had sex with their husband within the past 12 months, they are asked about condom use, frequency of sex, and how long ago they first had sex with their husband. Next, they are asked whether they had sex with anyone else in the past 12 months, and the detailed questions about condom use, frequency, and first sex are asked for up to two additional partners.

Married women with at least two sex partners other than their husband are asked a question to determine their total number of partners in the past 12 months. Formerly married women are asked questions about their former husband and are then asked how long ago they last had sex with anyone. If they had sex within the past 12 months, they are asked the standard sequence of questions, including their relationship to their last sex partner, age of last sex partner, condom use, frequency of sex, and when they first had sex with that partner. Next, they are asked whether they had sex with anyone else in the past 12 months, and they then proceed through the same sequence of questions as for married women about these other partners. Never-married women who ever had sex are asked how long ago they last had sex with anyone. If they had sex within the past 12 months, they proceed through a sequence of questions similar to those asked of formerly married women about their sexual partners in the past 12 months. In the 2013 HSAPS, all women who ever had sex are asked the same question about lifetime number of sexual partners that is included in the standard DHS questionnaires.

In the HSAPS Man's Questionnaire, all men are asked how old they were when they first had sexual intercourse, and are then asked about their current marital status. Currently married and formerly married men are asked questions about their wife or former wife similar to the questions in the standard questionnaire. All men who have ever had sex are then asked how long ago they last had sex. As in the standard questionnaire, men who say that it has been more than 12 months since they last had sex are skipped to a direct question about whether they paid anyone in exchange for having sexual intercourse in the past 12 months. Married men who had sex with anyone in the past 12 months are asked when they last

had sex with their wife. If the last sex was within the past 12 months, men are asked the standard sequence of questions about condom use, frequency of sex, and how long ago they first had sex with their wife. The same questions are asked about each of the man's wives, if he has more than one.

Never-married and formerly married men who had sex in the past 12 months skip over the questions about wives and are then asked if they had sex with a commercial sex worker in the past 12 months. Men who respond "No" are further asked if they paid anyone in exchange for having sexual intercourse. Men who answer "Yes" to the question about sex with a commercial sex worker in the past 12 months are asked when they last had sex with a sex worker, and asked questions about condom use, how long ago they first had sex with that sex worker, frequency of sexual intercourse with that sex worker in the past 12 months, and whether they had sex with another sex worker in the past 12 months. The same questions are asked about the three most recent sex workers in the past 12 months. The total number of sex workers in the past 12 months is also recorded. Men are then asked if they had sex with anyone else in the past 12 months. Detailed information is recorded for up to three other partners, and then the total number of other partners in the past 12 months is recorded. In the HSAPS, all men who ever had sex are asked the same question about lifetime number of sexual partners as in the standard DHS questionnaires.

Other than the sections on sexual activity, the questionnaires for the 2013 HSAPS were similar to those used in the 2012 HDHS, although the HSAPS excluded numerous questions. The HSAPS Household Questionnaire was restricted to the household roster and household characteristics questions used to construct the wealth index. The Woman's Questionnaire included the sections from the HDHS on background characteristics, reproduction, family planning, and an abbreviated section on HIV knowledge and testing, but excluded the HDHS questionnaire sections on maternal and child health care, vaccination, nutrition, fertility preferences, work, other health issues, and domestic violence. Aside from the section on sexual activity and an abbreviated section on HIV knowledge and testing, the Man's Questionnaire for the HSAPS was the same as the HDHS questionnaire. The HDHS included measurement of the height and weight and anemia testing for children, height and weight measurement and anemia and HIV testing for women, and anemia and HIV testing for men, while the HSAPS included no biomarkers.

2.2 Sample Design

The sample frame for the 2013 HSAPS and the 2012 HDHS was the 2003 Population and Housing Census. The sample for the 2013 HSAPS was not designed to be nationally representative, but rather was designed to include representation from urban and rural areas and to include a number of respondents sufficient to make meaningful comparisons with the sexual activity indicators measured in the 2012 HDHS. The primary indicator used for sample size calculation was multiple partners (i.e., two or more) in the 12 months preceding the survey. The details of the sample design are described in Appendix C.

The sample for the 2013 HSAPS followed the standard two-stage selection process used in DHS surveys. In the first stage, 55 clusters were selected, including 30 clusters in the Aire Métropolitaine (urban)—excluding camps for internally displaced persons (IDP) established in response to the 2010 earthquake—and 25 clusters selected from the rest of the Ouest department (predominantly rural). A detailed household listing was completed in each of these clusters, in May 2013. From the household lists, 33 households were selected in each cluster, for a total sample size of 1,815 households. All women and men age 15-49 who were usual residents of the household or who slept in the household the night before the survey were eligible for interview.

Details of the sample design for the 2012 HDHS can be found in the final report for the survey (Cayemittes et al., 2013). A subsample of all households in the Aire Métropolitaine (excluding IDP camps) and the rest of the Ouest department was used for comparison with the 2013 HSAPS sample. This subsample includes 97 clusters and 2,978 households. In the 2012 HDHS, women age 15-49 in all

households were eligible for interview, while men age 15-59 in two out of three households were eligible for interview. For comparison purposes, the subsample used for analysis in this investigation is restricted to age 15-49, for both women and men.

2.3 Training, Data Collection, and Data Entry

2.3.1 Training

The 2013 HSAPS, like the 2012 HDHS, was implemented by the Institut Haïtien de l'Enfance (IHE). IHE recruited 44 trainees: 34 interviewers (11 men and 23 women) who had previously participated in the 2012 HDHS and were familiar with the DHS questionnaire, and 10 data processors, who attended the field staff training in order to become familiar with the structure and logic of the newly designed questionnaire. The training for interviewers was conducted from 6-10 May 2013 at the IHE headquarters in Port-au-Prince.

Training, which was conducted mainly in Creole and French, included lectures and discussions on the content of the Household, Woman's, and Man's Questionnaires, with a focus on the new section on sexual activity. Interviewers were also given practical training on how to conduct interviews through in-class practice interview sessions and a one-day field practice. A debriefing session was held after the field practice to discuss issues encountered in the field and interviewers were provided with direction.

2.3.2 Data collection and data entry

Six teams conducted the data collection for the 2013 HSAPS. However, due to a lack of experienced DHS interviewers available for the 2013 HSAPS, the number of interviewers varied across teams. Each team was composed of a team leader and interviewers as follows:

- 4 teams with 5 persons (2 men and 3 women);
- 1 team with 4 persons (2 men and 2 women);
- 1 team with 3 persons (1 man and 2 women).

During data collection, team leaders and interviewers were responsible for data quality control, and team leaders were also responsible for fieldwork coordination. Data collection took place from 11 May-17 June 2013.

All questionnaires for the 2013 HSAPS were returned to the IHE headquarters in Port-au-Prince for data processing, which consisted of office editing, data entry, and editing computer-identified errors. A network of 12 computers was installed and tested for the data entry software, and training sessions were conducted on initial editing and data entry. Three staff members were allocated for initial editing and control, eleven staff members for data entry, and two staff members for data entry supervision. Data entry and editing were performed using CSPro software. Data processing began in May 2013 and ended in July 2013.

2.4 Response Rates and Characteristics of the Samples

Table 2.1 shows the response rates for the 2013 HSAPS and the subsample of the 2012 HDHS used for this analysis. In the subsample of the 2012 HDHS, a total of 2,978 households were sampled, of which 2,908 were occupied at the time of the survey and, of these, 2,882 were successfully interviewed, for a response rate of 99 percent. In the interviewed households, 3,653 women age 15-49 were identified as eligible for the individual interview. Completed interviews were obtained for 3,540 women, yielding a

response rate of 97 percent. Of the 2,063 men age 15-49 who were eligible for interview, 1,915 were successfully interviewed, for a response rate of 93 percent.

In the 2013 HSAPS, 1,800 of the 1,816 selected households were occupied. Of these, 1,793 were successfully interviewed, for a response rate of virtually 100 percent. Among women, 2,033 of the 2,066 eligible women were interviewed, for a response rate of 98 percent. Among men, 1,696 of the 1,761 eligible men were interviewed, for a response rate of 96 percent. The response rates for men were slightly higher in the 2013 HSAPS than in the 2012 HDHS, especially in urban areas.

Table 2.1. Results of the household and individual interviews

Number of households, number of interviews, and response rates, according to residence (unweighted)

	2012 HDHS			2013 HSAPS		
	Residence			Residence		
Result	**Urban**	**Rural**	**Total**	**Urban**	**Rural**	**Total**
Household interviews						
Households selected	2,016	962	2,978	1,090	726	1,816
Households occupied	1,963	945	2,908	1,084	716	1,800
Households interviewed	1,940	942	2,882	1,079	714	1,793
Household response rate[1]	98.8	99.7	99.1	99.5	99.7	99.6
Interviews with women age 15-49						
Number of eligible women	2,687	966	3,653	1,387	679	2,066
Number of eligible women interviewed	2,580	960	3,540	1,360	673	2,033
Eligible women response rate[2]	96.0	99.4	96.9	98.1	99.1	98.4
Interviews with men age 15-49						
Number of eligible men	1,516	547	2,063	1,139	622	1,761
Number of eligible men interviewed	1,376	539	1,915	1,093	603	1,696
Eligible men response rate[2]	90.8	98.5	92.8	96.0	96.9	96.3

[1] Households interviewed/households occupied
[2] Respondents interviewed/eligible respondents

Table 2.2 shows the distribution of the household population by age for the two samples. Note that, although men were interviewed in only two in every three households in the 2012 HDHS, the household distribution in Table 2.2 includes the population of all selected households. Although the sample of the 2013 HSAPS was designed to be comparable to the 2012 HDHS, there are some notable differences between the two. Compared with the 2012 HDHS, the 2013 HSAPS has a lower proportion of men age 20-24 (9 percent versus 11 percent). The sample of women age 15-49 in the 2013 HSAPS is slightly older than in the 2012 HDHS, with a lower proportion of women age 15-24 and a higher proportion age 30-40. In the 2013 HSAPS, among both women and men, there is evidence of displacement of household members age 45-49 into the 50-54 age group. None of these differences is great enough to prevent comparison between the two surveys, but should be kept in mind in interpreting some of the results.

Table 2.2. Household population by age and sex

Percent distribution of the de facto household population by five-year age groups, according to sex

	2012 HDHS			2013 HSAPS		
Age	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
<5	12.5	10.5	11.4	13.2	11.7	12.4
5-9	10.6	9.4	10.0	11.4	9.9	10.6
10-14	11.9	11.5	11.7	12.7	10.1	11.3
15-19	10.7	11.8	11.3	10.9	10.8	10.8
20-24	11.1	11.7	11.4	9.1	10.5	9.8
25-29	9.6	9.6	9.6	9.0	9.9	9.5
30-34	7.5	7.3	7.4	7.8	8.7	8.3
35-39	6.0	5.8	5.9	5.8	6.8	6.4
40-44	4.6	4.4	4.5	4.8	4.6	4.7
45-49	3.9	4.1	4.0	3.2	2.9	3.0
50-54	3.0	4.0	3.5	4.2	4.6	4.4
55-59	2.3	3.5	2.9	2.8	2.6	2.7
60-64	2.1	2.3	2.2	1.9	2.7	2.3
65-69	1.7	1.4	1.6	1.6	1.6	1.6
70-74	1.2	1.0	1.1	0.8	1.0	0.9
75-79	0.4	0.7	0.6	0.3	0.7	0.5
80 +	0.7	1.0	0.8	0.7	0.8	0.8
Total	100.0	100.0	100.0	100.0	100,0	100.0
Number	9,653	10,946	20,599	3,506	3,911	7,417

Tables 2.3.1 and 2.3.2 present characteristics of the interviewed respondents. Overall, the characteristics of interviewed women and men in the two surveys are similar. Most observed differences in distributions by background characteristics are within sampling error. Patterns of urban-rural residence, religion, and educational attainment are similar in both surveys. The age distributions among interviewed respondents reflect the differences between the two surveys observed in the household population, as described in the discussion of Table 2.1.

While the distribution of men by marital status is similar between the two surveys, the results show some differences among women (Figures 2.1.1 and 2.1.2). The percentage of women who are never-married in the 2013 HSAPS (41 percent) is significantly higher than the percentage in the 2012 HDHS (37 percent), at $p<0.05$. The percentage of women currently in union is lower in the HSAPS than in the HDHS, but this difference was not statistically significant. Based on the discussions among interviewers during training and observation of fieldwork, these differences are believed to be due more to a difference in how the interviewers classified marital status across the two surveys than an actual difference between the two samples. As will be discussed in Chapter 3, the age at first sexual intercourse is similar for women across the two surveys. For more information about the data collected on marriage, see Appendix Tables A.1.1-A.3.

Table 2.3.1. Comparison of the samples of the 2012 HDHS and 2013 HSAPS: women

Percent distribution of women age 15-49 by selected background characteristics

	2012 HDHS			2013 HSAPS		
Background characteristic	**Weighted percent**	**Weighted number**	**Unweighted number**	**Weighted percent**	**Weighted number**	**Unweighted number**
Age						
15-19	21.7	1,250	772	20.1	409	411
20-24	21.1	1,216	749	19.4	394	389
25-29	17.5	1,007	611	18.1	368	372
30-34	13.5	778	479	15.9	322	325
35-39	10.6	611	377	12.9	262	247
40-44	8.0	462	293	8.3	168	169
45-49	7.6	435	259	5.3	109	119
Religion						
No religion	6.2	357	215	6.6	133	122
Catholic	35.9	2,067	1,262	30.7	624	648
Protestant/Methodist/ Adventist/Jehovah Witness	57.0	3,282	2,036	62.1	1,262	1,249
Voodooist	0.7	38	18	0.5	9	10
Other/Missing	0.3	15	9	0.2	4	4
Marital status						
Never married	36.8	2,120	1,345	40.8	829	827
Ever had sex	18.7	1,077	692	25.7	521	522
Never had sex	18.1	1,044	653	15.2	308	305
In union	53.8	3,100	1,857	50.6	1,029	1,028
Formerly married	9.3	538	338	8.6	174	178
Residence						
Urban	67.4	3,881	2,580	65.6	1,334	1,360
Rural	32.6	1,878	960	34.4	699	673
Department						
Aire Métropolitaine	63.9	3,682	2,361	61.4	1,248	1,245
Reste-Ouest	36.1	2,077	1,179	38.6	785	788
Education						
No education	10.6	613	370	9.2	187	196
Primary	28.7	1,654	1,006	28.2	574	579
Secondary	51.6	2,972	1,822	53.6	1,091	1,067
More than secondary	9.0	520	342	8.9	182	191
Total 15-49	100.0	5,759	3,540	100.0	2,033	2,033

Note: Education categories refer to the highest level of education attended, whether or not that level was completed.

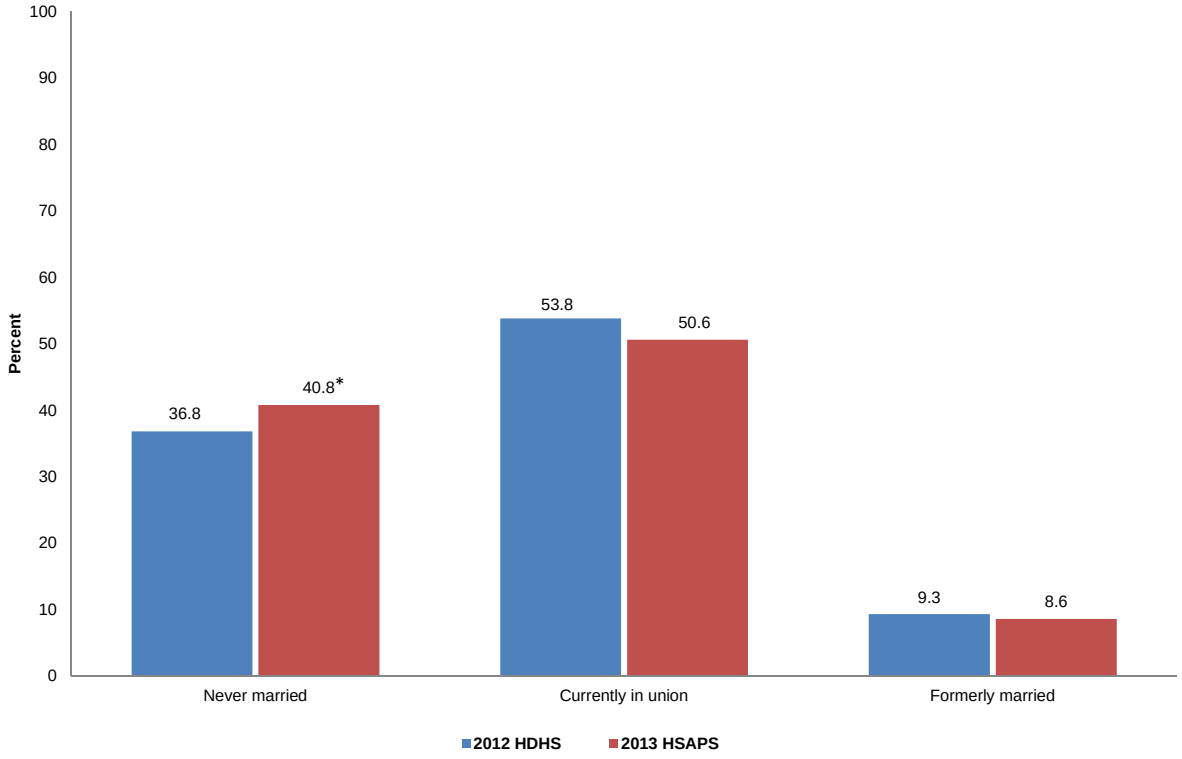
Table 2.3.2. Comparison of the samples of the 2012 HDHS and 2013 HSAPS: men

Percent distribution of men age 15-49 by selected background characteristics

	2012 HDHS			2013 HSAPS		
Background characteristic	**Weighted percent**	**Weighted number**	**Unweighted number**	**Weighted percent**	**Weighted number**	**Unweighted number**
Age						
15-19	21.4	695	413	22.4	381	386
20-24	20.5	666	394	17.5	296	313
25-29	17.2	557	331	18.0	305	308
30-34	13.9	450	255	15.1	256	254
35-39	10.6	346	203	11.2	190	186
40-44	8.9	288	173	9.6	163	139
45-49	7.6	246	146	6.2	106	110
Religion						
No religion	12.5	407	242	11.0	187	185
Catholic	37.1	1,206	688	35.9	609	612
Protestant/Methodist/ Adventist/Jehovah Witness	49.0	1,592	959	51.2	869	864
Voodooist	1.1	37	21	1.0	18	19
Other/Missing	0.2	7	5	0.8	13	16
Marital Status						
Never married	52.1	1,694	1,013	53.7	912	935
Ever had sex	42.9	1,395	828	43.9	744	761
Never had sex	9.2	299	185	9.9	168	174
In union	43.6	1,416	819	42.9	728	700
Formerly married	4.3	139	83	3.3	57	61
Residence						
Urban	68.1	2,214	1,376	62.4	1,059	1093
Rural	31.9	1,035	539	37.6	637	603
Department						
Aire Métropolitaine	64.9	2,108	1,264	58.7	996	1,002
Reste-Ouest	35.1	1,142	651	41.3	700	694
Education						
No education	6.7	217	122	3.8	65	68
Primary	26.7	869	501	23.4	397	416
Secondary	52.8	1,715	1,009	60.2	1,022	999
More than secondary	13.8	449	283	12.5	212	213
Total 15-49	100.0	3,249	1,915	100.0	1,696	1,696

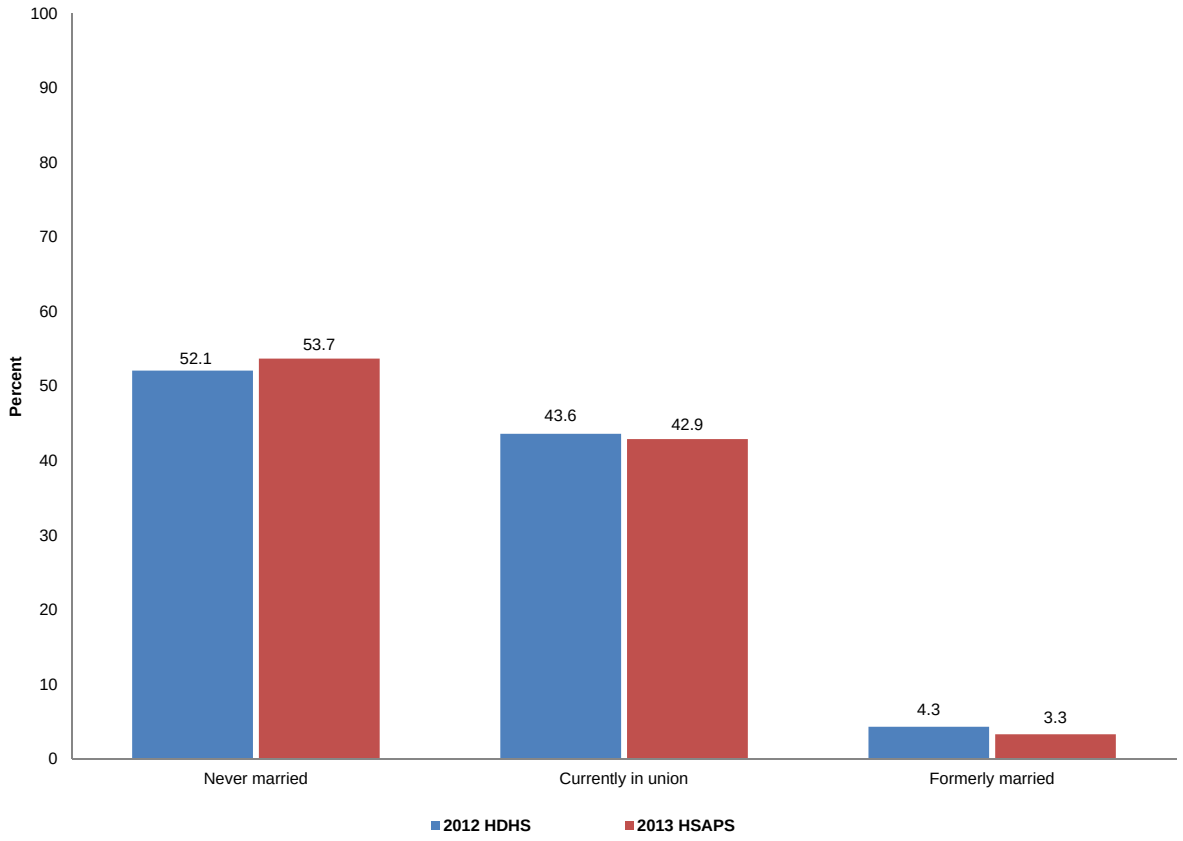
Note: Education categories refer to the highest level of education attended, whether or not that level was completed.

Figure 2.1.1. Current marital status: women



*The percentage of women never married in the 2013 HSAPS is higher than that measured in the 2012 HDHS with statistical significance at $p<0.05$.

Figure 2.1.2. Current marital status: men



Overall, these findings indicate that the samples of the two surveys can be considered comparable, and that differences between the two surveys in sexual activity can be attributed primarily to differences in the two methods for collecting self-reported information on sexual activity. Some caution should be used in interpreting results related to marital status for women, including sexual activity among never-married women, as there appears to be a difference in the classification of marital status between the two surveys.

3. Indicators of Sexual Activity in the 2012 HDHS and the 2013 HSAPS

3.1 Initiation of Sexual Activity

Table 3.1.1, for women, and Table 3.1.2, for men, show results of the 2012 HDHS and 2013 HSAPS on age at first sexual intercourse. Overall, both surveys found similar results for age at first sexual intercourse. The median age at first sexual intercourse for women age 20-49 is 18.3 years in the 2012 HDHS, and 18.2 years in the 2013 HSAPS. The median age at first sexual intercourse for men is 16.2 years in the 2012 HDHS, and 16.4 years in the 2013 HSAPS. Figure 3.1 and Appendix Table A.5 present results on age at first sexual intercourse among youth. The percentage of women age 15-24 who had sexual intercourse by age 15 is similar in both surveys, at 12 percent; however, the percentage of women age 18-24 who had sexual intercourse by age 18 is significantly higher in the 2013 HSAPS, at 57 percent, than in the 2012 HDHS, at 49 percent ($p<0.05$). Although it appears that the percentages of young men having sexual intercourse by age 15 and by age 18 are slightly lower in the HSAPS than in the HDHS, the differences are not statistically significant.

Table 3.1.1. Age at first sexual intercourse: women

Percentage of women age 15-49 who had first sexual intercourse by specific exact ages, percentage who never had sexual intercourse, and median age at first sexual intercourse, according to current age

	Percentage who had first sexual intercourse by exact age:					Percentage who never had sexual intercourse		Median age at first sexual intercourse
Current age	15	18	20	22	25		Number	
2012 HDHS								
15-19	14.2	na	na	na	na	58.5	1,250	a
20-24	10.3	45.3	70.8	na	na	18.0	1,216	18.3
25-29	10.7	47.1	70.2	81.6	91.4	4.8	1,007	18.2
30-34	10.8	46.7	66.8	79.4	88.0	3.4	778	18.2
35-39	11.5	47.5	67.0	78.2	86.3	2.0	611	18.2
40-44	9.2	40.3	62.0	77.4	87.5	0.2	462	18.9
45-49	11.8	43.7	63.1	77.3	85.6	0.7	435	18.6
20-49	10.7	45.6	67.8	na	na	6.9	4,509	18.3
25-49	10.8	45.7	66.7	79.3	88.3	2.8	3,293	18.3
15-24	12.3	na	na	na	na	38.5	2,466	a
2013 HSAPS								
15-19	12.9	na	na	na	na	51.2	409	a
20-24	11.5	55.1	76.5	na	na	16.2	394	17.7
25-29	13.9	49.3	70.7	86.7	92.4	5.5	368	18.1
30-34	11.5	47.0	67.2	78.6	86.9	2.7	322	18.3
35-39	11.2	44.8	62.7	79.9	89.0	1.3	262	18.4
40-44	5.6	39.8	63.1	80.3	90.0	0.9	168	18.7
45-49	9.5	32.9	58.4	74.0	85.2	0.8	109	19.3

(Continued...)

Table 3.1.1. – *Continued*

Current age	Percentage who had first sexual intercourse by exact age: 15	18	20	22	25	Percentage who never had sexual intercourse	Number	Median age at first sexual intercourse
20-49	11.3	47.5	68.5	na	na	6.1	1,624	18.2
25-49	11.2	45.0	65.9	81.1	89.3	2.8	1,229	18.4
15-24	12.2	na	na	na	na	34.0	804	a

na = Not applicable due to censoring

a = Omitted because less than 50 percent of the respondents had sexual intercourse for the first time before reaching the beginning of the age group

Table 3.1.2. Age at first sexual intercourse: men

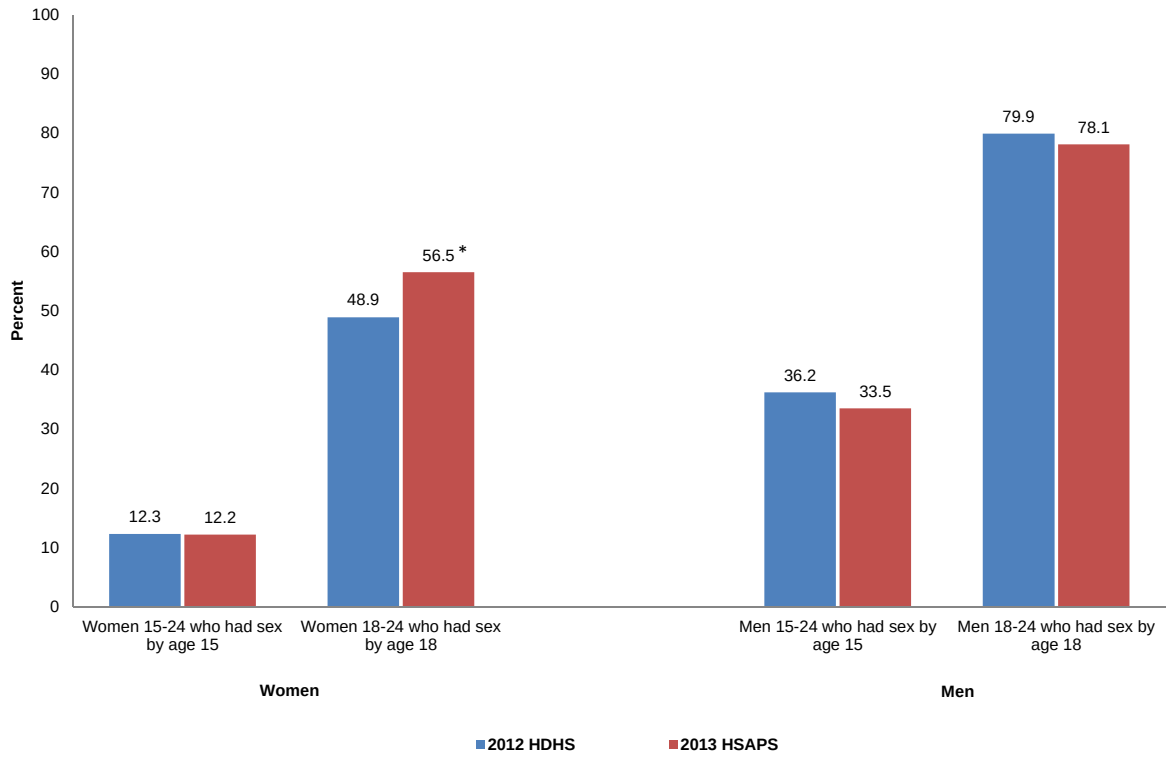
Percentage of men age 15-49 who had first sexual intercourse by specific exact ages, percentage who never had sexual intercourse, and median age at first sexual intercourse, according to current age

Current age	Percentage who had first sexual intercourse by exact age: 15	18	20	22	25	Percentage who never had sexual intercourse	Number	Median age at first sexual intercourse
2012 HDHS								
15-19	37.8	na	na	na	na	34.4	695	a
20-24	34.6	80.0	92.8	na	na	3.2	666	15.9
25-29	31.8	74.7	86.6	91.3	93.8	3.3	557	15.9
30-34	28.0	65.4	80.4	89.0	93.4	0.6	450	16.4
35-39	23.4	66.1	82.2	89.5	92.0	0.6	346	16.5
40-44	25.2	60.7	78.1	89.2	93.8	1.1	288	16.7
45-49	20.0	66.0	83.6	92.6	96.1	0,0	246	16.7
20-49	28.8	70.9	85.3	na	na	1.9	2,554	16.2
25-49	26.8	67.6	82.6	90.3	93.7	1.4	1,888	16.3
2013 HSAPS								
15-19	33.0	na	na	na	na	38.5	381	a
20-24	34.1	77.5	93.4	na	na	4.3	296	15.8
25-29	33.7	74.1	86.9	92.6	95.7	1.9	305	15.9
30-34	28.6	71.1	85.6	93.1	94.9	0.5	256	16.5
35-39	28.9	70.3	84.3	94.9	97.3	0.0	190	16.3
40-44	17.1	54.6	76.5	85.6	94.4	0.0	163	17.7
45-49	24.5	51.7	74.2	85.2	89.5	0.0	106	17.8
20-49	29.3	69.5	85.4	na	na	1.5	1,315	16.4
25-49	27.9	67.2	83.1	91.2	94.9	0.7	1,019	16.6

na = Not applicable due to censoring

a = Omitted because less than 50 percent of the respondents had sexual intercourse for the first time before reaching the beginning of the age group

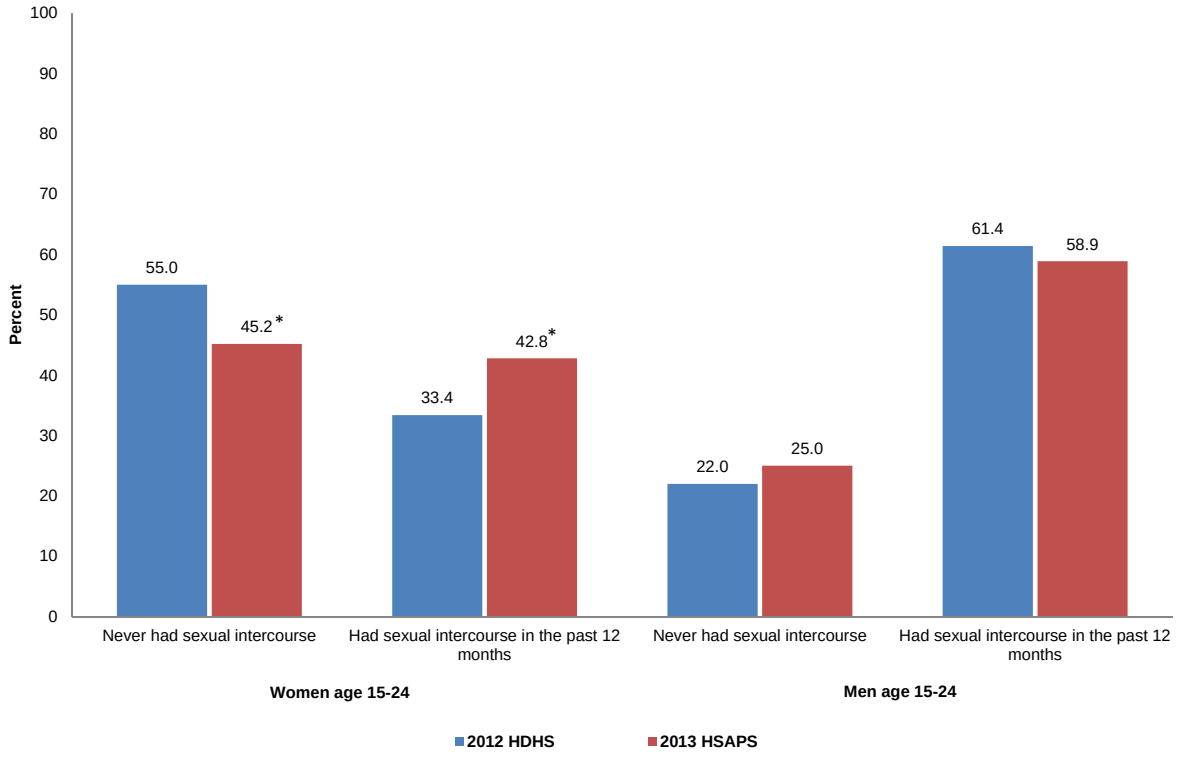
Figure 3.1. Age at first sex among young people



* The percentage of young women who had sex by age 18 in the 2013 HSAPS is higher than that measured in the 2012 HDHS with statistical significance at p< 0.05.

Figure 3.2 and Appendix Table A.6 present the results of the two surveys for premarital sex among young people. The percentage of never-married women age 15-24 who never had sexual intercourse is significantly lower in the 2013 HSAPS than in the 2012 HDHS. Conversely, the percentage of never-married women who reported that they have had sexual intercourse is higher in the HSAPS than in the HDHS. This finding could indicate that the questionnaire design used in the HSAPS elicited better reporting of premarital sex among women. In the HDHS, respondents were asked about their current marital status before being asked about sexual activity. Respondents who said that they had never been married were next asked, “How old were you when you had sexual intercourse for the very first time?” Just having reported to the interviewer that they were unmarried may have influenced some respondents to report that they had never had sex, even though they had. In the HSAPS, respondents were asked about age at first sex before being asked whether they had ever been married. (The questionnaires for both surveys can be found in Appendix G.) However, as mentioned at the end of Section 2.4, the difference in classification of marital status between the two surveys dictates that any findings, such as those on premarital sex, which involve the marital status variable should be interpreted with caution.

Figure 3.2. Premarital sex among young people



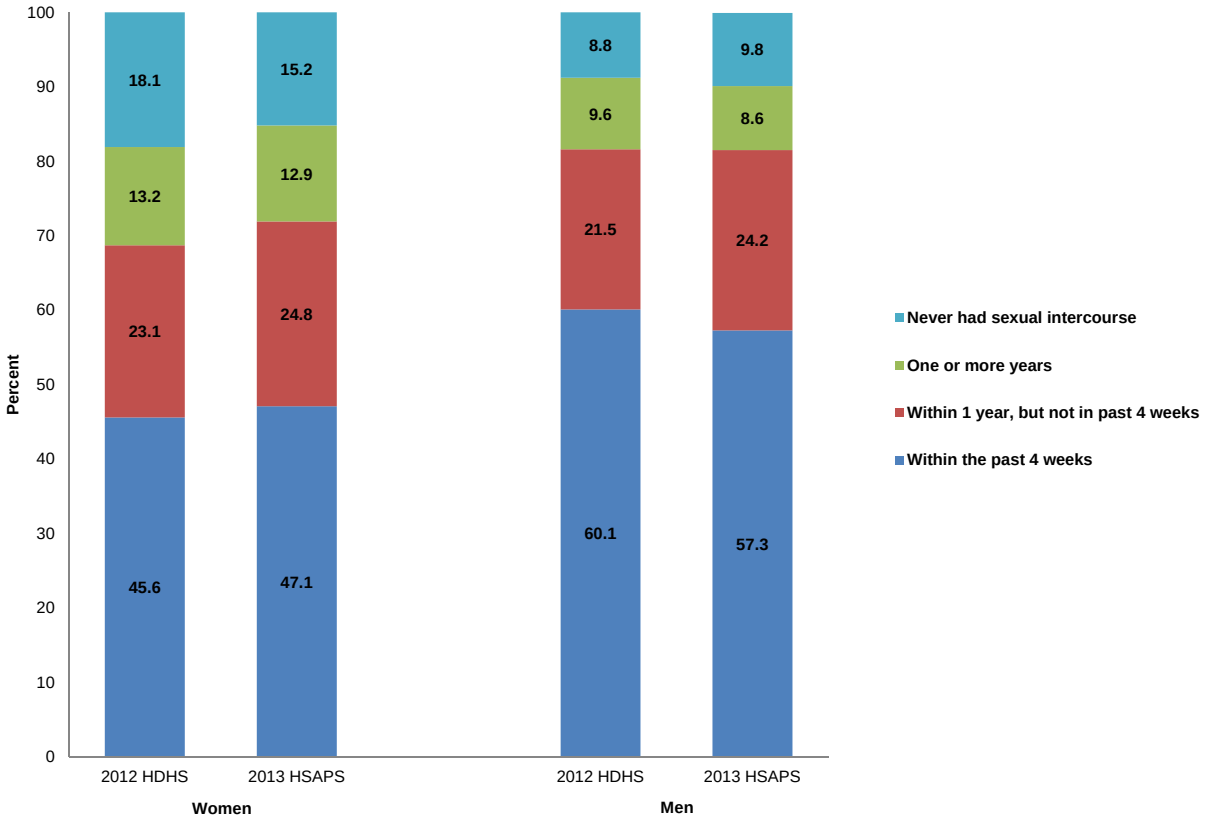
* The percentage of women who never had sex and the percentage who had sex in the past 12 months in the 2013 HSAPS are both different from those measured in the 2012 HDHS with statistical significance at p<0.01.

For example, while the age at first marriage among women age 20-49 was higher in the 2013 HSAPS compared with the 2012 HDHS, the age at first sexual intercourse for this age group was the same in both surveys. Taking these two pieces of information together, one possible interpretation of the results on premarital sexual behavior is that respondents' reporting of their sexual behavior was no different between the two surveys. Rather, sexual activity that was categorized as occurring within union in the HDHS was categorized as occurring before union in the HSAPS, based on the interviewer's classification of the respondent's marital status. Nonetheless, the percentage of women who had sex before age 18 is higher for all women in the HSAPS compared with the HDHS, regardless of marital status. This finding suggests that, despite the difference in classification of marital status, some degree of the increase in reporting of premarital sex can be attributed to the design of the questionnaire for the HSAPS.

3.2 Recent Sexual Activity and Condom Use

Figure 3.3 and Appendix Table A.7 show the distribution of respondents in both surveys by time since last sexual intercourse. In the 2012 HDHS, 46 percent of women reported having sexual intercourse in the four weeks preceding the survey, as did 47 percent of women in the 2013 HSAPS. Around one-quarter of women in both surveys had sexual intercourse in the past year but not in the four weeks preceding the survey. Only 15 percent of women in the HSAPS never had sex, compared with 18 percent of women in the HDHS. Among men, 60 percent of respondents in the HDHS reported having sexual intercourse in the four weeks preceding the survey, compared with 57 percent in the HSAPS. Results for the other categories are similar for the two surveys: 22-24 percent of men had sexual intercourse in the past year but not the past four weeks, 9-10 percent last had sexual intercourse one or more years ago, and 9-10 percent never had sexual intercourse.

Figure 3.3. Recent sexual activity



As mentioned in Chapter 2, the percentage of respondents with two or more sexual partners in the past 12 months was considered a key indicator for comparing the two methodologies of measuring sexual activity. As shown in Table 3.2 and Figure 3.4, the results of the two surveys on this indicator are nearly identical. In both surveys, 3 percent of women and 28-29 percent of men reported having two or more sexual partners in the past 12 months. The small differences observed are not statistically significant. There are also no statistically significant differences between the results of the two surveys on condom use at last sex among respondents who reported multiple partners in the past 12 months. Roughly four in every ten women and half of men with multiple sexual partners reported using a condom at last sex (Figure 3.5).

Table 3.2. Multiple sexual partners

Among all women and men age 15-49, the percentage who had sexual intercourse with more than one sexual partner in the past 12 months; and among those having more than one partner in the past 12 months, the percentage reporting that a condom was used at last intercourse

	All respondents		Among respondents who had 2+ partners in the past 12 months:	
Survey	Percentage who had 2+ partners in the past 12 months	Number of respondents	Percentage who reported using a condom during last sexual intercourse	Number of respondents
Women				
2012 HDHS	2.9	5,759	42.5	167
2013 HSAPS	3.4	2,033	39.7	69
Men				
2012 HDHS	28.5	3,249	45.9	927
2013 HSAPS	27.6	1,696	51.0	468

Figure 3.4. Multiple sexual partners in the past 12 months

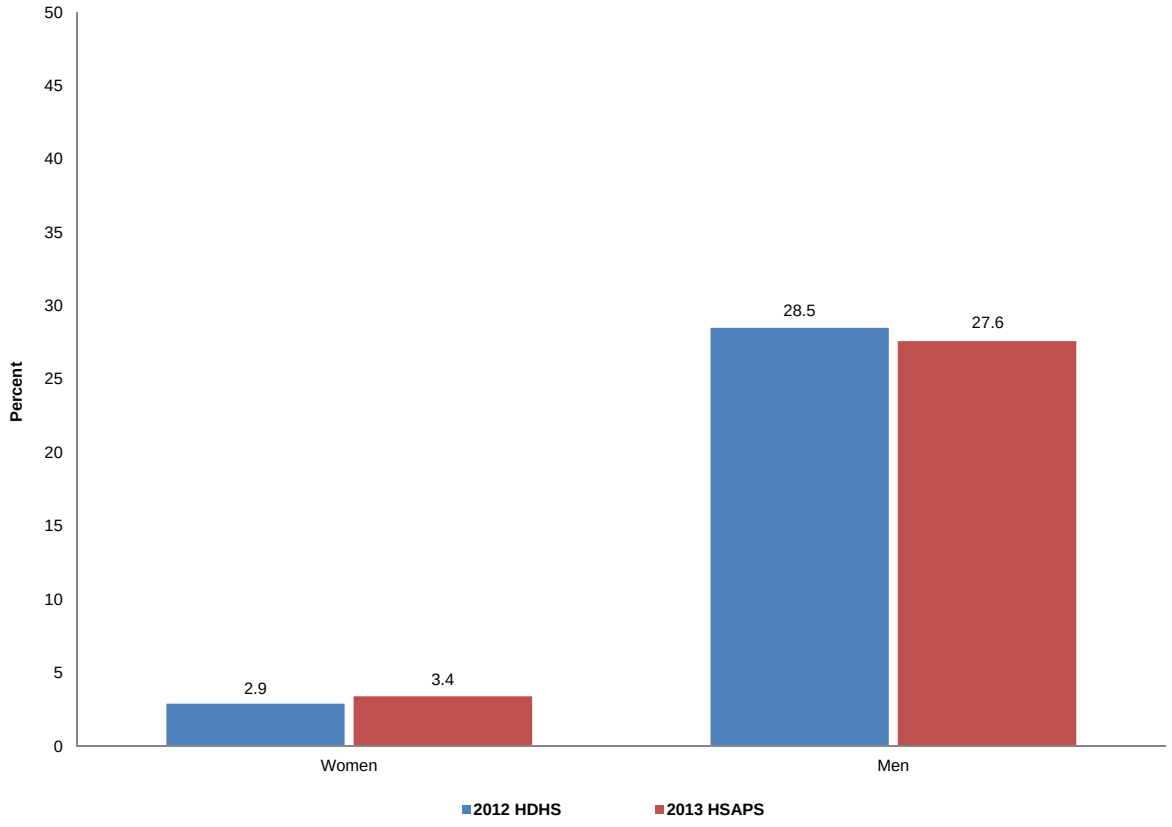


Figure 3.5. Condom use at last intercourse, among those with multiple sexual partners in the past 12 months

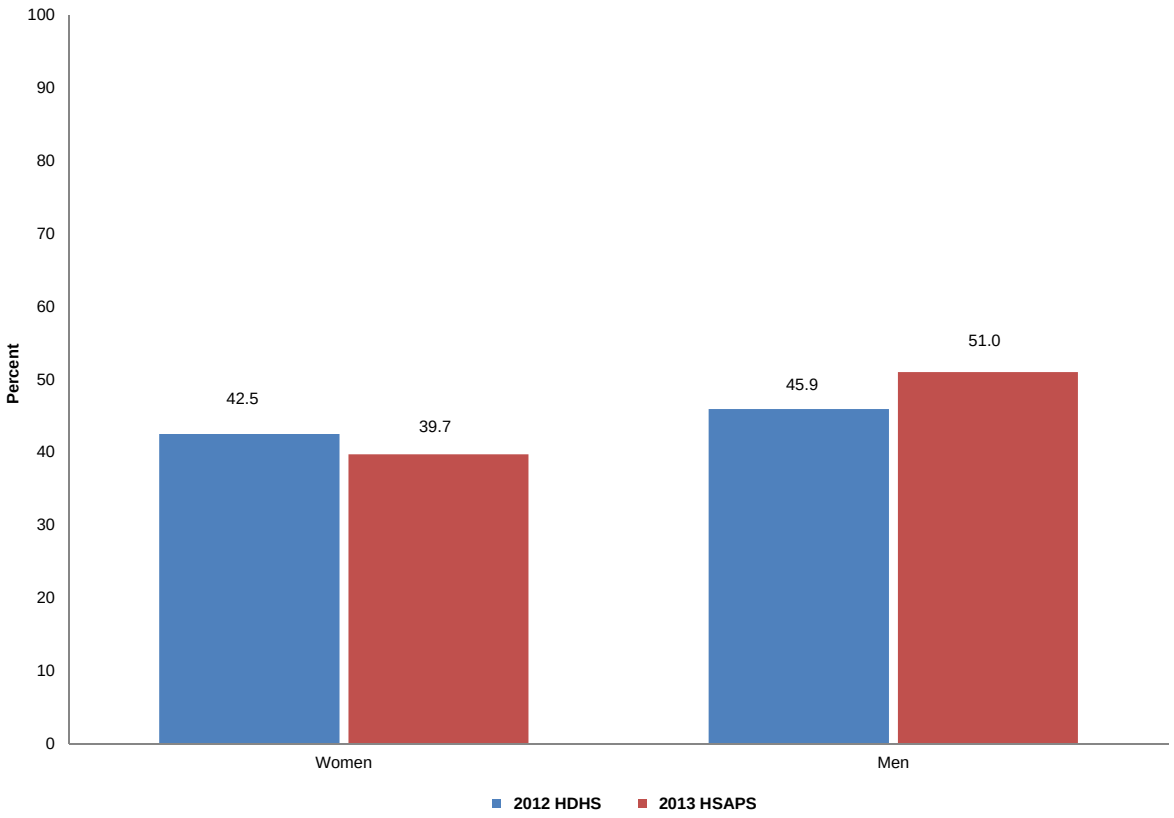


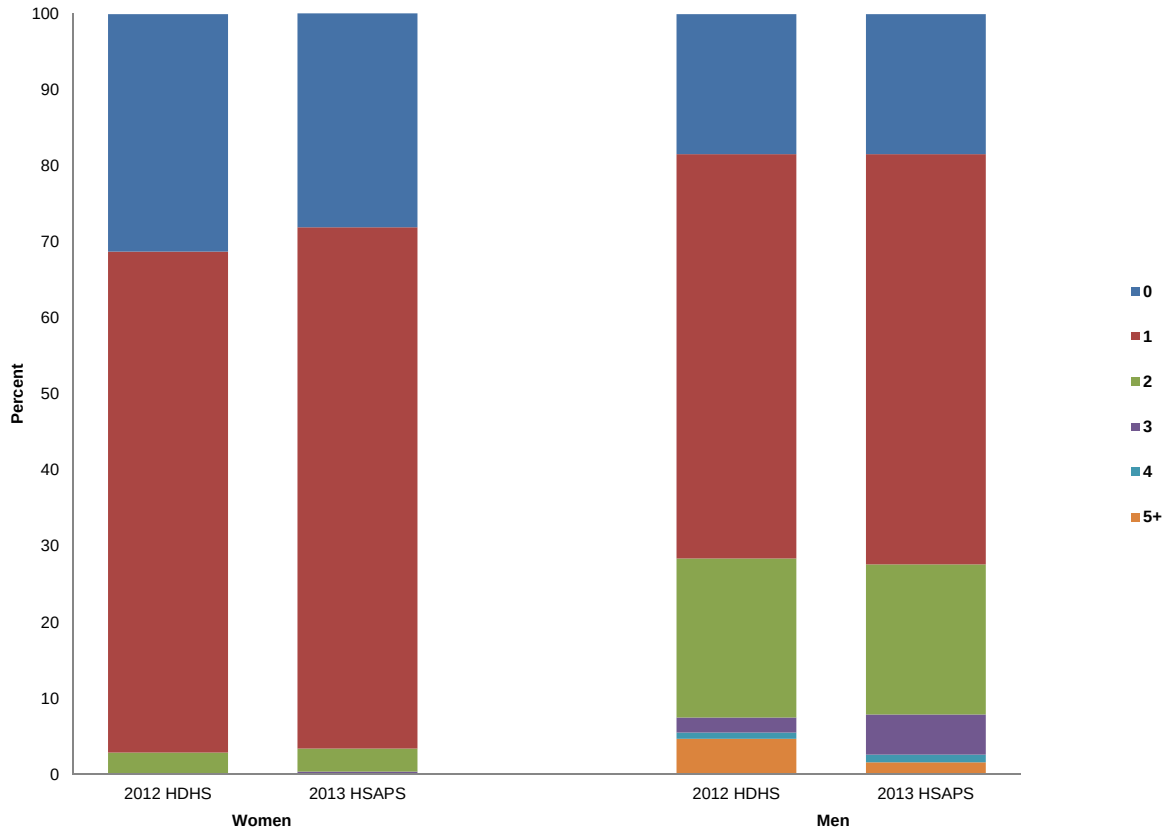
Table 3.3 and Figure 3.6 provide further detail on the number of sexual partners in the past 12 months. Reporting of the number of sexual partners in the past 12 months is similar for women across the two surveys. Very few women in either survey reported three or more sexual partners in the past 12 months. The results for men are a bit more complicated. As noted above, there was no statistically significant difference in the percentage of men reporting two or more sexual partners in the past 12 months. The percentage of men reporting three or more partners in the past 12 months was also similar in both surveys. However, there appear to be more men reporting higher numbers of partners in the 2012 HDHS than in the 2013 HSAPS. For example, the percentage of men reporting five or more sexual partners in the 2012 HDHS (5 percent) is significantly higher than the percentage of men reporting five or more partners in the 2013 HSAPS (2 percent, $p<0.001$).

Table 3.3. Number of sexual partners in the 12 months preceding the survey

Percentage of women and men age 15-49 by number of sexual partners in the 12 months preceding the survey

Survey	Number of sexual partners in the 12 months preceding the survey								Number of respondents
	None	1 or more	2 or more	3 or more	4 or more	5 or more	10 or more	DK/ Missing	
Women									
2012 HDHS	31.2	68.7	2.9	0.2	0.0	0.0	0.0	0.1	5,759
2013 HSAPS	28.1	71.9	3.4	0.4	0.0	0.0	0.0	0.1	2,033
Men									
2012 HDHS	18.4	81.5	28.4	7.5	5.5	4.7	1.9	0.1	3,249
2013 HSAPS	18.4	81.5	27.6	7.9	2.5	1.6	0.5	0.1	1,696

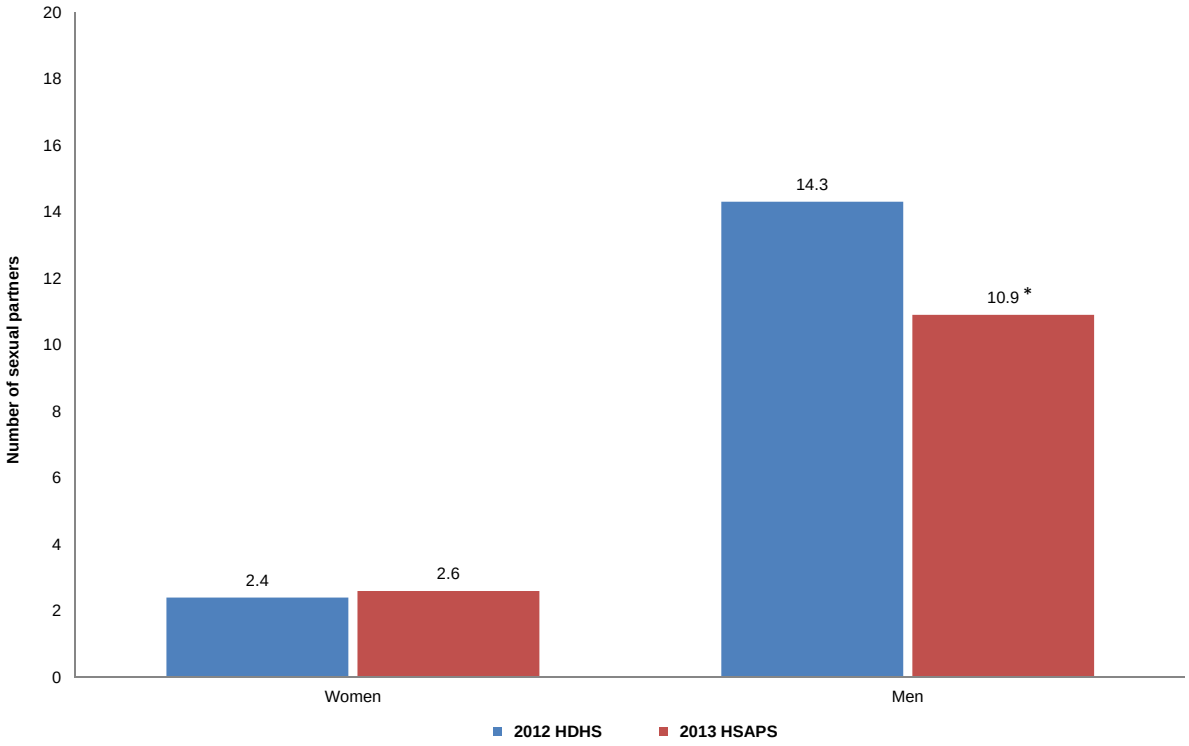
Figure 3.6. Number of sexual partners in the past 12 months



3.3 Lifetime Number of Sexual Partners

Figure 3.7 includes findings on the mean number of lifetime sexual partners in the two surveys. The results for women are similar, at 2.6 lifetime partners in the 2013 HSAPS compared with 2.4 in the 2012 HDHS. However, for men the mean number of lifetime partners is significantly lower in the 2013 HSAPS than in the 2012 HDHS, at 10.9 in the 2013 HSAPS compared with 14.3 in the 2012 HDHS (p<0.01).

Figure 3.7. Mean number of lifetime sexual partners



Note: Mean number of lifetime sexual partners is calculated among respondents who ever had sexual intercourse and who gave a numeric response to the question on number of lifetime sexual partners.
* The mean number of lifetime sexual partners among men is lower in the 2013 HSAPS than in the 2012 HDHS with statistical significance at p<0.01.

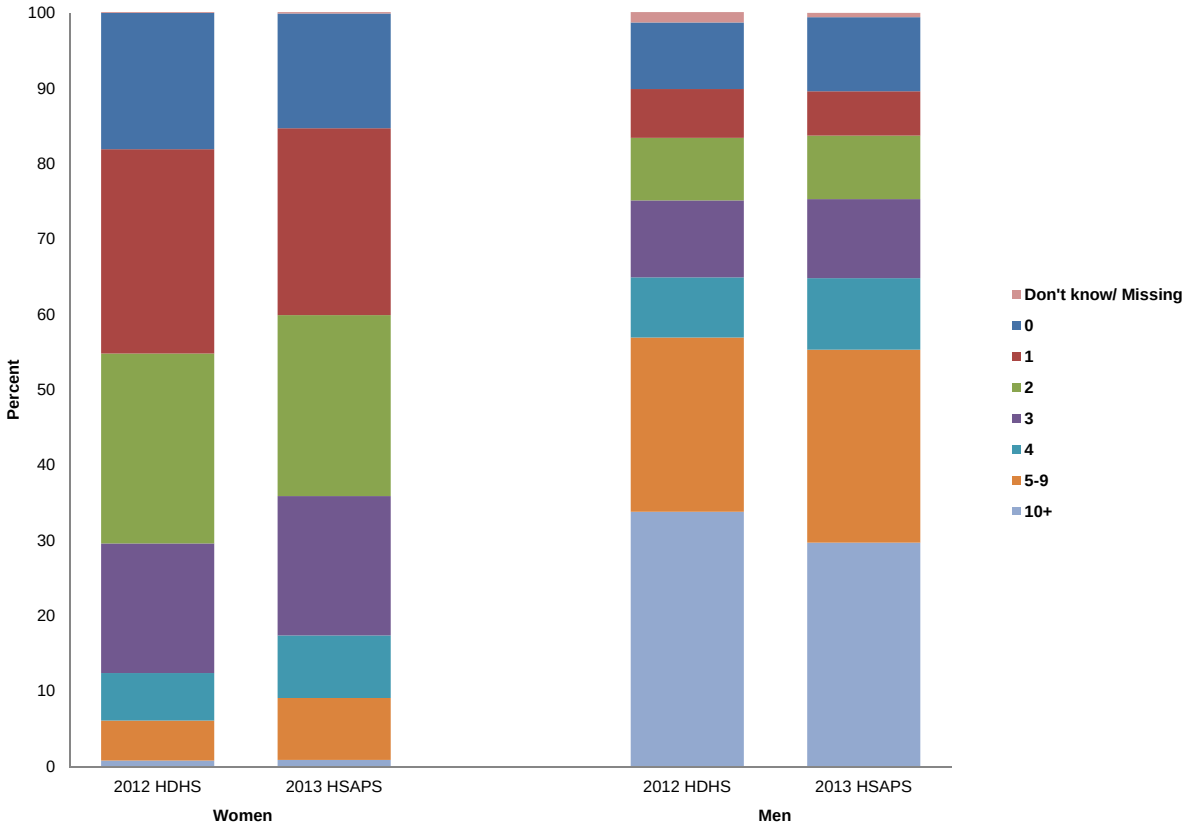
Table 3.4 and Figure 3.8 provide further information on number of lifetime sexual partners. Although for women there is no difference in the mean number of lifetime sexual partners between the two surveys, the percentage of women reporting three or more lifetime sexual partners is significantly higher in the 2013 HSAPS (36 percent) than in the 2012 HDHS (30 percent, p<0.001). In contrast, for men the difference in the mean number of lifetime sexual partners is statistically significant (10.9 in the HSAPS versus 14.3 in the DHS, p<0.01), but the difference in the percentage of men reporting 10 or more lifetime sexual partners between the two surveys is not statistically significant (34 percent versus 30 percent).

Table 3.4. Lifetime number of sexual partners

Percentage of women and men age 15-49 by lifetime number of sexual partners

Survey	Lifetime number of sexual partners								Number of respondents
	None	1 or more	2 or more	3 or more	4 or more	5 or more	10 or more	DK/ Missing	
Women									
2012 HDHS	18.1	81.8	54.7	29.5	12.3	6.0	0.7	0.2	5,759
2013 HSAPS	15.2	84.7	59.9	35.9	17.4	9.1	0.9	0.2	2,033
Men									
2012 HDHS	8.8	89.8	83.3	75.0	64.7	56.8	33.8	1.4	3,249
2013 HSAPS	9.8	89.6	83.7	75.3	64.8	55.3	29.7	0.6	1,696

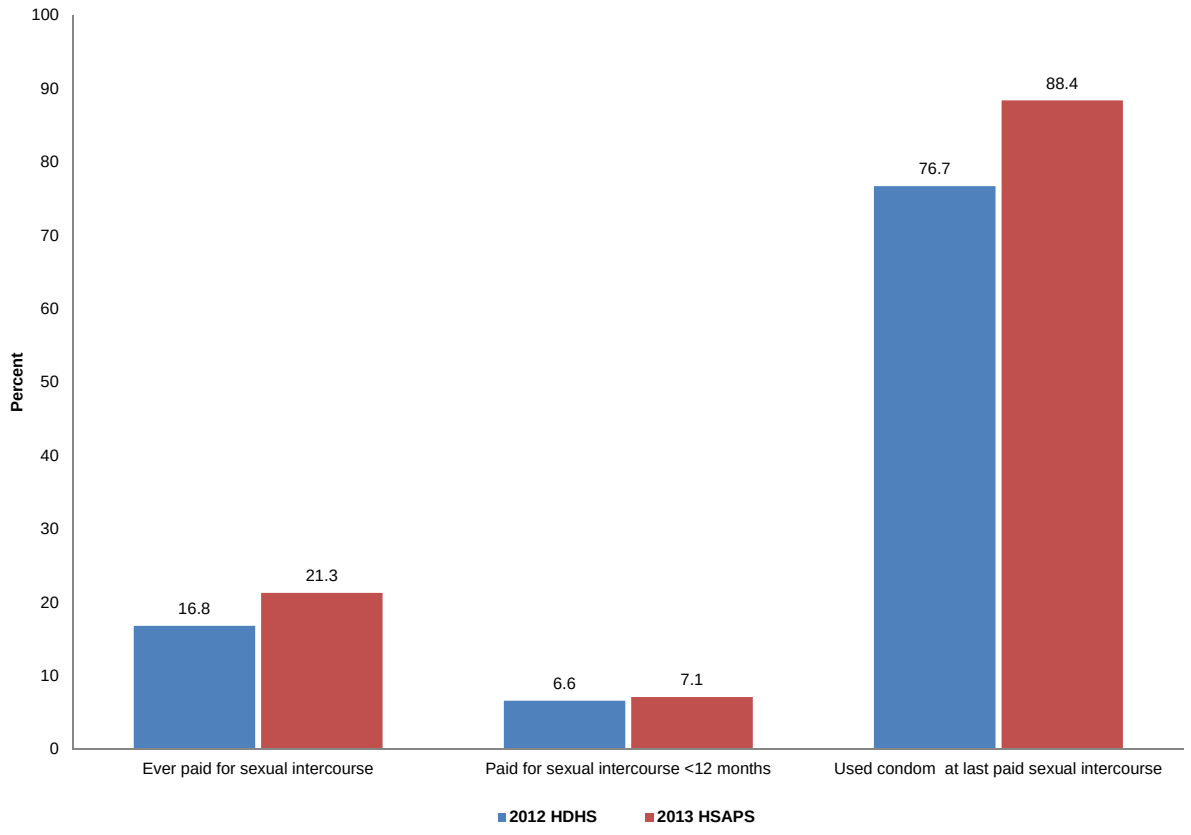
Figure 3.8. Number of lifetime sexual partners



3.4 Paid Sex

One of the underlying assumptions in designing the questionnaire for the 2013 HSAPS was that asking about paid sex partners directly would lead to more complete reporting. Figure 3.9 and Appendix Table A.8 show results of the two surveys on paid sex. Payment for sexual intercourse in the past 12 months was 7 percent in both surveys. Although the 2013 HSAPS appears to have measured a slightly higher percentage of men reporting that they have ever paid for sex (21 percent versus 17 percent), and more frequent condom use at last paid sex among men who paid for sex in the past 12 months (88 percent versus 77 percent), the differences are not statistically significant.

Figure 3.9. Payment for sexual intercourse: men



3.5 Types of Partners

The standard DHS questionnaires for both women and men record detailed information regarding type of partner, for the three most recent sexual partners in the 12 months preceding the survey. For women, the 2013 HSAPS collects detailed information on up to two sexual partners in the past 12 months in addition to the woman's husband (if any), or up to three sexual partners for women who are not currently married. Men in the HSAPS are asked to report detailed information about their wife/all of their wives, up to three paid sex partners, and up to three other (non-spouse, non-paid) sex partners with whom they had sexual intercourse in the past 12 months. The 2013 HSAPS also collects information on the total number of different paid sex partners men have had in the past 12 months, which is not collected in the standard DHS.

Table 3.5 presents a distribution of all sexual partners that respondents reported having in the 12 months preceding the survey by relationship to the respondent, for the 2012 HDHS and the 2013 HSAPS. If the number of partners exceeded the number of columns provided to record detailed information about each partner, then the respondent's relationship to that partner was not collected, and the partner appears in the "Don't know/Missing" column.

For women, the distribution of sexual partners by type is similar in both surveys. Although the percentage of partners that are non-spousal is slightly higher in the 2013 HSAPS, this is related to the percentage of women who are currently in union being lower in the HSAPS compared with the HDHS. Among currently married women, the percentage reporting a sexual partner other than their spouse is 8 percent in the 2012 HDHS and 3 percent in the 2013 HSAPS (data not shown).

Table 3.5. Type of sexual partners

Percent distribution of sexual partners respondents age 15-49 reported having during the 12 months preceding the survey by type of partner

	Type of sexual partner								
Survey	Spouse/ Partner	Boyfriend/ Girlfriend	Friend	Casual acquaint-ance	Client/ Sex worker	Other	DK/ Missing	Total	Number of partners
Women									
2012 HDHS	70.5	28.4	na	0.9	0.1	0.1	0.1	100.0	4,138
2013 HSAPS	67.3	28.1	2.3	1.4	0.2	0.8	0.0	100.0	1,537
Men									
2012 HDHS	29.0	41.7	na	5.4	1.9	0.0	22.0	100.0	4,894
2013 HSAPS	36.6	42.2	5.2	3.0	8.1	0.1	4.8	100.0	2,147

na = not applicable. The category of "friend" was generated by recoding of open-ended responses in the 2013 HSAPS. "Friend" was not a category created during recoding of the 2012 HDHS. There could have been some open-ended responses meeting this criterion in the 2012 HDHS, but no specific category was created for them.

For men, two findings are notable. First, the proportion of sexual partners for which the relationship is not known is much lower in the 2013 HSAPS than in the 2012 HDHS. This is because the 2013 HSAPS questionnaire collects detailed information about a greater number of sexual partners. Second, the percentage of sexual partners that are reported as paid sex partners is higher in the 2013 HSAPS than in the 2012 HDHS (8 percent compared with 2 percent). At first this may seem to contradict the findings in Figure 3.8 showing that the percentage of men who paid for sex in the past 12 months was similar in both surveys. However, it must be noted that Table 3.5 is restricted to information included in the sexual partner history, whereas Figure 3.8 also includes the reports of paid sex coming from a single direct question outside of the sexual partner history in the 2012 HDHS, which asks men whether they paid for sex in the past 12 months. These findings indicate that many more men report having paid for sex when asked directly than self-report that one of their last three sexual partners was a sex worker. By asking about sex workers specifically, the HSAPS is able to collect much more detailed information than the HDHS about paid sex, including condom use during paid sex and the total number of sex workers that men report having in the past 12 months.

4. Conclusions and Recommendations

4.1 Discussion of Results

Overall, the differences in the estimates of sexual behavior indicators between the 2012 HDHS and 2013 HSAPS can be characterized as subtle rather than radical. The most notable finding is that there was no difference in the percentage of respondents who reported having two or more sexual partners in the 12 months preceding the survey. The age at first sex for respondents age 20-49 was similar between the two surveys, although the percentage of young women who reported having had sexual intercourse by age 18, and the percentage of never-married young women who reported ever having had sexual intercourse were both significantly higher in the 2013 HSAPS than in the 2012 HDHS. Although apparent differences in the classification of marital status between the two surveys complicate comparisons on the premarital sex indicator, placing the question on sexual activity before the question on marital status in the 2013 HSAPS may have produced more accurate reporting of premarital sex among young women.

The percentage of men reporting five or more partners in the past 12 months was significantly lower in the 2013 HSAPS than in the 2012 HDHS. Some nuanced differences were observed in the reporting of lifetime number of sexual partners. For women, although there was no statistically significant difference in the mean number of lifetime sexual partners between the two surveys, the percentage with three or more lifetime partners was higher in the 2013 HSAPS. For men, however, there was a significant difference in the mean number of lifetime partners (it was lower in the 2013 HSAPS), but not in the percentage of men with 10 or more lifetime sexual partners.

The 2012 HDHS questionnaire collected detailed information, such as relationship to partner, condom use, and dates of first and most recent sex, for up to three sexual partners in the past 12 months. With the design of the 2013 HSAPS questionnaire, it was possible to collect this same information for a greater number of the respondents' sexual partners in the past 12 months, especially in the Man's Questionnaire, which included a section of direct questions about sexual intercourse with commercial sex workers. The 2012 HDHS questionnaires captured information on type of partner for only 78 percent of male respondents' sexual partners in the 12 months preceding the survey, compared with 95 percent in the 2013 HSAPS.

The percentage of men who reported paying for sex in the past 12 months was 7 percent in both surveys. However, in the 2013 HSAPS, 8 percent of men's sexual partners in the 12 months preceding the survey were reported as commercial sex workers, compared with 2 percent in the 2012 HDHS. The additional information collected in the new module on the total number of paid sex partners in the past 12 months and condom use with the three most recent paid sex partners could add to the understanding of a country's HIV epidemic and assist in measuring the impact of the national response. Although we did not attempt to calculate the partner concurrency indicators with the new section on sexual activity in the 2013 HSAPS, it is safe to assume that having information about the timing of relationships for a greater number of partners could increase the percentage of sexual partnerships found to be concurrent.

4.2 Discussion of Issues of Feasibility

Other issues to consider in assessing the new module on sexual activity for inclusion in the standard DHS questionnaire include the following:

1) How easy or difficult was it to develop the modules, and how easy or difficult it is likely to be to make country specific adjustments to the standard questionnaires when needed?
2) How easy or difficult was the training to teach interviewers to administer the questionnaires?

3) How well did respondents appear to understand the questions, how did the interview flow, and how did respondents react to sensitive questions?

Reorganizing the section of the questionnaire on sexual activity by type of partner turned out to be much more technically challenging than anticipated. It was difficult to account for all possible marital states, number of marriages, and combinations of different numbers and types of non-marital sexual partners, and to insure they would be handled correctly. As a result, the pattern of skips and filters became extremely complex. Even after the input of several DHS staff with extensive experience with questionnaire design, several problems were identified at the stage of programming the data entry application, interviewer training, and even during fieldwork that had not been caught earlier in the process. Due to the complexity of the skip patterns, making country-specific adjustments to these sections would be very challenging, and mistakes in the skip patterns could affect the survey's ability to report on sexual activity indicators of international importance.

The interviewers had favorable opinions of the redesigned section. Male and female interviewers reported that it was clearer to the respondents to discuss their various sexual partners by type, and this improved the flow of the interview. The interviewers did not find the skips too difficult to learn, although they did say that it helped to have been familiar with the 2012 HDHS questionnaires. Male interviewers reported that most male respondents were not offended by being asked direct questions about paid sexual intercourse. Many respondents seemed to anticipate these types of questions and were not surprised to hear them. Some respondents, however, including respondents who identified themselves as highly religious, were offended by the questions on paid sexual intercourse and were uncomfortable discussing the subject. Male interviewers also estimated that the redesigned module of sexual activity questions added roughly 10 minutes to the length of the interview. Although the interviewers themselves did not see this as a big problem, any change which lengthens an interview in surveys such as the DHS, which are already extremely large, must be carefully considered.

The interviewers also noted several issues with the questionnaires. Both male and female interviewers did not like asking the question on sexual activity before the question on marital status. The interview did not flow well when respondents who had never had sex were then asked about their marital status. In the Haitian context, it did not make sense to ask someone who never had sex whether or not they were married.

4.3 Recommendations

Based on the findings of this pilot survey, we do not believe that it would be advisable to adopt the redesigned section on sexual activity in the standard DHS questionnaires. Overall, the two surveys measured similar numbers of sexual partners in the past 12 months. The new set of questions does not appear to have captured a notable number of sexual partners that had been under-reported using the standard questionnaires.

The new questions provide some useful information regarding paid sex partners, and may also improve the reporting of premarital sex among young women. In addition, the new module appears to work well in interviews. However, because the quality of data appears to be similar on the key indicator of multiple partners in the 12 months preceding the survey, these potential benefits must be considered in light of several disadvantages of implementing the new module.

First, we have concerns about the complexity of the logic of the redesigned section on sexual activity and fear that the layers of skips and filters introduce a serious risk for mistakes in questionnaire design during the country adaptation process. By being neutral with regard to partner type, the current DHS partner table is cleaner and more efficient.

Second, this new way of asking about sexual activity may produce some results that are not comparable to earlier estimates. If there were strong evidence that the revised module produced better data, this would not be a significant concern. However, in the absence of strong evidence that the new method improves reporting on sexual activity across key indicators, we are concerned that adopting the new module could disrupt the measurement of trends without providing the desired improvement in data quality in return.

Finally, although the reorganized module on sexual activity with its detailed set of questions about sexual intercourse with commercial sex workers was generally accepted in Haiti, it may not be so well accepted in more conservative cultures with greater restrictions around open discussion of sex. The additional information collected on sexual intercourse with commercial sex workers may be the most valuable addition from the redesigned set of sexual activity questions. The feasibility of alternative questionnaire design approaches allowing for more detailed questions on paid sex partners, without completely restructuring the section of the questionnaire on sexual activity, should be considered.

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Appendix A. Additional Tables

Table A.1.1. Current marital status: women

Percent distribution of women age 15-49 by current marital status, according to age, Haiti

Age	Marital status								Total	Percentage of respond-ents currently in union	Number of respond-ents
	Never married	Married	Placée[1]	Vivavèk[1]	Living together	Wid-owed	Divorced	Sepa-rated			
2012 HDHS											
15-19	85.4	0.8	5.9	2.8	3.7	0.0	0.1	1.2	100.0	13.3	1,250
20-24	54.4	5.9	17.9	9.9	7.2	0.0	0.1	4.6	100.0	40.9	1,216
25-29	25.1	19.6	28.6	13.6	4.3	0.9	0.1	7.8	100.0	66.1	1,007
30-34	12.1	24.3	32.8	14.0	6.0	2.0	0.2	8.7	100.0	77.0	778
35-39	4.7	31.3	36.7	13.3	2.7	2.2	0.4	8.7	100.0	84.0	611
40-44	1.6	31.6	33.0	9.1	2.8	5.7	0.6	15.7	100.0	76.5	462
45-49	1.9	33.9	26.5	4.7	4.9	5.5	0.7	21.8	100.0	70.1	435
Total 15-49	36.8	16.6	23.0	9.5	4.8	1.5	0.2	7.6	100.0	53.8	5,759
2013 HSAPS											
15-19	91.6	1.2	4.2	1.7	0.6	0.2	0.0	0.5	100.0	7.7	409
20-24	58.2	3.9	22.6	10.7	0.0	0.4	0.0	4.2	100.0	37.2	394
25-29	34.6	13.9	36.4	8.8	0.2	0.0	1.1	5.1	100.0	59.3	368
30-34	16.2	26.1	37.1	10.5	0.0	1.9	0.0	8.1	100.0	73.7	322
35-39	11.1	31.3	36.1	7.8	0.0	1.6	0.0	12.1	100.0	75.2	262
40-44	4.5	37.2	34.1	5.6	0.0	5.6	0.0	13.0	100.0	76.9	168
45-49	8.3	36.8	24.2	2.1	0.0	7.2	0.8	20.5	100.0	63.2	109
Total 15-49	40.8	16.7	26.5	7.3	0.2	1.5	0.2	6.9	100.0	50.6	2 033

[1] Placée and vivavèk are forms of marital status specific to Haiti. Placée indicates that a woman and man live together, but are not formally married. Vivavèk indicates a long-term, stable relationship in which a woman and man do not live together regularly, and the man may be married to another woman. Those with marital status of placée or vivavèk are considered to be “in union”.

Table A.1.2. Current marital status: men

Percent distribution of men age 15-49 by current marital status, according to age, Haiti

	Marital status										
Age	Never married	Married	Placée[1]	Vivavèk[1]	Living together	Wid-owed	Divorced	Sepa-rated	Total	Percentage of respond-ents currently in union	Number of respond-ents
2012 HDHS											
15-19	97.5	0.0	0.8	0.7	0.5	0.0	0.0	0.6	100.0	1.9	695
20-24	81.7	1.2	6.3	3.9	4.1	0.0	0.0	2.8	100.0	15.5	666
25-29	54.0	8.0	24.0	3.4	6.3	0.1	0.2	4.0	100.0	41.6	557
30-34	26.6	25.2	32.3	4.8	5.1	0.9	0.0	5.1	100.0	67.4	450
35-39	10.8	34.6	39.9	6.3	3.0	0.0	0.0	5.5	100.0	83.7	346
40-44	3.0	36.2	43.8	5.9	2.3	1.5	0.4	7.0	100.0	88.1	288
45-49	2.5	39.4	44.6	3.5	2.0	0.8	0.0	7.2	100.0	89.5	246
Total 15-49	52.1	15.0	21.6	3.7	3.4	0.3	0.1	3.9	100.0	43.6	3,249
2013 HSAPS											
15-19	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	381
20-24	86.9	0.5	8.9	3.0	0.0	0.0	0.0	0.7	100.0	12.4	296
25-29	58.1	8.2	27.9	5.0	0.0	0.0	0.0	0.8	100.0	41.1	305
30-34	25.5	18.0	47.1	3.7	0.0	0.4	0.0	5.3	100.0	68.8	256
35-39	13.5	32.6	43.7	1.3	0.0	0.9	0.0	8.0	100.0	77.6	190
40-44	2.0	47.8	39.5	2.4	0.0	0.8	1.1	6.4	100.0	89.7	163
45-49	2.3	46.4	42.3	2.3	0.0	1.0	0.0	5.8	100.0	91.0	106
Total 15-49	53.7	15.4	25.0	2.5	0.0	0.3	0.1	2.9	100.0	42.9	1,696

[1] Placée and vivavèk are forms of marital status specific to Haiti. Placée indicates that a woman and man live together, but are not formally married. Vivavèk indicates a long-term, stable relationship in which a woman and man do not live together regularly, and the man may be married to another woman. Those with marital status of placée or vivavèk are considered to be “in union”.

Table A.2.1. Age at first marriage: women

Percentage of women age 15-49 who were first married by specific exact ages, and median age at first marriage, according to current age

	Percentage first married by exact age:					Percentage never married	Number of respondents	Median age at first marriage
Current age	15	18	20	22	25			
2012 HDHS								
15-19	3.4	na	na	na	na	85.4	1,250	a
20-24	2.8	16.3	30.1	na	na	54.4	1,216	a
25-29	4.0	20.9	34.9	47.4	64.2	25.1	1,007	22.5
30-34	2.2	19.0	33.3	44.2	59.4	12.1	778	23.0
35-39	4.3	20.8	33.4	48.5	66.5	4.7	611	22.2
40-44	2.2	16.6	38.0	49.7	66.4	1.6	462	22.1
45-49	3.7	22.5	37.8	53.8	70.9	1.9	435	21.3
20-49	3.2	19.0	33.7	na	na	23.3	4,509	a
25-49	3.3	20.0	35.1	48.0	64.7	11.9	3,293	22.3
2013 HSAPS								
15-19	0.4	na	na	na	na	91.6	409	a
20-24	2.0	13.0	23.8	na	na	58.2	394	a
25-29	1.5	10.5	20.7	35.7	52.8	34.6	368	24.6
30-34	1.0	10.7	23.5	35.9	52.9	16.2	322	24.4
35-39	1.4	13.1	26.4	41.4	59.3	11.1	262	23.3
40-44	1.9	8.3	15.2	32.9	56.3	4.5	168	24.2
45-49	2.1	8.8	22.4	36.3	55.8	8.3	109	23.8
20-49	1.6	11.2	22.5	na	na	28.0	1,624	a
25-49	1.5	10.6	22.0	36.6	55.0	18.3	1,229	24.1

Note: The age at first marriage is defined as the age at which the respondent began living with her first spouse/partner

na = Not applicable due to censoring

a = Omitted because less than 50 percent of the women began living with their spouse or partner for the first time before reaching the beginning of the age group

Table A.2.2. Age at first marriage: men

Percentage of men age 15-49 who were first married by specific exact ages, and median age at first marriage, according to current age

Current age	Percentage first married by exact age: 15	18	20	22	25	Percentage never married	Number of respondents	Median age at first marriage
2012 HDHS								
15-19	0.0	na	na	na	na	97.5	695	a
20-24	0.0	3.5	9.2	na	na	81.7	666	a
25-29	0.4	3.3	6.8	17.1	29.9	54.0	557	a
30-34	0.0	2.9	6.0	16.6	32.3	26.6	450	27.8
35-39	0.0	1.9	7.8	18.0	32.9	10.8	346	28.3
40-44	0.0	4.0	11.9	21.1	35.9	3.0	288	27.0
45-49	0.0	3.5	10.5	19.9	31.1	2.5	246	26.9
20-49	0.1	3.2	8.4	na	na	39.8	2,554	a
25-49	0.1	3.1	8.1	18.1	32.1	25.0	1,888	a
2013 HSAPS								
15-19	0.0	na	na	na	na	100.0	381	a
20-24	0.0	1.7	5.1	na	na	86.9	296	a
25-29	0.0	1.8	6.2	13.5	26.2	58.1	305	a
30-34	0.0	2.2	7.6	15.1	29.1	25.5	256	27.7
35-39	0.0	0.8	5.8	12.4	31.6	13.5	190	27.8
40-44	0.6	4.5	6.8	14.4	29.6	2.0	163	27.7
45-49	0.0	0.8	5.1	13.4	30.3	2.3	106	28.3
20-49	0.1	1.9	6.2	na	na	40.4	1,315	a
25-49	0.1	2.0	6.5	13.8	28.9	26.8	1,019	a

Note: The age at first marriage is defined as the age at which the respondent began living with his first spouse/partner

na = Not applicable due to censoring

a = Omitted because less than 50 percent of the men began living with their spouse or partner for the first time before reaching the beginning of the age group

Table A.3. Number of men's wives

Percent distribution of currently married men age 15-49 by number of wives

Survey	Number of wives 1	2+	DK	Total	Number of men
2012 HDHS	94.1	5.9	0.0	100.0	1,416
2013 HSAPS	94.1	5.5	0.4	100.0	728

Table A.4. Current fertility

Age-specific and total fertility rates, the general fertility rate, and the crude birth rate for the three years preceding the survey

Age group	2012 HDHS	2013 HSAPS
15-19	57	49
20-24	123	102
25-29	136	133
30-34	135	158
35-39	116	99
40-44	46	48
45-49	8	0
TFR (15-49)	3.1	2.9
GFR	104	102
CBR	28.2	27.3

Notes: Age-specific fertility rates are per 1,000 women. Rates for age group 45-49 may be slightly biased due to truncation. Rates are for the period 1-36 months preceding interview.

TFR: Total fertility rate expressed per woman

GFR: General fertility rate expressed per 1,000 women age 15-44

CBR: Crude birth rate expressed per 1,000 population

Table A.5. Age at first sexual intercourse among young people

Percentage of young women and young men age 15-24 who had sexual intercourse before age 15 and percentage of young women and young men age 18-24 who had sexual intercourse before age 18

	Women age 15-24		Women age 18-24		Men age 15-24		Men age 18-24	
Survey	Percentage who had sexual intercourse before age 15	Number of women	Percentage who had sexual intercourse before age 18	Number of women	Percentage who had sexual intercourse before age 15	Number of men	Percentage who had sexual intercourse before age 18	Number of men
2012 HDHS	12.3	2,466	48.9	1,697	36.2	1,361	79.9	974
2013 HSAPS	12.2	804	56.5	563	33.5	677	78.1	455

Table A.6. Premarital sexual intercourse and condom use during premarital sexual intercourse among young people

Among never-married women and men age 15-24, the percentage who have never had sexual intercourse, the percentage who had sexual intercourse in the past 12 months, and, among those who had premarital sexual intercourse in the past 12 months, the percentage who used a condom at the last sexual intercourse

	Never-married women age 15-24					Never-married men age 15-24				
				Women who had sexual intercourse in the past 12 months					Men who had sexual intercourse in the past 12 months	
Survey	Percentage who have never had sexual intercourse	Percentage who had sexual intercourse in the past 12 months	Number of never-married women	Percentage who used a condom at last sexual intercourse	Number of women	Percentage who have never had sexual inter-course	Percentage who had sexual intercourse in the past 12 months	Number of never-married men	Percentage who used a condom at last sexual inter-course	Number of men
2012 HDHS	55.0	33.4	1,729	57.5	578	22.0	61.4	1,221	69.5	750
2013 HSAPS	45.2	42.8	604	59.8	258	25.0	58.9	638	74.7	376

Table A.7. Recent sexual activity

Percent distribution of women and men age 15-49 by timing of last sexual intercourse

	Timing of last sexual intercourse						
Survey	Within the past 4 weeks	Within 1 year[1]	One or more years	Missing	Never had sexual intercourse	Total	Number of respondents
Women							
2012 HDHS	45.6	23.1	13.2	0.1	18.1	100.0	5,759
2013 HSAPS	47.1	24.8	12.9	0.1	15.2	100.0	2,033
Men							
2012 HDHS	60.1	21.5	9.6	0.0	8.8	100.0	3,249
2013 HSAPS	57.3	24.2	8.6	0.1	9.8	100.0	1,696

[1] Excludes women/men who had sexual intercourse within the past 4 weeks

Table A.8. Payment for sexual intercourse and condom use at last paid sexual intercourse

Percentage of men age 15-49 who ever paid for sexual intercourse and percentage reporting payment for sexual intercourse in the past 12 months, and among them, the percentage reporting that a condom was used the last time they paid for sexual intercourse

	Among all men:			Among men who paid for sexual intercourse in the past 12 months:	
Survey	Percentage who ever paid for sexual intercourse	Percentage who paid for sexual intercourse in the past 12 months	Number of men	Percentage reporting condom use at last paid sexual intercourse	Number of men
2012 HDHS	16.8	6.6	3,429	76.7	213
2013 HSAPS	21.3	7.1	1,696	88.4	120

Appendix B. Administering the 2013 HSAPS Questionnaire: Interviewers' Experience

B.1 Methods

A week after the completion of the fieldwork for the 2013 HSAPS, 21 of the 27 interviewers who worked on the survey took part in focus group discussions about their experience administering the newly designed module of sexual activity questions. Two separate discussions were conducted: one with 8 male interviewers and a second with 13 female interviewers. This appendix presents a summary of the findings from those focus groups.

The discussions focused on the following themes:

- Did respondents generally understand the series of questions?
- Were any questions difficult to understand or often misinterpreted?
- What were the specific problems with this set of sexual behavior questions?
- How did men react to being asked specifically about having sex with sex workers?
- How does this set of questions compare to the set used in the 2012 HDHS?
- What do you think are the advantages and disadvantages of asking about different kinds of partners (as in the HSAPS) versus asking about partners in order of time since last sex, regardless of the type of partner (as in the HDHS)?
- What do you think about including this new set of questions in the full HDHS with biomarkers?
- During training, how easy or difficult was it to learn how to administer this set of sexual behavior questions compared to those used in the HDHS?

B.2 Findings from the Focus Group of Male Interviewers

Major points expressed by the male interviewers:

- The male interviewers preferred having separate sections to list the different types of sexual partners. Separating the partners is clearer for the respondents, and structuring the questionnaire to focus on one type of partner at a time improved the flow of the interview. Combining the different types of partners together (wives, sex workers, and casual acquaintances) and asking the respondent to identify their last sexual partner (as in the HDHS) makes it difficult for respondents to remember and/or be forthright.
- Separating the partner types into different sections in the HSAPS required the interviewers to name the different types of partners rather than the respondents telling them. This required the interviewers to be more sensitive, create a comfortable environment, and establish a stronger rapport with the respondents.
- Interviewers preferred having a section that asked specifically about having sex with sex workers. Most respondents did not hesitate to answer any question, because they were expecting questions about their sexual history. The male interviewers all agreed that the introductory sentences must be clear and that respondents must understand that some of the questions will be intrusive. While a few respondents found questions about sex with sex workers offensive, among the interviewers who participated in the discussion, not one respondent refused to answer their questions about

paid sex. All but one of the interviewers felt that most respondents were honest with their answers.

- Negative reactions to the direct questions about sex workers included: (1) some religious men found these questions frustrating and some were insulted, telling the interviewers that Christian men should not be asked these kinds of questions; (2) some married men tended to think that the interviewers were questioning their commitment to the marriage; and (3) younger men were much more at ease answering these questions, while older men (35+) tended to say that they did not remember.
- While the HSAPS sexual activity module takes longer to complete than the sexual history section in the HDHS, the interviewers said that the respondents did not complain about the length of time. The HSAPS contains more skips and filters and requires that the interviewers pay closer attention to the answers. Adding the HSAP version to the full HDHS would increase the time by about 10 minutes, and they viewed this increase to be acceptable.

Recommendations on specific questions in the HSAPS Man's Questionnaire

- The interviewers strongly advised that marital status (QM401) be asked before age at first sex (QM400B). Those respondents who have never had sex always felt that the marital status question was unnecessary.
- The question "when was the last time you had sexual intercourse", which is found in QM414, QM421, QM428A/B, and QM439, is intentionally asked twice for the last partner with whom the respondent last had sexual intercourse. It is first necessary to ask time since last sex in order to determine whether or not the respondent had sexual intercourse in the 12 months preceding the survey. If the respondent did not, the information in this question is used to skip over the remaining questions on sexual activity during the 12 months. For respondents who report having sexual intercourse in the 12 months preceding the survey, measurement of concurrent sexual partnerships requires recording the time since first and last sex with each individual partner. In the pilot module, it is possible for the respondent's most recent sexual partner to be reported in one of three possible locations: the first column in the section for marital partners, the first column in the section for paid sex partners, or the first column in the section for other sex partners. From a questionnaire design perspective, it was simpler to ask time since last sex in all of these locations rather than attempting to determine which section contained the most recent partner among all partner types, and then skip the question on time since last sex with the most recent partner only in that section. However, some respondents thought that the question was asked twice in order to trick them. When asked how the interviewers responded to the respondent's concern, the interviewers said that they told respondents that the question was repeated in order to confirm their answer in QM414. The interviewers stated that they understood that QM414 is necessary as a gateway question and that the placement is also correct but they suggested that we find a solution not to have to ask it again for the most recent sexual partner in the other sections.
- The wording of QM436 does not work well for respondents who are unmarried and did not have sex with a commercial sex worker in the past 12 months. The question has a long introduction which is not relevant to these respondents, and it takes too long to get to the actual question (sex with other partners in past 12 months), so both the interviewer and respondent can get lost before the question is finished, leading the respondent to mistakenly answer "No." QM436 is shown below. QM436A includes the wording used for married men. QM436B includes the wording used for unmarried men.

- QM4356A: “So far I have asked you about having sexual intercourse with your (partner/wife) as well as with prostitutes or people you may have paid for sex. Now, I want to ask you about other partners you may have had sexual intercourse with in the last 12 months. Have you had sexual intercourse with anyone else in the last 12 months?”

  QM436B: “So far I have asked you about having sexual intercourse with prostitutes or persons you have paid for sexual intercourse. Now, I want to ask you about other partners you may have had sexual intercourse with in the last 12 months. Have you had sexual intercourse with anyone else in the last 12 months?”

B.3 Findings from the Focus Group of Female Interviewers

Major points expressed by the female interviewers

- All of the interviewers liked the new structure in the HSAPS. The structure for the sexual activity section in the HSAPS was well understood by the respondents, and the HSAPS version made it clearer and easier to talk about specific partners, compared with the HDHS.
- Overall, the interviewers did not have problems with the more complex pattern of skips and filters in the HSAPS questionnaire.

Recommendations on specific questions in the HSAPS Woman’s Questionnaire

- All the interviewers agreed that sexual activity (QW600B) should not be asked before marital status (QW601). The first question in the section should not ask about sexual activity, as it is impolite and too direct. A lead-in question is necessary before asking personal questions, and asking about marital status is the best strategy. All interviewers said that asking about marital status first would not affect reporting of premarital sex. Also, it did not make sense to ask a woman who has just said that she has never had sex whether or not she is married in the following question.
- Some respondents were confused by questions QW605 (“When was the last time you had sexual intercourse with anyone?”) and QW610 (“When did you first have sexual intercourse with him?”). Respondents had problems distinguishing between the last and the first time they had sex with the same partner. Interviewers preferred the sexual behavior section in the HDHS to the HSAPS for asking about first sex with the most recent partner.
- QW606, “Who did you have sexual intercourse with the last time?” confused some of the respondents. Interviewers received answers such as, “with a man, of course.” The wording in the HDHS, “What was your relationship to this person?” appears to have been clearer.
- QW612, which asks about a second sexual partner in the past 12 months, is delicate. The interviewers reported that in order to get women to discuss their additional sexual partner, QW612 needs to be worded differently. Interviewers found that women were more likely to open up when the interviewers rephrased QW612 to include the time that women reported as their last sex, for example, “Before your last partner, which occurred 6 months ago, have you had sexual intercourse with anyone else in the past 12 months?” The interviewers did not think that respondents were intentionally excluding other sexual partners, but that respondents just needed help remembering other sexual partners they might have had throughout the year.

B.4 Conclusions

All of the interviewers were optimistic about the newly designed module on sexual activity. They stated that this new series of sexual activity questions was more detailed and clearer for the respondents. The interviewers recommended that it be integrated into the next Haiti DHS survey.

Appendix C. Sample Design

C.1 Introduction

The objective of the 2013 Haiti Sexual Activity Pilot Survey (HSAPS) was to test an alternative strategy for collecting data on sexual activity, to improve the quality of reporting. The pilot survey was conducted in 2 of Haiti's 11 departments, the Aire Métropolitain and the rest of the Ouest department outside of the Aire Métropolitain, referred to as Reste-Ouest. The survey used newly redesigned sections of the individual questionnaire on marriage and sexual activity. The HSAPS results were compared with a subsample of the results from the 2012 Haiti DHS (HDHS) corresponding to the areas sampled in the HSAPS. The 2012 HDHS used the standard questionnaire on marriage and sexual activity. The 2013 HSAPS was based on a sample of 1,815 households, from 55 clusters that were selected randomly from the pilot area. All males and females age 15-49 who were living on a regular basis in the selected household or who slept in the household the night before the survey were eligible for the individual survey. This sample was expected to produce 2,130 interviews for women age 15-49 and 1,913 interviews for men age 15-49.

C.2 Sampling Frame

The sampling frame used for the 2013 HSAPS was based on the General Population and Housing Census conducted in Haiti in 2003 (GPHC-2003). The Haitian Institute of Statistics and Information (IHSI) has a computer file of 11,967 Enumeration Sections (SDE) created for the purpose of the 2003 census. This database was partially updated in 2011 by IHSI for the purpose of selecting the sample for the 2012 HDHS. The update consisted of projecting the population for each SDE from the results of a survey conducted in 2011 by IHSI. This projection did not take into account the households living in officially registered camps, as a complete list of these camps was available from the World Immigration Organization (WIO). The list of camps was updated regularly every three months after the 2010 earthquake. So it was decided to place the population living in official camps apart. But the unregistered camps in an SDE were taken into account as ordinary households. In the frame, each SDE appears with all its identifiers (department, town, communal section, and identification code), the number of households, the population, and the type of residence (urban or rural). The boundaries of each SDE are clearly identifiable on maps created for GPHC-2003. Although the 2013 HSAPS was restricted to 2 of the 11 departments, the distribution of the full sampling frame is presented for completeness. Table C.1 gives the distribution of SDE in 11 departments and the average number of households per SDE, by type of residence. Table C.2 gives the distribution of the population and households. A complete list of registered camps is available from the Camp Coordination and Camp Management (CCCM) in Haiti. Table C.3 gives the number of camp sites, population, and number of households, according to the latest count.

Table C.1. Number of SDEs and average number of households per SDE by residence, according to department

	Number of SDEs			Average number of households per SDE		
Department	**Urban**	**Rural**	**Total**	**Urban**	**Rural**	**Total**
Aire Métropolitaine	1,874	0	1,874	199	na	199
Artibonite	438	1,620	2,058	237	144	164
Centre	144	853	997	161	137	141
Grand'Anse	86	425	511	208	157	165
Nippes	45	436	481	173	140	143
Nord	431	751	1,182	175	146	157
Nord-Est	152	271	423	194	158	171
Nord-Ouest	123	575	698	230	158	170
Reste-Ouest	203	1835	2038	171	133	137
Sud	129	848	977	200	139	147
Sud-Est	87	641	728	169	153	155
Haiti	3,712	8,255	11,967	198	143	160

Source: Preliminary results of the GPHC-2003 with partial updating in 2011, IHSI.

Table C.2. Percentage of population and households by residence, according to department

	Percentage of population			Percentage of households		
Department	**Urban**	**Rural**	**Total**	**Urban**	**Rural**	**Total**
Aire Métropolitaine	100.0	0.0	19.9	100.0	0.0	19.5
Artibonite	32.0	68.0	16.2	30.7	69.3	17.6
Centre	16.3	83.7	7.3	16.5	83.5	7.3
Grand'Anse	20.5	79.5	4.5	21.2	78.8	4.4
Nippes	10.5	89.5	3.3	11.3	88.7	3.6
Nord	39.5	60.5	10.3	40.7	59.3	9.7
Nord-Est	38.2	61.8	4.0	40.8	59.2	3.8
Nord-Ouest	22.8	77.2	6.7	23.8	76.2	6.2
Reste-Ouest	12.9	87.1	14.3	12.5	87.5	14.5
Sud	17.7	82.3	7.8	17.9	82.1	7.5
Sud-Est	13.0	87.0	5.8	13.0	87.0	5.9
Haiti	38.6	61.4	100.0	38.3	61.7	100.0

Source: Preliminary results of the GPHC-2003 with partial updating in 2011, IHSI.

Table C.3. Distribution of the population and households in camps, by commune

Commune	Number of camp sites	Population	Households
Carrefour	118	49,721	12,151
Cite Soleil	42	22,481	5,603
Croix-Des-Bouquets	76	75,855	19,618
Delmas	221	207,675	49,790
Ganthier	4	2,068	380
Grand-Goave	36	1,560	602
Gressier	32	2,913	963
Jacmel	17	3,679	1,169
Leogane	76	16,303	4,777
Pétion-Ville	80	37,489	10,015
Petit-Goave	69	6,959	2,098
Port-Au-Prince	160	164,962	39,530
Tabarre	70	42,629	11,948
Total	1,001	634,294	158,644

Source: CCCM DTM Haiti, May 2011

C.3 Sampling Procedures and Sample Allocation

The 2013 HSAPS had a stratified sample, selected in two stages from the sampling frame. Stratification was achieved by separating the urban and rural areas of each department to form the sampling strata. Samples were selected independently in each sampling stratum by a two-stage selection process. In the first stage, 55 SDE had been selected with a stratified probability proportional to size selection according to the sample allocation given in Table C.4. Before the sample selection of the SDE, the sampling frame was sorted in order according to administrative units, so that an implicit stratification and a proportional allocation would be achieved at lower-level administrative units, such as communes and communal sections. After the first stage selection and before the survey, a household listing operation was carried out in all of the selected SDE.

The household listing operation consisted of visiting each of the 55 selected SDE, drawing a location map and a detailed sketch map, and recording on the household listing forms all residential households found in the SDE, along with the address and the name of the head of household. The resulting list of households served as the sampling frame for the selection of households in the second stage. During the household listing operation, some of the selected SDE were found to be large. Thus in order to minimize the task of household listing, the selected SDE with an estimated number of households greater than 300 were segmented. Only one segment was selected for the survey with probability proportional to the segment size. The methodology and the detailed household listing procedure were addressed in the household listing manual.

At the second stage, 33 households were selected from the newly established household listing for each selected SDE. Household selection was performed in the central office before the survey. The survey interviewers were asked to interview only the 33 pre-selected households in each SDE. No replacements and no changes of the pre-selected households were allowed during the implementing stages, in order to prevent bias.

Table C.4 shows the sample allocation of clusters and households by residence for the two departments included in the 2013 HSAPS. Table C.5 shows the expected number of interviews of women and men age 15-49. The calculations were based on the survey results of the 2012 HDHS.

Table C.4. Sample allocation of clusters and households by residence, according to department, 2013 HSAPS

	Sample allocation of clusters			Sample allocation of households		
Department	**Urban**	**Rural**	**Total**	**Urban**	**Rural**	**Total**
Aire Métropolitaine	30		30	990	0	990
Reste-Ouest	3	22	25	99	726	825
Total	33	22	55	1,089	726	1,815

Table C.5. Expected number of interviews of women and men age 15-49 by residence, according to department, 2013 HSAPS

	Expected number of women			Expected number of men		
Department	**Urban**	**Rural**	**Total**	**Urban**	**Rural**	**Total**
Aire Métropolitaine	1,277	0	1,277	1,108	0	1,108
Reste-Ouest	102	751	853	97	708	805
Total	1,379	751	2,130	1,205	708	1,913

C.4 Sampling Weight

Because of the non-proportional allocation of the sample to the different reporting domains, sampling weights are required for any analysis using 2013 HSAPS data to ensure the representativeness of the results. Since the 2013 HSAPS sample was a two-stage, stratified cluster sample, sampling weights were calculated based on sampling probabilities calculated separately for each sampling stage and for each cluster. We use the following notations:

P_{1hi}: sampling probability of the ith cluster in stratum h

P_{2hi}: sampling probability within the ith cluster for households

P_{hi}: overall sampling probability of any households of the ith cluster in stratum h

Let a_h be the number of clusters selected in stratum h for the HSAPS, M_{hi} the number of households according to the sampling frame in the ith cluster, and $\sum M_{hi}$ the total number of structures in the stratum h. The probability of selecting the ith cluster in stratum h for the HSAPS was calculated as follows:

$$P_{1hi} = \frac{a_h M_{hi}}{\sum M_{hi}}$$

Let L_{hi} and g_{hi} (g_{hi} =30 for all h and i for HSAPS) be the number of households listed and selected in the ith cluster in stratum h. The probability for selecting a household in the ith cluster was calculated as follows:

$$P_{2hi} = \frac{g_{hi}}{L_{hi}}$$

The overall selection probability of each household in cluster *i* of stratum *h* is therefore the production of the selection probabilities:

$$P_{hi} = P_{1hi} \times P_{2hi} = \frac{a_h g_{hi} M_{hi}}{L_{hi} \sum M_{hi}}$$

The sampling weight for each household in cluster *i* of stratum *h* is the inverse of its overall selection probability:

$$W_{hi} = 1 / P_{hi}$$

A spreadsheet containing all sampling parameters and selection probabilities was constructed to facilitate the calculation of sampling weights. Household sampling weights and the individual weights for women and men were obtained by adjusting the above-calculated weight to compensate household non-response and individual non-response, respectively. These weights were further normalized at the national level to produce unweighted cases equal to weighted cases for both households and individuals at the national level. The normalized weights are valid for estimation of proportions and means at any aggregation levels, but not valid for estimation of totals.

Table C.6. Sample implementation: women

Percent distribution of households and eligible women by results of the household and individual interviews, and household, eligible women, and overall women response rates, according to urban-rural residence and region (unweighted), 2013 HSAPS

	Residence		Region		
Result	**Urban**	**Rural**	**Aire Métropolitaine**	**Reste-Ouest**	**Total**
Selected households					
Completed (C)	99.0	98.3	99.0	98.4	98.7
Household present but no competent respondent at home (HP)	0.5	0.3	0.5	0.2	0.4
Household absent (HA)	0.1	1.0	0.1	0.8	0.4
Dwelling vacant/address not a dwelling (DV)	0.5	0.3	0.4	0.4	0.4
Dwelling destroyed (DD)	0.0	0.1	0.0	0.1	0.1
Total	100.0	100.0	100.0	100.0	100.0
Number of sampled households	1,090	726	991	825	1,816
Household response rate (HRR)1	99.5	99.7	99.5	99.8	99.6
Eligible women					
Completed (EWC)	98.1	99.1	97.9	99.2	98.4
Not at home (EWNH)	1.3	0.4	1.4	0.4	1.0
Refused (EWR)	0.3	0.1	0.3	0.1	0.2
Partly completed (EWPC)	0.1	0.0	0.1	0.0	0.0
Incapacitated (EWI)	0.3	0.1	0.3	0.1	0.2
Other (EWO)	0.0	0.1	0.0	0.1	0.0
Total	100.0	100.0	100.0	100.0	100.0
Number of women	1,387	679	1,272	794	2,066
Eligible women response rate (EWRR)2	98.1	99.1	97.9	99.2	98.4
Overall women response rate (OWRR)3	97.6	98.8	97.4	99.0	98.0

[1] Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

$$\frac{100 * C}{C + HP + P + R + DNF}$$

[2] The eligible women response rate (EWRR) is equivalent to the percentage of interviews completed (EWC).

[3] The overall women response rate (OWRR) is calculated as:

$$OWRR = HRR * EWRR/100$$

Table C.7. Sample implementation: men

Percent distribution of households and eligible men by results of the household and individual interviews, and household, eligible men, and overall men response rates, according to urban-rural residence and region (unweighted), 2013 HSAPS

	Residence		Region		
Result	**Urban**	**Rural**	**Aire Métropolitaine**	**Reste-Ouest**	**Total**
Selected households					
Completed (C)	99.0	98.3	99.0	98.4	98.7
Household present but no competent respondent at home (HP)	0.5	0.3	0.5	0.2	0.4
Household absent (HA)	0.1	1.0	0.1	0.8	0.4
Dwelling vacant/address not a dwelling (DV)	0.5	0.3	0.4	0.4	0.4
Dwelling destroyed (DD)	0.0	0.1	0.0	0.1	0.1
Total	100.0	100.0	100.0	100.0	100.0
Number of sampled households	1,090	726	991	825	1,816
Household response rate (HRR)[1]	99.5	99.7	99.5	99.8	99.6
Eligible men					
Completed (EMC)	96.0	96.9	95.7	97.2	96.3
Not at home (EMNH)	3.5	1.8	3.8	1.5	2.9
Postponed (EMP)	0.1	0.0	0.1	0.0	0.1
Refused (EMR)	0.2	0.6	0.2	0.6	0.3
Incapacitated (EMI)	0.3	0.6	0.2	0.7	0.4
Total	100.0	100.0	100.0	100.0	100.0
Number of men	1,139	622	1,047	714	1,761
Eligible men response rate (EMRR)[2]	96.0	96.9	95.7	97.2	96.3
Overall men response rate (OMRR)[3]	95.5	96.7	95.2	97.0	95.9

[1] Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

$$\frac{100 * C}{C + HP + P + R + DNF}$$

[2] The eligible men response rate (EMRR) is equivalent to the percentage of interviews completed (EMC)

[3] The overall men response rate (OMRR) is calculated as:

$$OMRR = HRR * EMRR/100$$

Appendix D. Estimates of Sampling Errors

The estimates from a sample survey are affected by two types of errors: (1) non-sampling errors, and (2) sampling errors. Non-sampling errors are the results of mistakes made in implementing data collection and data processing, such as failure to locate and interview the correct household, misunderstanding of the questions on the part of either the interviewer or the respondent, and errors in data entry. Although numerous efforts were made during the implementation of the 2013 Haiti Sexual Activity Pilot Survey (HSAPS) to minimize this type of error, non-sampling errors are impossible to avoid and are difficult to evaluate statistically.

Sampling errors, in contrast, can be evaluated statistically. The sample of respondents selected in the HSAPS is only one of many samples that could have been selected from the same population, using the same design and identical size. Each of these samples would yield results that differ somewhat from the results of the actual sample selected. Sampling error is a measure of the variability between all possible samples. Although the degree of variability is not known exactly, it can be estimated from the survey results.

A sampling error is usually measured in terms of the *standard error* for a particular statistic (mean, percentage, etc.), which is the square root of the variance. The standard error can be used to calculate confidence intervals within which the true value for the population can reasonably be assumed to fall. For example, for any given statistic calculated from a sample survey, the value of that statistic will fall within a range of plus or minus two times the standard error of that statistic in 95 percent of all possible samples of identical size and design.

If the sample of respondents had been selected as a simple random sample, it would have been possible to use straightforward formulas for calculating sampling errors. However, the 2013 HSAPS sample is the result of a multi-stage stratified design, and, consequently, it was necessary to use more complex formulae. The computer software used to calculate sampling errors for the 2013 HSAPS is a SAS program. This program used the Taylor linearization method for variance estimation for survey estimates that are means or proportions.

The Taylor linearization method treats any percentage or average as a ratio estimate, $r = y/x$, where y represents the total sample value for variable y, and x represents the total number of cases in the group or subgroup under consideration. The variance of r is computed using the formula given below, with the standard error being the square root of the variance:

$$SE^2(r) = var(r) = \frac{1}{x^2}\sum_{h=1}^{H}\left[(1-f_h)\frac{m_h}{m_h-1}\left(\sum_{i=1}^{m_h} z_{hi}^2 - \frac{z_h^2}{m_h}\right)\right]$$

in which

$$z_{hi} = y_{hi} - rx_{hi}\text{, and } z_h = y_h - rx_h$$

where h represents the stratum which varies from 1 to H,

m_h is the total number of clusters selected in the hth stratum,

y_{hi} is the sum of the weighted values of variable y in the ith cluster in the hth stratum,

x_{hi} is the sum of the weighted number of cases in the ith cluster in the hth stratum, and

f_h is the sampling fraction of PSU in the hth stratum which is small and ignored

In addition to the standard error, the program computes the design effect (DEFT) for each estimate, which is defined as the ratio between the standard error using the given sample design and the standard error that would result if a simple random sample had been used. A DEFT value of 1.0 indicates that the sample design is as efficient as a simple random sample, while a value greater than 1.0 indicates the increase in the sampling error due to the use of a more complex and less statistically efficient design, such as multistage and cluster selection. The program also computes the relative standard error and the confidence limits for the estimates.

Sampling errors are calculated for selected variables considered to be of primary interest. This Appendix presents the results for the area covered by the HSAPS as a whole—the Aire Métropolitane and Reste-Oeste departments—for both the 2013 HSAPS and the 2012 HDHS, to facilitate comparison of the results of the two surveys. Table D.1 shows, for each variable, the type of statistic (mean or proportion) and the base population. Tables D.2 and D.3 present the value of the statistic (R), its standard error (SE), the number of unweighted (N) and weighted (N') cases, the design effect (DEFT), the relative standard error (SE/R), and the 95 percent confidence limits (R±2SE), for each variable. The DEFT is considered undefined when the standard error considering simple random sample is zero (when the estimate is close to 0 or 1).

The confidence interval (as calculated for the *mean number of sex partners in lifetime* for interviewed women, for example) can be interpreted as follows: the overall average from the HSAPS sample is 2.612 and its standard error is 0.066. Therefore, to obtain the 95 percent confidence limits, the procedure is to add and subtract twice the standard error to the sample estimate, i.e., 2.612±2×0.066. There is a high probability (95 percent) that the *true* mean number of lifetime sex partners for women age 15-49 is between 2.480 and 2.743.

For the 2013 HSAPS sample, the value of the design effect (DEFT), averaged over all variables for women, is 1.530, which means that, due to multistage and clustering of the sample, the average standard error is increased by a factor of 1.530 over that in an equivalent simple random sample.

Table D.1. Selected variables for sampling errors, 2012 HDHS and 2013 HSAPS

Variable	Estimate	Base population
WOMEN		
Urban residence	Proportion	All women 15-49
Never married/in union	Proportion	All women 15-49
Currently married/in union	Proportion	All women 15-49
Formerly married/in union	Proportion	All women 15-49
Married before age 20	Proportion	All women 20-49
Had sexual intercourse before age 15 (youth)	Proportion	All women 15-24
Had sexual intercourse before age 18 (youth)	Proportion	All women 18-24
Abstinence among never-married youth (never had sex)	Proportion	Never-married women 15-24
Sexually active in past 12 months among never-married youth	Proportion	Never-married women 15-24
Had 2+ sexual partners in past 12 months	Proportion	All women 15-49
Condom use at last sex	Proportion	Women 15-49 with 2+ partners in past 12 months
Mean number of sexual partners in lifetime	Mean	Women 15-49 who ever had sex and gave a numeric response
Had 3+ sexual partners in lifetime	Proportion	All women 15-49
MEN		
Urban residence	Proportion	All men 15-49
Never married/in union	Proportion	All men 15-49
Currently married/in union	Proportion	All men 15-49
Formerly married/in union	Proportion	All men 15-49
Married before age 20	Proportion	All men 20-49
Had sexual intercourse before age 15 (youth)	Proportion	All men 15-24
Had sexual intercourse before age 18 (youth)	Proportion	All men 18-24
Abstinence among never-married youth (never had sex)	Proportion	Never-married men 15-24
Sexually active in past 12 months among never-married youth	Proportion	Never-married men 15-24
Had 2+ sexual partners in past 12 months	Proportion	All men 15-49
Condom use at last sex	Proportion	Men 15-49 with 2+ partners in past 12 months
Mean number of sexual partners in lifetime	Mean	Men 15-49 who ever had sex and gave a numeric response
Had 5+ sexual partners in past 12 months	Proportion	All men 15-49
Had 10+ sexual partners in lifetime	Proportion	All men 15-49
Ever paid for sexual intercourse	Proportion	All men 15-49
Paid for sexual intercourse in past 12 months	Proportion	All men 15-49
Used a condom at last paid sex	Proportion	Men age 15-49 who paid for sex in past 12 months

Table D.2. Sampling errors for the 2012 HDHS and the 2013 HSAPS: women

Variable	Value (R)	Standard error (SE)	Number of cases: Unweighted (N)	Number of cases: Weighted (N')	Design effect (DEFT)	Relative error (SE/R)	Confidence limits: R-2SE	Confidence limits: R+2SE
2012 HDHS								
Urban residence	0.674	0.031	3,540	5,759	3.949	0.046	0.612	0.736
Never married/in union	0.368	0.012	3,540	5,759	1.490	0.033	0.344	0.392
Currently married/in union	0.538	0.013	3,540	5,759	1.526	0.024	0.513	0.564
Formerly married/in union	0.093	0.007	3,540	5,759	1.435	0.075	0.079	0.108
Married before age 20	0.337	0.014	2,768	4,509	1.510	0.040	0.310	0.364
Had sexual intercourse before age 15	0.123	0.011	1,521	2,466	1.356	0.093	0.100	0.145
Had sexual intercourse before age 18	0.489	0.024	1,047	1,697	1.549	0.049	0.441	0.536
Abstinence among never-married youth (never had sex)	0.550	0.019	1,086	1,729	1.254	0.034	0.512	0.588
Sexually active in past 12 months among never-married youth	0.334	0.018	1,086	1,729	1.250	0.054	0.298	0.370
Had 2+ sexual partners in past 12 months	0.029	0.004	3,540	5,759	1.261	0.123	0.022	0.036
Condom use at last sex	0.425	0.057	96	167	1.130	0.135	0.310	0.540
Mean number of sexual partners in lifetime	2.439	0.064	2,881	4,708	1.029	0.026	2.312	2.566
Had 3+ sexual partners in lifetime	0.295	0.012	3,540	5,759	1.530	0.040	0.272	0.319
2013 HSAPS								
Urban residence	0.656	0.050	2,033	2,033	4.676	0.075	0.557	0.755
Never married/in union	0.408	0.014	2,033	2,033	1.300	0.035	0.380	0.436
Currently married/in union	0.506	0.013	2,033	2,033	1.133	0.025	0.481	0.531
Formerly married/in union	0.086	0.006	2,033	2,033	0.979	0.071	0.074	0.098
Married before age 20	0.225	0.014	1,622	1,624	1.375	0.063	0.196	0.253
Had sexual intercourse before age 15	0.122	0.016	800	804	1.391	0.132	0.090	0.155
Had sexual intercourse before age 18	0.565	0.021	569	563	1.012	0.037	0.523	0.607
Abstinence among never-married youth (never had sex)	0.452	0.027	596	604	1.321	0.060	0.399	0.506
Sexually active in past 12 months among never married youth	0.428	0.030	596	604	1.456	0.069	0.368	0.487
Had 2+ sexual partners in past 12 months	0.034	0.007	2,033	2,033	1.713	0.203	0.020	0.048
Condom use at last sex	0.397	0.060	75	69	1.057	0.151	0.277	0.518
Mean number of sexual partners in lifetime	2.612	0.066	1,725	1,721	1.417	0.025	2.480	2.743
Had 3+ sexual partners in lifetime	0.359	0.014	2,033	2,033	1.288	0.038	0.332	0.386

Table D.3. Sampling errors for the 2012 HDHS and the 2013 HSAPS: men

Variable	Value (R)	Standard error (SE)	Number of cases: Unweighted (N)	Number of cases: Weighted (N')	Design effect (DEFT)	Relative error (SE/R)	Confidence limits: R-2SE	Confidence limits: R+2SE
2012 HDHS								
Urban residence	0.681	0.030	1,915	3,249	2.839	0.044	0.621	0.742
Never married/in union	0.521	0.015	1,915	3,249	1.332	0.029	0.491	0.552
Currently married/in union	0.436	0.015	1,915	3,249	1.299	0.034	0.407	0.465
Formerly married/in union	0.043	0.005	1,915	3,249	1.102	0.119	0.033	0.053
Married before age 20	0.084	0.009	1,502	2,554	1.212	0.104	0.066	0.101
Had first sexual intercourse before age 15 (youth)	0.362	0.019	807	1,361	1.141	0.053	0.323	0.401
Had first sexual intercourse before age 18 (youth)	0.799	0.020	567	974	1.174	0.025	0.759	0.839
Abstinence among never-married youth (never had sex)	0.220	0.018	734	1,221	1.167	0.081	0.184	0.256
Sexually active in past 12 months among never-married youth	0.614	0.025	734	1,221	1.365	0.040	0.565	0.663
Had 2+ sexual partners in past 12 months	0.285	0.017	1,915	3,249	1.693	0.061	0.250	0.320
Condom use at last sex	0.459	0.031	517	927	1.415	0.068	0.397	0.521
Mean number of sexual partners in lifetime	14.312	0.925	1,711	2,917	1.753	0.065	12.461	16.162
Had 5+ sexual partners in past 12 months	0.047	0.006	1,915	3,249	1.267	0.130	0.035	0.060
Had 10+ sexual partners in lifetime	0.338	0.017	1,915	3,249	1.577	0.051	0.304	0.372
Ever paid for sexual intercourse	0.168	0.013	1,915	3,249	1.527	0.078	0.142	0.195
Paid for sexual intercourse in past 12 months	0.066	0.008	1,915	3,249	1.468	0.127	0.049	0.082
Used a condom at last paid sex	0.767	0.045	123	213	1.184	0.059	0.676	0.858
2013 HSAPS								
Urban residence	0.624	0.050	1,696	1,696	4.219	0.080	0.524	0.724
Never married/in union	0.537	0.022	1,696	1,696	1.783	0.040	0.494	0.581
Currently married/in union	0.429	0.021	1,696	1,696	1.736	0.049	0.387	0.471
Formerly married/in union	0.033	0.005	1,696	1,696	1.188	0.155	0.023	0.044
Married before age 20	0.062	0.009	1,310	1,315	1.291	0.139	0.044	0.079
Had first sexual intercourse before age 15 (youth)	0.335	0.026	699	677	1.458	0.078	0.283	0.387
Had first sexual intercourse before age 18 (youth)	0.781	0.026	475	455	1.392	0.034	0.728	0.834
Abstinence among never-married youth (never had sex)	0.250	0.021	658	638	1.225	0.083	0.208	0.291
Sexually active in past 12 months among never-married youth	0.589	0.024	658	638	1.233	0.040	0.542	0.636

(Continued...)

Table D.3. – *Continued*

Variable	Value (R)	Standard error (SE)	Number of cases: Unweighted (N)	Number of cases: Weighted (N')	Design effect (DEFT)	Relative error (SE/R)	Confidence limits: R-2SE	Confidence limits: R+2SE
Had 2+ sexual partners in past 12 months	0.276	0.018	1,696	1,696	1.629	0.064	0.240	0.311
Condom use at last sex	0.510	0.029	486	468	1.28	0.057	0.452	0.569
Mean number of sexual partners in lifetime	10.918	0.766	1,513	1,519	1.886	0.070	9.385	12.45
Had 5+ sexual partners in past 12 months	0.016	0.004	1,696	1,696	1.158	0.222	0.009	0.023
Had 10+ sexual partners in lifetime	0.297	0.019	1,696	1,696	1.741	0.065	0.258	0.336
Ever paid for sexual intercourse	0.213	0.020	1,696	1,696	2.025	0.095	0.172	0.253
Paid for sexual intercourse in past 12 months	0.071	0.008	1,696	1,696	1.334	0.118	0.054	0.087
Used a condom at last paid sex	0.884	0.045	123	120	1.54	0.051	0.795	0.974

Appendix E. Data Quality Tables

Table E.1. Household age distribution

Single-year age distribution of the de facto household population by sex (weighted), 2013 HSAPS

	Women		Men	
Age	Number	Percent	Number	Percent
0	86	2.2	98	2.8
1	105	2.7	90	2.6
2	87	2.2	84	2.4
3	105	2.7	102	2.9
4	74	1.9	88	2.5
5	84	2.1	73	2.1
6	66	1.7	102	2.9
7	65	1.7	70	2.0
8	86	2.2	76	2.2
9	84	2.2	78	2.2
10	65	1.7	76	2.2
11	70	1.8	74	2.1
12	94	2.4	109	3.1
13	107	2.7	108	3.1
14	59	1.5	76	2.2
15	76	1.9	70	2.0
16	85	2.2	68	1.9
17	89	2.3	90	2.6
18	94	2.4	90	2.6
19	77	2.0	65	1.9
20	83	2.1	56	1.6
21	67	1.7	61	1.8
22	81	2.1	68	1.9
23	90	2.3	67	1.9
24	91	2.3	65	1.9
25	73	1.9	71	2.0
26	84	2.1	59	1.7
27	83	2.1	73	2.1
28	90	2.3	63	1.8
29	57	1.5	49	1.4
30	91	2.3	69	2.0
31	52	1.3	43	1.2
32	71	1.8	56	1.6
33	65	1.7	54	1.5
34	62	1.6	53	1.5
35	78	2.0	55	1.6
36	50	1.3	36	1.0
37	42	1.1	37	1.0
38	47	1.2	40	1.2

(Continued...)

Table E.1. – *Continued*

	Women		Men	
Age	**Number**	**Percent**	**Number**	**Percent**
39	50	1.3	37	1.0
40	52	1.3	52	1.5
41	34	0.9	22	0.6
42	38	1.0	35	1.0
43	22	0.6	35	1.0
44	34	0.9	25	0.7
45	25	0.6	24	0.7
46	26	0.7	22	0.6
47	26	0.7	30	0.9
48	15	0.4	19	0.5
49	22	0.6	15	0.4
50	39	1.0	19	0.5
51	28	0.7	27	0.8
52	36	0.9	37	1.1
53	47	1.2	35	1.0
54	31	0.8	31	0.9
55	29	0.8	35	1.0
56	22	0.6	24	0.7
57	18	0.5	12	0.3
58	13	0.3	15	0.4
59	20	0.5	10	0.3
60	39	1.0	31	0.9
61	16	0.4	7	0.2
62	23	0.6	13	0.4
63	18	0.5	6	0.2
64	9	0.2	9	0.2
65	20	0.5	21	0.6
66	11	0.3	12	0.3
67	18	0.5	9	0.2
68	12	0.3	11	0.3
69	3	0.1	3	0.1
70+	95	2.4	61	1.7
Don't know/missing	2	0.1	0	0.0
Total	3,911	100.0	3,506	100.0

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview.

Table E.2.1. Age distribution of eligible and interviewed women

De facto household population of women age 10-54, number and percent distribution of interviewed women age 15-49; and percentage of eligible women who were interviewed (weighted), by five-year age groups, 2013 HSAPS

Age group	Household population of women age 10-54	Interviewed women age 15-49		Percentage of eligible women interviewed
		Number	Percentage	
10-14	395	na	na	na
15-19	421	418	20.0	99.2
20-24	412	406	19.5	98.6
25-29	387	381	18.2	98.4
30-34	340	334	16.0	98.3
35-39	267	264	12.6	98.8
40-44	180	172	8.3	96.0
45-49	114	111	5.3	97.5
50-54	181	na	na	na
15-49	2,120	2,086	100.0	98.4

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview. Weights for both household population of women and interviewed women are household weights. Age is based on the household questionnaire.
na = Not applicable

Table E.2.2. Age distribution of eligible and interviewed men

De facto household population of men age 10-54, number and percent distribution of interviewed men age 15-49 and percent of eligible men who were interviewed (weighted), by five-year age groups, 2013 HSAPS

Age group	Household population of men age 10-54	Interviewed men age 15-49		Percentage of eligible men interviewed
		Number	Percentage	
10-14	443	na	na	na
15-19	384	379	22.3	98.8
20-24	317	301	17.7	94.8
25-29	315	305	17.9	96.8
30-34	274	257	15.1	93.6
35-39	204	191	11.2	93.2
40-44	168	163	9.6	96.9
45-49	111	107	6.3	96.6
50-54	149	na	na	na
15-49	1,773	1,702	100.0	96.0

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview. Weights for both household population of men and interviewed men are household weights. Age is based on the household questionnaire.

na = Not applicable

Table E.3. Completeness of reporting

Percentage of observations missing information for selected demographic and health questions (weighted), 2013 HSAPS

Subject		Percentage with information missing	Number of cases
Birth date	Births in the 15 years preceding the survey		
Month only		0.05	2,348
Month and Year		0.00	2,348
Age at death	Deceased children born in the 15 years preceding the survey	0.00	198
Age/date at first union[1]	Ever married women age 15-49	0.00	1,204
	Ever married men age 15-49	0.13	784
Respondent's education	All women age 15-49	0.00	2,033
	All men age 15-49	0.13	1,696

[1] Both year and age missing

Appendix F. Personnel Involved in the 2013 Haiti Sexual Activity Pilot Survey

Institut Haïtien de l'Enfance (IHE)

Project Coordinators
Michel Cayemittes, Director General
Canez Alexandre, Survey Coordinator
Grégory Charles, Financial Controller
Rose-Marie Joseph Dorsainvil, Head Accountant
Marie Aulina J. Anténor, Assistant Accountant
Ertha Beaugé, Administrative Assistant

Secretary
Fédelande T. Viau, Executive Secretary

National Consultant
Jean Claude Darang, Cartographer

Data Processing Staff
Paul Bréa, Data Processing Supervisor
Myrlande Noël, Data Processing Assistant

Data Entry Operators

Annuel Julien
Emie Gabrielle
Cherly Julmiste
Isaac Homélus
Jonathan Jacques Target
Marie Myrtho Février
Nathalie Cadet
Pierre Modelet Clement
Sophonie Aimable
Stephania Noel
William Adisson

Office Editors
Josue Pierre
Magalie Emile Vincent
Patricia Lamadieu Saint-Paulain

Field Teams

Supervisors

Claude Val
Francz Casimir
Clébert Guerrier
Benjamen Joseph
Jean Claude St fleur
Marie Carmelle Valbrun Pierre

Interviewers

Ardilès David Brignol
Anne Esther Variste
Edwin Chardavoine
Emmanuelle Casimir

Félix Dixon Clerger
Guersley Chéry
Guilene Estesias
Johnson Mervil
Kettia Jusmé Paul
Madaline Noël
Magdala Valmy
Marie Marjorie Casséus Durandisse
Marie Phara Bernard
Marie Sonide Dorilma
Marie Yolande Médor
Mirlène Laurenceau
Maulès Brignol
Sherly Gay
Sillet Francine Lazarre
Sofia Olius
Witchel Dorvilier

Listing and Mapping Staff

Estime Geroldine
Flaubert Saint Hilaire
Fritznel Rénélus
Guetson Alexandre
Jean Paul Nicolas
Jonas Davilmar
Lhérisson Darang
Lironne Duperval
Louis Gérard Alexis
Lucner Augustin
Marc Henry Régis
Nelson Alexandre

Drivers

Boursiquot Georges
Closel Noël
Colimon Pierre
Fritz Fontus
Jean Dieuvet Civil
Jean Yves Pilémond
Ralph Joseph
Roosevelt St-Vil
Ronald Etienne
Styve Estimé

Support Staff

Assoul Daméus
Daniel Exumé
Jean Moster Benjamin
Joseph Estésias
Guirlande Dorléus
Férère Exumé

ICF International Inc.

Technical Assistance

Bernard Barrère, Survey design and coordination
Joy Fishel, Coordination
Sunita Kishor, Questionnaire design
Kia Reinis, Questionnaire design
Yodit Bekele, Questionnaire design, training, and field supervision
Fatuma Michelle Busangu, Training and field supervision
Ruilin Ren, Sample design
Elisabeth Metellus, Training and field supervision
Amadou Sow, Data processing
Shawna Kelly, Data processin

Appendix G. Questionnaires

G.1 2012 HDHS Woman's Questionnaire

SECTION 6. MARRIAGE AND SEXUAL ACTIVITY

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
601	Are you currently married or living together with a man as if married?	YES, CURRENTLY MARRIED . . . . . 1 YES, CURRENTLY PLACÉE . . . . . 2 YES, CURRENTLY VIVAVEK . . . . . 3 YES, LIVING WITH A MAN . . . . . 4 NO, NOT IN UNION 5	→ 604
602	Have you ever been married, placée, vivavek or lived together with a man as if married?	YES, FORMERLY MARRIED/PLACÉE VIVAVEK . . . . . 1 YES, LIVED WITH A MAN . . . . . 2 NO 3	→ 612
603	What is your marital status now: are you widowed, divorced, or separated?	WIDOWED . . . . . 1 DIVORCED . . . . . 2 SEPARATED 3	→ 609
604	Is your (husband/partner/monsieur) living with you now or is he staying elsewhere?	LIVING WITH HER . . . . . 1 STAYING ELSEWHERE 2	
605	RECORD THE HUSBAND'S/PARTNER'S NAME AND LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE. IF HE IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'.	NAME _____ LINE NO. . . . . [ ][ ]	
606	Does your (husband/partner/monsieur) have other wives or does he live with other women as if married?	YES . . . . . 1 NO . . . . . 2 DON'T KNOW 8	→ 609
607	Including yourself, in total, how many wives or live-in partners does he have?	TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS [ ][ ] DON'T KNOW 98	
608	Are you the first, second, … wife?	RANK . . . . . [ ][ ] DON'T KNOW 98	
609	Have you been married, placée, vivavek or lived with a man only once or more than once?	ONLY ONCE . . . . . 1 MORE THAN ONCE 2	
610	CHECK 609 : MARRIED/ LIVED WITH A MAN ONLY ONCE → In what month and year did you start living with your (husband/partner/monsieur)? MARRIED/ LIVED WITH A MAN MORE THAN ONCE → Now I would like to ask about your first (husband/partner). In what month and year did you start living with him?	MONTH . . . . . [ ][ ] DON'T KNOW MONTH . . . . . 98 YEAR . . . . . [ ][ ][ ][ ] DON'T KNOW YEAR 9998	→ 612
611	How old were you when you first started living with him?	AGE . . . . . [ ][ ]	
612	CHECK FOR THE PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.		

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
613	Now I would like to ask some questions about sexual activity in order to gain a better understanding of some important life issues. How old were you when you had sexual intercourse for the very first time?	NEVER HAD SEXUAL INTERCOURSE . . . . . 00 AGE IN YEARS . . . . . [ ][ ] FIRST TIME WHEN STARTED LIVING WITH (FIRST) HUSBAND/PARTNER 95	→ 628
614	Now I would like to ask you some questions about your recent sexual activity. Let me assure you again that your answers are completely confidential and will not be told to anyone. If we should come to any question that you don't want to answer, just let me know and we will go to the next question.		
615	When was the <u>last</u> time you had sexual intercourse? IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.	DAYS AGO . . . . . 1 [ ][ ] WEEKS AGO . . . . . 2 [ ][ ] MONTHS AGO . . . . . 3 [ ][ ] YEARS AGO . . . . . 4 [ ][ ]	→ 627

		LAST SEXUAL PARTNER	SECOND-TO-LAST SEXUAL PARTNER	THIRD-TO-LAST SEXUAL PARTNER
616	When was the last time you had sexual intercourse with this person?		DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ]	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ]
617	The last time you had sexual intercourse (with this second/third person), was a condom used?	YES . . . . . 1 NO . . . . . 2 (SKIP TO 619)	YES . . . . . 1 NO . . . . . 2 (SKIP TO 619)	YES . . . . . 1 NO . . . . . 2 (SKIP TO 619)
618	Was a condom used every time you had sexual intercourse with this person in the last 12 months?	YES . . . . . 1 NO 2	YES . . . . . 1 NO 2	YES . . . . . 1 NO 2
619	What was your relationship to this person with whom you had sexual intercourse? IF " RENMEN","FIANCÉ", BOYFRIEND, ASK: Were you living together as if married? IF YES, CIRCLE '1' IF NO, CIRCLE '2'	HUSBAND/PLACÉ/VIVAK/ PARTNER LIVING WITH RESPONDENT 1 PARTNER/ FIANCÉ/ FRIEND NOT LIVING WITH RESPONDENT 2 CASUAL ACQUAINTANCE . 3 CLIENT/PROSTITUTE 4 OTHER _____ 5 (SPECIFY) (SKIP TO 622)	HUSBAND/PLACÉ/VIVAK/ PARTNER LIVING WITH RESPONDENT 1 PARTNER/ FIANCÉ/ FRIEND NOT LIVING WITH RESPONDENT 2 CASUAL ACQUAINTANCE . 3 CLIENT/PROSTITUTE 4 OTHER _____ 5 (SPECIFY) (SKIP TO 622)	HUSBAND/PLACÉ/VIVAK/ PARTNER LIVING WITH RESPONDENT 1 PARTNER/ FIANCÉ/ FRIEND NOT LIVING WITH RESPONDENT 2 CASUAL ACQUAINTANCE . 3 CLIENT/PROSTITUTE 4 OTHER _____ 5 (SPECIFY) (SKIP TO 622)
620	CHECK 609 :	MARRIED ONLY ONCE [ ] MARRIED MORE THAN ONCE [ ] (SKIP TO 622)	MARRIED ONLY ONCE [ ] MARRIED MORE THAN ONCE [ ] (SKIP TO 622)	MARRIED ONLY ONCE [ ] MARRIED MORE THAN ONCE [ ] (SKIP TO 622)
621	CHECK 613 :	FIRST TIME WHEN STARTED LIVING WITH FIRST HUSBAND (SKIP TO 623) OTHER [ ]	FIRST TIME WHEN STARTED LIVING WITH FIRST HUSBAND (SKIP TO 623) OTHER [ ]	FIRST TIME WHEN STARTED LIVING WITH FIRST HUSBAND (SKIP TO 623) OTHER [ ]
622	How long ago did you first have sexual intercourse with this (second/third) person?	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ]	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ]	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ]
623	How many times during the last 12 months did you have sexual intercourse with this person? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF TIMES IS 95 OR MORE, WRITE '95'.	NUMBER OF TIMES [ ][ ]	NUMBER OF TIMES [ ][ ]	NUMBER OF TIMES [ ][ ]
624	How old is this person?	AGE OF PARTNER [ ][ ] DON'T KNOW 98	AGE OF PARTNER [ ][ ] DON'T KNOW 98	AGE OF PARTNER [ ][ ] DON'T KNOW 98
625	Apart from (this person/these two people), have you had sexual intercourse with any other person in the last 12 months?	YES . . . . . 1 (GO BACK TO 616 IN NEXT COLUMN) NO . . . . . 2 (PASSEZ À 627)	YES . . . . . 1 (GO BACK TO 616 IN NEXT COLUMN) NO . . . . . 2 (PASSEZ À 627)	
626	In total, with how many different people have you had sexual intercourse in the last 12 months? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'.			NUMBER OF PARTNERS LAST 12 MONTHS . . . [ ][ ] DON'T KNOW 98

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
627	In total, with how many different people have you had sexual intercourse in your lifetime? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'.	NUMBER OF PARTNERS IN LIFETIME . . . . . [ ][ ] DON'T KNOW 98	
628	PRESENCE OF OTHERS DURING THIS SECTION	YES NO CHILDREN <10 . . . . . 1 2 MALE ADULTS . . . . . 1 2 FEMALE ADULTS 1 2	
629	Do you know of a place where a person can get condoms?	YES . . . . . 1 NO 2	→ 701
630	Where is that? Any other place? PROBE TO IDENTIFY EACH TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. _____ (NAME OF PLACE(S))	**PUBLIC MEDICAL SECTOR** STATE/GOVERNMENT HOSPITAL . A HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . B **PRIVATE MEDICAL SECTOR** PRIVATE HOSPITAL/CLINIC . . . . . C HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . D FAMILY PLANNING CLINIC . . . E PRIVATE DOCTOR'S OFFICE . . . . . F PHARMACY . . . . . G **MIXED MEDICAL SECTOR** MIXED HOSPITAL/CLINIC . . . . . H HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . I FAMILY PLANNING CLINIC . . . . . J **NON INSTITUTIONAL MEDICAL SECTOR** MOBILE CLINIC . . . . . K FIELDWORKER/HEALTH PROMOTER L MIDWIFE/MATRON WITH OFFICE . M **OTHER NON-MEDICAL SOURCE** SHOP/ MARKET . . . . . N BAR . . . . . O AUTOMATIC DISPENSER . . . . . P SCHOOL . . . . . Q PARENTS/ FRIENDS . . . . . R **OTHER** _____ X (SPECIFY)	
631	If you wanted to, could you yourself get a condom?	YES . . . . . 1 NO . . . . . 2 DON'T KNOW/UNSURE 8	

G.2 2012 HDHS Man's Questionnaire

SECTION 3. MARRIAGE AND SEXUAL ACTIVITY

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
301	Are you currently married or living together with a woman as if married?	YES, CURRENTLY MARRIED . . . . . 1 YES, CURRENTLY PLACÉ . . . . . 2 YES, CURRENTLY VIVAVEK . . . . . 3 YES, LIVING WITH A WOMAN . . . . . 4 NO, NOT IN UNION 5	→ 304
302	Have you ever been married or lived together with a woman as if married?	YES, FORMERLY MARRIED PLACÉ/VIVAVEK . . . . . 1 YES, LIVED WITH A WOMAN . . . . . 2 NO 3	→ 313
303	What is your marital status now: are you widowed, divorced, or separated?	WIDOWED . . . . . 1 DIVORCED . . . . . 2 SEPARATED 3	→ 310
304	Is your (wife/partner) living with you now or is she staying elsewhere?	LIVING WITH HIM . . . . . 1 STAYING ELSEWHERE 2	
305	Do you have other wives or do you live with other women as if married?	YES (MORE THAN ONE) . . . . . 1 NO (ONLY ONE) 2	→ 307
306	Altogether, how many wives or live-in partners do you have?	TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS . . . [ ][ ]	
307	CHECK 305 : ONE WIFE/ PARTNER ☐ → Please tell me the name of (your wife/the woman you are living with as if married). MORE THAN ONE WIFE/ PARTNER ☐ → Please tell me the name of each of your wives or each woman you are living with as if married. RECORD THE NAME AND THE LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE FOR EACH WIFE AND LIVE-IN PARTNER. IF A WOMAN IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'. ASK 308 FOR EACH PERSON.	NAME / LINE NUMBER / 308 How old was (NAME) on her last birthday? / AGE _____ [ ][ ] [ ][ ] _____ [ ][ ] [ ][ ] _____ [ ][ ] [ ][ ] _____ [ ][ ] [ ][ ]	
309	CHECK 307 : ONE WIFE/ PARTNER ☐ MORE THAN ONE WIFE/ PARTNER ☐	→ 311A	
310	Have you been married or lived with a woman only once or more than once?	ONLY ONCE . . . . . 1 MORE THAN ONCE 2	→ 311A

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
311	In what month and year did you start living with your (wife/partner)?	MONTH . . . . . [ ][ ]	
311A	Now I would like to ask about your first (wife/partner). In what month and year did you start living with her?	DON'T KNOW MONTH . . . . . 98 YEAR . . . . . [ ][ ][ ][ ] DON'T KNOW YEAR 9998	→ 313
312	How old were you when you first started living with her?	AGE . . . . . [ ][ ]	
313	CHECK FOR THE PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.		
314	Now I would like to ask some questions about sexual activity in order to gain a better understanding of some important life issues.	NEVER HAD SEXUAL INTERCOURSE 00	→ 338
	How old were you when you had sexual intercourse for the very first time?	AGE IN YEARS . . . . . [ ][ ] FIRST TIME WHEN STARTED LIVING WITH (FIRST) WIFE/PARTNER 95	
315	Now I would like to ask you some questions about your recent sexual activity. Let me assure you again that your answers are completely confidential and will not be told to anyone. If we should come to any question that you don't want to answer, just let me know and we will go to the next question.		
316	When was the <u>last</u> time you had sexual intercourse?	DAYS AGO . . . . . 1 [ ][ ]	
	IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.	WEEKS AGO . . . . . 2 [ ][ ] MONTHS AGO . . . . . 3 [ ][ ] YEARS AGO . . . . . 4 [ ][ ]	→ 330

		LAST SEXUAL PARTNER	SECOND-TO-LAST SEXUAL PARTNER	THIRD-TO-LAST SEXUAL PARTNER
317	When was the last time you had sexual intercourse with this person?		DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ]	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ]
318	The last time you had sexual intercourse (with this second/third person), was a condom used?	YES . . . . . 1 NO . . . . . 2 (SKIP TO 320)	YES . . . . . 1 NO . . . . . 2 (SKIP TO 320)	YES . . . . . 1 NO . . . . . 2 (SKIP TO 320)
319	Was a condom used every time you had sexual intercourse with this person in the last 12 months?	YES . . . . . 1 NO 2	YES . . . . . 1 NO 2	YES . . . . . 1 NO 2
320	What was your relationship to this person with whom you had sexual intercourse? IF "RENMEN", "VIVAVEK", "FIANCÉE" OR "GIRLFRIEND", ASK: Were you living together as if married? IF YES, CIRCLE '1'. IF NO, CIRCLE '2'.	WIFE/PLACÉ/VIVAK/ PARTNER LIVING WITH RESPONDENT 1 PARTNER/ FIANCÉE FRIEND NOT LIVING WITH RESPONDENT 2 CASUAL ACQUAINTANCE . . . 3 PROSTITUTE/CLIENT 4 OTHER _____ 45 (SPECIFY) (SKIP TO 323)	WIFE/PLACÉ/VIVAK/ PARTNER LIVING WITH RESPONDENT 1 PARTNER/ FIANCÉE FRIEND NOT LIVING WITH RESPONDENT 2 CASUAL ACQUAINTANCE . . . 3 PROSTITUTE/CLIENT 4 OTHER _____ 5 (SPECIFY) (SKIP TO 323)	WIFE/PLACÉ/VIVAK/ PARTNER LIVING WITH RESPONDENT 1 PARTNER/ FIANCÉE FRIEND NOT LIVING WITH RESPONDENT 2 CASUAL ACQUAINTANCE . . . 3 PROSTITUTE/CLIENT 4 OTHER _____ 5 (SPECIFY) (SKIP TO 323)
321	CHECK 310 :	MARRIED ONLY ONCE [ ] MARRIED MORE THAN ONCE OR 310 NOT ASKED (SKIP TO 323) [ ]	MARRIED ONLY ONCE [ ] MARRIED MORE THAN ONCE OR 310 NOT ASKED (SKIP TO 323) [ ]	MARRIED ONLY ONCE [ ] MARRIED MORE THAN ONCE OR 310 NOT ASKED (SKIP TO 323) [ ]
322	CHECK 314 :	FIRST TIME WHEN STARTED LIVING WITH FIRST WIFE (SKIP TO 324) [ ] OTHER [ ]	FIRST TIME WHEN STARTED LIVING WITH FIRST WIFE (SKIP TO 324) [ ] OTHER [ ]	FIRST TIME WHEN STARTED LIVING WITH FIRST WIFE (SKIP TO 324) [ ] OTHER [ ]
323	How long ago did you first have sexual intercourse with this (second/third) person?	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ]	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ]	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ]
324	How many times during the last 12 months did you have sexual intercourse with this person? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF TIMES IS 95 OR MORE, WRITE '95'.	NUMBER OF TIMES [ ][ ]	NUMBER OF TIMES [ ][ ]	NUMBER OF TIMES [ ][ ]
325	How old is this person?	AGE OF PARTNER [ ][ ] DON'T KNOW 98	AGE OF PARTNER [ ][ ] DON'T KNOW 98	AGE OF PARTNER [ ][ ] DON'T KNOW 98
326	Apart from (this person/these two people), have you had sexual intercourse with any other person in the last 12 months?	YES . . . . . 1 (GO BACK TO 317 IN NEXT COLUMN) NO . . . . . 2 (SKIP TO 328)	YES . . . . . 1 (GO BACK TO 317 IN NEXT COLUMN) NO . . . . . 2 (SKIP TO 328)	
327	In total, with how many different people have you had sexual intercourse in the last 12 months? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'.			NUMBER OF PARTNERS LAST 12 MONTHS . . . [ ][ ] DON'T KNOW . . . 98

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
328	CHECK 320 (ALL COLUMNS) : AT LEAST ONE PARTNER IS PROSTITUTE ☐	NO PARTNERS ARE PROSTITUTES ☐	→ 330
329	CHECK 320 AND 318 (ALL COLUMNS) :	CONDOM USED WITH EVERY PROSTITUTE ☐	→ 333
	OTHER ☐		→ 334
330	In the last 12 months, did you pay anyone in exchange for having sexual intercourse?	YES . . . . . 1 NO 2	→ 332
331	Have you ever paid anyone in exchange for having sexual intercourse?	YES . . . . . 1 NO 2	→ 334
332	The last time you paid someone in exchange for having sexual intercourse, was a condom used?	YES . . . . . 1 NO 2	→ 334
333	Was a condom used during sexual intercourse every time you paid someone in exchange for having sexual intercourse in the last 12 months?	YES . . . . . 1 NO . . . . . 2 DON'T KNOW 8	
334	In total, with how many different people have you had sexual intercourse in your lifetime? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'.	NUMBER OF PARTNERS IN LIFETIME . . . . . ☐☐ DON'T KNOW 98	
335	CHECK 318, MOST RECENT PARTNER (FIRST COLUMN): CONDOM USED ☐	NOT ASKED ☐	→ 338
		NO CONDOM USED ☐	→ 338

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
337	From where did you obtain the condom the last time? PROBE TO IDENTIFY TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. _____ (NAME OF PLACE)	**PUBLIC MEDICAL SECTOR** STATE/GOVERNMENT HOSPITAL . 11 HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . 12 **PRIVATE MEDICAL SECTOR** PRIVATE HOSPITAL/CLINIC . . . . . 21 HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . 22 FAMILY PLANNING CLINIC . . . . . 23 PRIVATE DOCTOR'S OFFICE . . . . . 24 PHARMACY . . . . . 25 **MIXED MEDICAL SECTOR** MIXED HOSPITAL/CLINIC . . . . . 31 HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . 32 FAMILY PLANNING CLINIC . . . . . 33 **NON INSTITUTIONAL MEDICAL SECTOR** MOBILE CLINIC . . . . . 41 FIELDWORKER/HEALTH PROMOTER 42 MIDWIFE/MATRON WITH OFFICE 43 **OTHER NON-MEDICAL SOURCE** SHOP/ MARKET . . . . . 51 BAR . . . . . 52 AUTOMATIC DISPENSER . . . . . 53 SCHOOL . . . . . 54 PARENTS/ FRIENDS . . . . . 55 **OTHER** _____ 96 (SPECIFY)	→ 338A
338	Do you know of a place where a person can get condoms?	YES . . . . . 1 NO 2	→ 401
338A	Aside from the place you mentioned, do you know any other places where a person can get condoms?		

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
339	Where is that? Any other place? PROBE TO IDENTIFY EACH TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. _____ (NAME OF PLACE(S))	**PUBLIC MEDICAL SECTOR** STATE/GOVERNMENT HOSPITAL . A HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . B **PRIVATE MEDICAL SECTOR** PRIVATE HOSPITAL/CLINIC . . . . . C HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . D FAMILY PLANNING CLINIC . . . . . E PRIVATE DOCTOR'S OFFICE . . . . . F PHARMACY . . . . . G **MIXED MEDICAL SECTOR** MIXED HOSPITAL/CLINIC . . . . . H HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . I FAMILY PLANNING CLINIC . . . . . J **NON INSTITUTIONAL MEDICAL SECTOR** MOBILE CLINIC . . . . . K FIELDWORKER/HEALTH PROMOTER L MIDWIFE/MATRON WITH OFFICE M **OTHER NON-MEDICAL SOURCE** SHOP/ MARKET . . . . . N BAR . . . . . O AUTOMATIC DISPENSER . . . . . P SCHOOL . . . . . Q PARENTS/ FRIENDS . . . . . R **OTHER** _____ X (SPECIFY)	
340	If you wanted to, could you yourself get a condom?	YES . . . . . 1 NO 2	

G.3 2013 HSAPS Woman's Questionnaire

SECTION 6. MARRIAGE AND SEXUAL ACTIVITY

No.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
600A	CHECK FOR THE PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.		
600B	Now I would like to ask some questions about sexual activity in order to gain a better understanding of some important life issues. How old were you when you had sexual intercourse for the very first time?	NEVER HAD SEXUAL INTERCOURSE . . . . . 00 AGE IN YEARS . . . . . [ ][ ] FIRST TIME WHEN STARTED LIVING WITH FIRST HUSBAND/PARTNER 95	
601	Are you currently married or living together with a man as if married?	YES, CURRENTLY MARRIED . . . . . 1 YES, CURRENTLY PLACÉE . . . . . 2 YES, CURRENTLY VIVAVEK . . . . . 3 YES, LIVING WITH A MAN . . . . . 4 NO, NOT IN UNION 5	→ 613
602	Have you ever been married, placée, vivavek or lived together with a man as if married?	YES, FORMERLY MARRIED/PLACÉE VIVAVEK . . . . . 1 YES, LIVED WITH A MAN . . . . . 2 NO 3	→ 618
603	CHECK 600B: EVER HAD SEXUAL INTERCOURSE? HAS HAD SEXUAL INTERCOURSE [ ] ↓ NEVER HAD SEXUAL INTERCOURSE [ ] → 651		
604	Now I would like to ask you some questions about your recent sexual activity. Let me assure you again that your answers are completely confidential and will not be told to anyone. If we should come to any question that you don't want to answer, just let me know and we will go to the next question.		
605	When was the last time you had sexual intercourse with anyone? IF YEARS AGO, PROBE: Have you had sexual intercourse with anyone in the last 12 months? IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.	DAYS AGO . . . . . 1 [ ][ ] WEEKS AGO . . . . . 2 [ ][ ] MONTHS AGO . . . . . 3 [ ][ ] YEARS AGO . . . . . 4 [ ][ ]	→ 649
606	Who did you have sexual intercourse with the last time? PROBE: What is your relationship to him?	BOYFRIEND . . . . . 1 CASUAL ACQUAINTANCE . . . . . 2 CLIENT/PROSTITUTE . . . . . 3 OTHER _____ 6 (SPECIFY)	
607	How old is he?	AGE OF PARTNER . . . . . [ ][ ] DON'T KNOW 98	
608	The last time you had sexual intercourse with him, was a condom used?	YES . . . . . 1 NO 2	→ 610
609	Was a condom used every time you had sexual intercourse with him in the last 12 months?	YES . . . . . 1 NO 2	
610	When did you first have sexual intercourse with him? PROBE: How long ago was that?	DAYS AGO . . . . . 1 [ ][ ] WEEKS AGO . . . . . 2 [ ][ ] MONTHS AGO . . . . . 3 [ ][ ] YEARS AGO . . . . . 4 [ ][ ]	

No.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
611	How many times during the last 12 months did you have sexual intercourse with him? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF TIMES IS 95 OR MORE, WRITE '95'.	NUMBER OF TIMES . . . . . [ ][ ]	
612	So far, we have been speaking about your most recent sexual partner. Now I want to speak with you about other sexual partners you have had in the last 12 months. Have you had sexual intercourse with any other person in the last 12 months?	YES . . . . . 1 NO 2	→ 639B → 649

No.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
613	Is your (husband/partner/monsieur) living with you now or is he staying elsewhere?	LIVING WITH HER . . . . . 1 STAYING ELSEWHERE 2	
614	RECORD THE HUSBAND'S/PARTNER'S/MONSIEUR'S NAME AND LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE. IF HE IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'.	NAME _____ LINE NO . . . . . [ ][ ]	
615	Does your (husband/partner/monsieur) have other wives or does he live with other women as if married?	YES . . . . . 1 NO . . . . . 2 DON'T KNOW 8	→ 620
616	Including yourself, in total, how many wives or live-in partners does he have?	TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS . . . . . [ ][ ] DON'T KNOW 98	
617	Are you the first, second … wife?	RANK . . . . . [ ][ ]	→ 620
618	What is your marital status now: are you widowed, divorced, or separated?	WIDOWED . . . . . 1 DIVORCED . . . . . 2 SEPARATED 3	
619	CHECK 618: WIDOWED → How long ago did your husband die? DIVORCED/ SEPARATED → How long ago did you get (divorced/separated)? IF LESS THAN ONE MONTH, RECORD "00".	MONTHS AGO . . . . . 1 ... [ ][ ] YEARS AGO . . . . . 2 ... [ ][ ]	
620	Have you been married, placée, vivavek or lived with a man only once or more than once?	ONLY ONCE . . . . . 1 MORE THAN ONCE 2	
621	CHECK 620: NUMBER OF TIMES MARRIED/LIVED WITH A MAN ONLY ONCE → In what month and year did you start living with your (husband/partner/ "monsieur")? MORE THAN ONCE → Now I would like to ask about your first (husband/partner/ "monsieur"). In what month and year did you start living with him?	MONTH . . . . . [ ][ ] DON'T KNOW MONTH . . . . . 98 YEAR ..... [ ][ ][ ][ ] DON'T KNOW YEAR 9998	→ 623
622	How old were you when you first started living with him?	AGE . . . . . [ ][ ]	
623	CHECK 601 AND 618: MARITAL STATUS DIVORCED, SEPARATED, OR WIDOWED MARRIED, PLACÉE, VIVAVEK/ LIVING TOGETHER		→ 633

No.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
624	Now I would like to ask you some questions about your recent sexual activity. Let me assure you again that your answers are completely confidential and will not be told to anyone. if we should come to any question that you don't want to answer, just let me know and we will go to the next question.		
625	When was the last time you had sexual intercourse with anyone? IF YEARS AGO, PROBE: Have you had sexual intercourse with anyone in the last 12 months? IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.	DAYS AGO . . . . . 1 WEEKS AGO . . . . . 2 MONTHS AGO . . . . . 3 YEARS AGO 4	→ 649
626	Who did you have sexual intercourse with the last time? PROBE: What is your relationship to him?	BOYFRIEND . . . . . 1 CASUAL ACQUAINTANCE . . . . . 2 CLIENT/PROSTITUTE . . . . . 3 LATE HUSBAND/LATE PARTNER . . . 4 EX- HUSBAND/EX-PARTNER . . . . . 5 OTHER _____ 6 (SPECIFY)	 → 627B → 627C
627A 627B 627C	How old is he? How old was your late husband/late partner at that time? How old was your ex-husband/ex-parnter at that time?	AGE . . . . . . DON'T KNOW 98	
628	The last time you had sexual intercourse with him, was a condom used?	YES . . . . . 1 NO 2	 → 630
629	Was a condom used every time you had sexual intercourse with him in the last 12 months?	YES . . . . . 1 NO 2	
630	When did you first have sexual intercourse with him? PROBE: How long ago was that?	DAYS AGO . . . . . 1 WEEKS AGO . . . . . 2 MONTHS AGO . . . . . 3 YEARS AGO 4	
631	How many times during the last 12 months did you have sexual intercourse with him? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF TIMES IS 95 OR MORE, WRITE '95'.	NUMBER OF TIMES	
632	So far we have been speaking about your most recent sexual partner. Now I want to speak with you about other sexual partners you have had in the last 12 months. Have you had sexual intercourse with any other person in the last 12 months?	YES . . . . . 1 NO 2	→ 639B → 649

No.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
633	Now I will ask you some questions about sexual relations with your husband. Let me assure you again that your answers are completely confidential and will not be told to anyone. If we should come to any question that you don't want to answer, just let me know and we will go to the next question.		
634	CHECK 620: NUMBER OF TIMES MARRIED/LIVED WITH A MAN ONLY ONCE ☐ → When was the last time you had sexual intercourse with your husband/partner/ "monsieur"? MORE THAN ONCE ☐ → When was the last time you had sexual intercourse with your current husband/partner/ "monsieur"? IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.	DAYS AGO . . . . . 1 WEEKS AGO . . . . . 2 MONTHS AGO . . . . . 3 YEARS AGO 4	→ 639
635	The last time you had sexual intercourse with him, was a condom used?	YES . . . . . 1 NO 2	→ 637
636	Was a condom used every time you had sexual intercourse with him in the last 12 months?	YES . . . . . 1 NO 2	
637	CHECK 620: NUMBER OF TIMES MARRIED/LIVED WITH A MAN ONLY ONCE ☐ → When did you first have sexual intercourse with your husband/partner/ "monsieur"? MORE THAN ONCE ☐ → When was the first time you had sexual intercourse with your current husband/partner/ "monsieur"? IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.	DAYS AGO . . . . . 1 WEEKS AGO . . . . . 2 MONTHS AGO . . . . . 3 YEARS AGO 4	
638	How many times during the last 12 months did you have sexual intercourse with him? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF TIMES IS 95 OR MORE, WRITE '95'.	NUMBER OF TIMES	
639	So far we have been speaking about your (husband/partner/ "monsieur"). Now I want to speak with you about other sexual partners you may have had in the last 12 months. Let me assure you again that no one else will know what you tell me. Apart from your current (husband/partner/ "monsieur"), have you had sexual intercourse with any other person in the last 12 months?	YES . . . . . 1 NO 2	→ 649
639A	CHECK 620: NUMBER OF TIMES MARRIED/LIVED WITH A MAN ONLY ONCE ☐ → When was the last time you had sexual intercourse with someone other than your husband/partner/"monsieur" ? MORE THAN ONCE ☐ → When was the last time you had sexual intercourse with someone other than your current husband/partner/ "monsieur"?	DAYS AGO . . . . . 1 WEEKS AGO . . . . . 2 MONTHS AGO 3	
639B	When was the last time you had sexual intercourse with this other person?		

		OTHER PARTNERS	
		PARTNER 1	PARTNER 2
640	What is your relationship to this person?	BOYFRIEND . . . . . 1 CASUAL ACQUAINTANCE . . . . . 2 CLIENT/PROSTITUTE . . . . . 3 LATE HUSBAND/ LATE PARTNER . . . . . 4 (SKIP TO 641B) EX-HUSBAND/ EX-PARTNER . . . . . 5 (SKIP TO 641C) OTHER_____ 6 (SPECIFY)	BOYFRIEND . . . . . 1 CASUAL ACQUAINTANCE . . . . . 2 CLIENT/PROSTITUTE . . . . . 3 LATE HUSBAND/ LATE PARTNER . . . . . 4 (SKIP TO 641B) EX-HUSBAND/ EX-PARTNER . . . . . 5 (SKIP TO 641C) OTHER_____ 6 (SPECIFY)
641A 641B 641C	How old is this person? How old was your late husband/partner at that time? How old was your ex-husband/ex-partner at that time?	AGE OF PARTNER . . . . . [ ][ ] DON'T KNOW 98	AGE OF PARTNER . . . . . [ ][ ] DON'T KNOW 98
642	When was the last time you had sexual intercourse with him?		DAYS AGO ..... 1 [ ][ ] WEEKS AGO ... 2 [ ][ ] MONTHS AGO ... 3 [ ][ ]
643	The last time you had sexual intercourse with him, was a condom used?	YES . . . . . 1 NO . . . . . 2 (SKIP TO 645)	YES . . . . . 1 NO . . . . . 2 (SKIP TO 645)
644	Was a condom used every time you had sexual intercourse with him in the last 12 months?	YES . . . . . 1 NO 2	YES . . . . . 1 NO 2
645	When did you first have sexual intercourse with him? PROBE: How long ago was that?	DAYS AGO ..... 1 [ ][ ] WEEKS AGO ... 2 [ ][ ] MONTHS AGO ... 3 [ ][ ] YEARS AGO ... 4 [ ][ ]	DAYS AGO ..... 1 [ ][ ] WEEKS AGO ... 2 [ ][ ] MONTHS AGO ... 3 [ ][ ] YEARS AGO ... 4 [ ][ ]
646	How many times during the last 12 months did you have sexual intercourse with him? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBERO FO TIMES IS 95 OR MORE, WRITE '95'.	NUMBER OF TIMES . . . . . [ ][ ] DON'T KNOW 98	NUMBER OF TIMES . . . . . [ ][ ] DON'T KNOW 98
647	Have you had sexual intercourse with anyone else in the last 12 months?	YES . . . . . 1 (GO BACK TO 640 IN NEXT COLUMN) NO . . . . . 2 (SKIP TO 649)	YES . . . . . 1 NO . . . . . 2 (SKIP TO 649)
648	Including the three you have told me about, with how many other persons have you had sexual intercourse in the last 12 months? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'.		NUMBER OF PARTNERS LAST 12 MONTHS [ ][ ] DON'T KNOW 98

No	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
649	In total, with how many different pesons have you had sexual intercourse in your lifetime? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'.	NUMBER OF PARTNERS IN LIFETIME . . . . . [ ][ ] DON'T KNOW 98	
650	PRESENCE OF OTHERS DURING THIS SECTION	YES NO CHILDREN <10 . . . . . 1 2 MALE ADULTS . . . . . 1 2 FEMALE ADULTS 1 2	
651	Do you know of a place where a person can get condoms?	YES . . . . . 1 NO 2	→ 901
652	Where is that? Any other place? PROBE TO IDENTIFY EACH TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. _____ (NAME OF PLACE(S))	**PUBLIC MEDICAL SECTOR** STATE/GOVERNMENT HOSPITAL . A HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . B **PRIVATE MEDICAL SECTOR** PRIVATE HOSPITAL/CLINIC . . . . . C HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . D FAMILY PLANNING CLINIC . . . . . E PRIVATE DOCTOR'S OFFICE . . . . . F PHARMACY . . . . . G **MIXED MEDICAL SECTOR** MIXED HOSPITAL/CLINIC . . . . . H HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . I FAMILY PLANNING CLINIC . . . . . J **NON INSTITUTIONAL MEDICAL SECTOR** MOBILE CLINIC . . . . . K FIELDWORKER/HEALTH PROMOTER L MIDWIFE/MATRON WITH OFFICE . M **OTHER NON-MEDICAL SOURCE** SHOP/ MARKET . . . . . N BAR . . . . . O AUTOMATIC DISPENSER . . . . . P SCHOOL . . . . . Q PARENTS/ FRIENDS . . . . . R OTHER _____ X (SPECIFY)	
653	If you wanted to, could you yourself get a condom?	YES . . . . . 1 NO . . . . . 2 DON'T KNOW/UNSURE 8	

G.4 2013 HSAPS Man's Questionnaire

SECTION 4. MARRIAGE AND SEXUAL ACTIVITY

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
400A	CHECK FOR THE PRESENCE OF OTHERS. BEFORE CONTINUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.		
400B	Now I would like to ask some questions about sexual activity in order to gain a better understanding of some important life issues. How old were you when you had sexual intercourse for the very first time?	NEVER HAD SEXUAL INTERCOURSE . . . . . 00 AGE IN YEARS . . . . . [ ][ ] FIRST TIME WHEN STARTED LIVING WITH (FIRST) WIFE/PARTNER 95	
401	Are you currently married or living together with a woman as if married?	YES, CURRENTLY MARRIED . . . . . 1 YES, CURRENTLY PLACÉ . . . . . 2 YES, CURRENTLY VIVAVEK . . . . . 3 YES, LIVING WITH A WOMAN . . . . . 4 NO, NOT IN UNION 5	→ 406
402	Have you ever been married or lived together with a woman as if married?	YES, FORMERLY MARRIED/ PLACÉ/VIVAVEK . . . . . 1 YES, LIVED WITH A WOMAN . . . . . 2 NO 3	→ 404
403	CHECK 400B: HAD SEXUAL INTERCOURSE? HAD SEXUAL INTERCOURSE [ ] (SKIP TO 413) NEVER HAD SEXUAL INTERCOURSE [ ]		→ 454
404	What is your marital status now: are you widowed, divorced, or separated?	WIDOWED . . . . . 1 DIVORCED . . . . . 2 SEPARATED 3	→ 405B
405A 405B	How long ago did you wife die? How long ago did you get divorced/separated? IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.	DAYS AGO . . . . . 1 [ ][ ] WEEKS AGO . . . . . 2 [ ][ ] MONTHS AGO . . . . . 3 [ ][ ] YEARS AGO . . . . . 4 [ ][ ]	→ 410
406	Is your (wife/placé/vivavek/partner) living with you now or is she staying elsewhere?	LIVING WITH HIM . . . . . 1 STAYING ELSEWHERE 2	
407	Do you have more than one wife/placé/vivavek/partner or woman you live with as if married?	YES (MORE THAN ONE) . . . . . 1 NO (ONLY ONE) 2	→ 409
408	Altogether, how many wives/placés/vivaveks/partners or women you live with as if married do you have?	TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS . . . . . [ ][ ]	
409	CHECK 407: ONE WIFE/ PARTNER [ ] MORE THAN ONE WIFE/ PARTNER [ ]		→ 411B
410	Have you been married or lived with a woman only once or more than once?	ONLY ONCE . . . . . 1 MORE THAN ONCE 2	→ 411B
411A 411B	In what month and year did you start living with your (wife/partner)? Now I would like to ask about your first (wife/partner). In what month and year did you start living with her?	MONTH . . . . . [ ][ ] DON'T KNOW MONTH . . . . . 98 YEAR . . . . . [ ][ ][ ][ ] DON'T KNOW YEAR 9998	→ 413
412	How old were you when you first started living with her?	AGE . . . . . [ ][ ]	

No	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
413	Now I would like to ask you some questions about your recent sexual activity. Let me assure you again that your answers are completely confidential and will not be told to anyone. If we should come to any question that you don't want to answer, just let me know and we will go to the next question.		
414	When was the <u>last</u> time you had sexual intercourse? IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.	DAYS AGO . . . . . 1 WEEKS AGO . . . . . 2 MONTHS AGO . . . . . 3 YEARS AGO 4	→ 446
415	CHECK 401:	MARRIED OR LIVING TOGETHER ☐ NOT IN UNION ☐	→ 427B
416	CHECK 407: MORE THAN ONE WIFE	NO (ONE WIFE ONLY) ☐ YES (MORE THAN ONE WIFE) ☐	→ 417B

417A	Please tell me the name of (your wife/placé/vivavek/the woman you are living with as if married).
417B	Please tell me the name of each of (your wives /placé/vivavek/woman you are living with as if married).
418	ENTER IN THE TABLE THE NAME AND THE LINE NUMBER FROM THE HOUSHELD QUESTIONNAIRE FOR EACH WIFE/WOMAN. ASK THE QUESTIONS ABOUT ALL WIVES/WOMEN, STARTING WITH THE WOMAN IN THE FIRST COLUMN. IF THERE ARE MORE THAN THREE WIVES/WOMEN, USE ADDITIONAL QUESTIONNAIRES. IF A WOMAN IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'.

		FIRST WIFE/WOMAN	SECOND WIFE/WOMAN	THIRD WIFE/WOMAN
419	NAME AND HOUSEHOLD LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE.	NAME _____ HH LINE NUMBER [ ][ ]	NAME _____ HH LINE NUMBER [ ][ ]	NAME _____ HH LINE NUMBER [ ][ ]
420	How old was (NAME) on her last birthday?	AGE OF WIFE [ ][ ] DON'T KNOW 98	AGE OF WIFE [ ][ ] DON'T KNOW 98	AGE OF WIFE [ ][ ] DON'T KNOW 98
421	When was the last time you had sexual intercourse with (NAME)? IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS.	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ] (IF YEARS AGO SKIP TO 426)	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ] (IF YEARS AGO SKIP TO 426)	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ] (IF YEARS AGO SKIP TO 426)
422	The last time you had sexual intercourse with (NAME), was a condom used?	YES . . . . . 1 NO . . . . . 2 (SKIP TP 424)	YES . . . . . 1 NO . . . . . 2 (SKIP TO 424)	YES . . . . . 1 NO . . . . . 2 (SKIP TO 424)
423	Was a condom used every time you had sexual intercourse with (NAME)?	YES . . . . . 1 NO 2	YES . . . . . 1 NO 2	YES . . . . . 1 NO 2
424	When did you first have sexual intercourse with (NAME)? PROBE: How long ago was that?	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ]	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ]	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ]
425	How many times during the last 12 months did you have sexual intercourse with (NAME)? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF TIMES IS 95 OR MORE, WRITE '95'.	NUMBER OF TIMES [ ][ ] DON'T KNOW 98	NUMBER OF TIMES [ ][ ] DON'T KNOW 98	NUMBER OF TIMES [ ][ ] DON'T KNOW 98
426	CHECK 419: ANOTHER WIFE?	YES . . . . . 1 (GO BACK TO 420 IN NEXT COLUMN) NO 2	YES . . . . . 1 (GO BACK TO 420 IN NEXT COLUMN) NO 2	YES . . . . . 1 (GO BACK TO 420 IN THE FIRST COLUMN OF NEW QUESTIONNAIRE) NO . . . . . 2 (SKIP TO 427A)

No	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
427A	Now I want to ask you about other types of sexual partners you may have had recently. In the last 12 months, have you had sex with a prostitute? IF NO, PROBE: Let me assure you again that anything you tell me is completely confidential and will not be told to anyone else. In the last 12 months, did you pay anyone in exchange for having sexual intercourse?	YES . . . . . 1 NO 2	→ 428A → 435
427B	Now I would like to ask you about different types of sexual partners you may have had recently. In the last 12 months, have you had sex with a prostitute? IF NO, PROBE: Let me assure you again that anything you tell me is completely confidential and will not be told to anyone else. In the last 12 months, did you pay anyone in exchange for having sexual intercourse?		

		LAST PAID SEXUAL PARTNER	SECOND-TO-LAST PAID SEXUAL PARTNER	THIRD-TO-LAST PAID SEXUAL PARTNER
428A 428B	When was the last time you had sex with a prostitute or the last time that you paid someone for sexual intercourse? When was the last time you had sex with this other prostitute or this other person that you paid to have sex with?	DAYS AGO ... 1 WEEKS AGO ... 2 MONTHS AGO ... 3	DAYS AGO ... 1 WEEKS AGO ... 2 MONTHS AGO ... 3	DAYS AGO ... 1 WEEKS AGO ... 2 MONTHS AGO ... 3
429	The last time you had sexual intercourse with this person, was a condom used?	YES . . . . . 1 NO . . . . . 2 (SKIP TO 431)	YES . . . . . 1 NO . . . . . 2 (SKIP TO 431)	YES . . . . . 1 NO . . . . . 2 (SKIP TO 431)
430	Was a condom used every time you had sexual intercourse with this person?	YES . . . . . 1 NO 2	YES . . . . . 1 NO 2	YES . . . . . 1 NO 2
431	When did you first have sexual intercourse with this person? PROBE How long ago was that?	DAYS AGO ... 1 WEEKS AGO ... 2 MONTHS AGO ... 3 YEARS AGO ... 4	DAYS AGO ... 1 WEEKS AGO ... 2 MONTHS AGO ... 3 YEARS AGO ... 4	DAYS AGO ... 1 WEEKS AGO ... 2 MONTHS AGO ... 3 YEARS AGO ... 4
432	How many times during the last 12 months did you have sexual intercourse with this person? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF TIMES IS 95 OR MORE, WRITE '95'.	NUMBER OF TIMES ..... DON'T KNOW 98	NUMBER OF TIMES ..... DON'T KNOW 98	NUMBER OF TIMES ..... DON'T KNOW 98
433	Have you had sexual intercourse with another prostitute or paid anyone else to have sexual intercourse in the past 12 months?	YES . . . . . 1 (GO BACK TO 428B IN NEXT COLUMN) NO . . . . . 2 (SKIP TO 435)	YES . . . . . 1 (GO BACK TO 428B IN NEXT COLUMN) NO . . . . . 2 (SKIP TO 435)	YES . . . . . 1 NO . . . . . 2 (SKIP TO 435)
433A	Was a condom used every time you had sex with a prostitute or paid someone in exchange for having sexual intercourse in the last 12 months?			YES . . . . . 1 NO 2
434	Including the three you have told me about, with how many different prostitutes did you have sex or how many different persons did you pay to have sex with in the last 12 months?			NUMBER OF PROSTITUTES/ PEOPLE PAID FOR SEX IN LAST 12 MONTHS . . . DON'T KNOW . . . 98

No	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
435	CHECK 401: MARRIED OR LIVING TOGETHER ☐ NOT IN UNION ☐		436B
436A	So far I have asked you about having sexual intercourse with your (partner/wife) as well as with prostitutes or people you may have paid for sex. Now, I want to ask you about other partners you may have had sexual intercourse with in the last 12 months. Have you had sexual intercourse with anyone else in the last 12 months?	YES . . . . . 1 NO 2	447
436B	So far I have asked you about having sexual intercourse with prostitutes or persons you have paid for sexual intercourse. Now, I want to ask you about other partners you may have had sexual intercourse with in the last 12 months. Have you had sexual intercourse with anyone else in the last 12 months?		

		LAST OTHER SEXUAL PARTNER	SECOND-TO-LAST OTHER SEXUAL PARTNER	THIRD-TO-LAST OTHER SEXUAL PARTNER
437	What is your relationship with this partner?	GIRLFRIEND . . . . . 1 CASUAL ACQUAINTANCE ... 2 EX-WIFE/ EX-PARTNER ..... 3 (SKIP TO 438B) ← LATE WIFE/ LATE PARTNER ... 4 (SKIP TO 438C) ← OTHER _____ 66 SPECIFY	GIRLFRIEND . . . . . 1 CASUAL ACQUAINTANCE ... 2 EX-WIFE/ EX-PARTNER . . . 3 (SKIP TO 438B) ← LATE WIFE/ LATE PARTNER ... 4 (SKIP TO 438C) ← OTHER _____ 6 SPECIFY	GIRLFRIEND . . . . . 1 CASUAL ACQUAINTANCE ... 2 EX-WIFE/ EX-PARTNER . . . . 3 (SKIP TO 438B) ← LATE WIFE/ LATE PARTNER ... 4 (SKIP TO 438C) ← OTHER _____ 6 SPECIFY
438A 438B 438C	How old is this person? How old was your ex-wife/ex-partner at that time? How old was your late wife/late partner at that time?	AGE OF PARTNER ... [ ][ ] DON'T KNOW 98	AGE OF PARTNER . . [ ][ ] DON'T KNOW 98	AGE OF PARTNER .... [ ][ ] DON'T KNOW 98
439	When was the last time you had sexual intercourse with (this person/her)?	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ]	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ]	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ]
440	The last time you had sexual intercourse with (this person/her), was a condom used?	YES . . . . . 1 NO . . . . . 2 (SKIP TO 442) ←	YES . . . . . 1 NO . . . . . 2 (SKIP TO 442) ←	YES . . . . . 1 NO . . . . . 2 (SKIP TO 442) ←
441	Was a condom used every time you had sexual intercourse with (this person/her)?	YES . . . . . 1 NO 2	YES . . . . . 1 NO 2	YES . . . . . 1 NO 2
442	When did you first have sexual intercourse with this woman? PROBE: How long ago was that?	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ]	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ]	DAYS AGO 1 [ ][ ] WEEKS AGO 2 [ ][ ] MONTHS AGO 3 [ ][ ] YEARS AGO 4 [ ][ ]
443	How many times during the last 12 months did you have sexual intercourse with her? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF TIMES IS 95 OR MORE, WRITE '95'.	NUMBER OF TIMES ..... [ ][ ] DON'T KNOW . . . 98	NUMBER OF TIMES ..... [ ][ ] DON'T KNOW . . . 98	NUMBER OF TIMES ..... [ ][ ] DON'T KNOW 98
444	Have you had sexual intercourse with anyone else in the last 12 months?	YES . . . . . 1 (GO BACK 437 ← IN NEXT COLUMN NO . . . . . 2 (SKIP TO 447) ←	YES . . . . . 1 (GO BACK TO 437 ← IN NEXT COLUMN) NO . . . . . 2 (SKIP TO 447) ←	YES . . . . . 1 NO . . . . . 2 (SKIP TO 447) ←
445	Including the three you have told me about, with how many other persons have you had sexual intercourse in the last 12 months? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'.			NUMBER OF OTHER PARTNERS LAST 12 MONTHS ..... [ ][ ] DON'T KNOW . . . . 98 (GO TO 447) ←

No	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
446	In the last 12 months, did you pay anyone in exchange for having sexual intercourse?	YES . . . . . 1 NO 2	→ 449 → 448
447	CHECK 427A AND 427B: DID NOT HAVE SEX WITH A PROSTITUTE IN PAST 12 MONTHS ☐ ↓ HAD SEX WITH A PROSTITUTE IN PAST 12 MONTHS ☐ →		450
448	Have you ever paid anyone in exchange for having sexual intercourse?	YES . . . . . 1 NO 2	→ 450
449	The last time you paid someone in exchange for having sexual intercourse, was a condom used?	YES . . . . . 1 NO 2	→ 450
449A	Was a condom used during sexual intercourse every time you paid someone in exchange for having sexual intercourse in the last 12 months?	YES . . . . . 1 NO 2	
450	In total, with how many different people have you had sexual intercourse in your lifetime? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, WRITE '95'.	NUMBER OF PARTNERS IN LIFETIME . . . . . ☐☐ DON'T KNOW 98	
451	CHECK FOR CONDOM USE WITH ALL PARTNERS: 422 (ALL COLUMNS), 429 (ALL COLUMNS), 440 (ALL COLUMNS) , AND 449 NOT ASKED ☐ → CONDOM USED WITH AT LEAST ONE PARTNER ☐ ↓ NO CONDOM USED WITH ANY PARTNER ☐ →		454 454
453	From where did you obtain the condom the last time? PROBE TO IDENTIFY TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. _____ (NAME OF PLACE)	**PUBLIC MEDICAL SECTOR** STATE/GOVERNMENT HOSPITAL . 11 HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . 12 **PRIVATE MEDICAL SECTOR** PRIVATE HOSPITAL/CLINIC . . . . . 21 HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . 22 FAMILY PLANNING CLINIC . . . . . 23 PRIVATE DOCTOR'S OFFICE . . . . . 24 PHARMACY . . . . . 25 **MIXED MEDICAL SECTOR** MIXED HOSPITAL/CLINIC . . . . . 31 HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . 32 FAMILY PLANNING CLINIC . . . . . 33 **NON INSTITUTIONAL MEDICAL SECTOR** MOBILE CLINIC . . . . . 41 FIELDWORKER/HEALTH PROMOTER 42 MIDWIFE/MATRON WITH OFFICE . . . . . 43 **OTHER NON-MEDICAL SOURCE** SHOP/MARKET . . . . . 51 BAR . . . . . 52 AUTOMATIC DISPENSER . . . . . 53 SCHOOL . . . . . 54 PARENTS/FRIENDS . . . . . 55 OTHER _____ 96 (SPECIFY)	→ 454A

No	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
454	Do you know of a place where a person can get condoms?	YES . . . . . 1 NO 2	→ 901
454A	Aside from the place you mentioned, do you know any other places where a person can get condoms?		
455	Where is that? Any other place? PROBE TO IDENTIFY EACH TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. _____ (NAME OF PLACE(S))	**PUBLIC MEDICAL SECTOR** STATE/GOVERNMENT HOSPITAL . A HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . B **PRIVATE MEDICAL SECTOR** PRIVATE HOSPITAL/CLINIC . . . . . C HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . D FAMILY PLANNING CLINIC . . . . . E PRIVATE DOCTOR'S OFFICE . . . . . F PHARMACY . . . . . G **MIXED MEDICAL SECTOR** MIXED HOSPITAL/CLINIC . . . . . H HEALTH CENTER (CAL/CSL)/ DISPENSARY . . . . . I FAMILY PLANNING CLINIC . . . . . J **NON INSTITUTIONAL MEDICAL SECTOR** MOBILE CLINIC . . . . . K FIELDWORKER/HEALTH PROMOTER L MIDWIFE/MATRON WITH OFFIC . . . M **OTHER NON-MEDICAL SOURCE** SHOP/MARKET . . . . . N BAR . . . . . O AUTOMATIC DISPENSER . . . . . P SCHOOL . . . . . Q PARENTS/FRIENDS . . . . . R OTHER _____ X (SPECIFY)	
456	If you wanted to, could you yourself get a condom?	YES . . . . . 1 NO 2	