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EVALUATING HIV ESTIMATES FROM NATIONAL POPULATION-BASED SURVEYS FOR BIAS RESULTING FROM NON-RESPONSE

DHS ANALYTICAL STUDIES 12



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MEASURE DHS assists countries worldwide in the collection and use of data to monitor and evaluate population, health, and nutrition programs. Additional information about the MEASURE DHS project can be obtained by contacting Macro International Inc., Demographic and Health Research Division, 11785 Beltsville Drive, Suite 300, Calverton, MD 20705 (telephone: 301-572-0200; fax: 301-572-0999; e-mail: reports@macrointernational.com; internet: www.measuredhs.com).

The main objectives of the MEASURE DHS project are:

- to provide decisionmakers in survey countries with information useful for informed policy choices;
- to expand the international population and health database;
- to advance survey methodology; and
- to develop in participating countries the skills and resources necessary to conduct high-quality demographic and health surveys.

DHS Analytical Studies No. 12

**Evaluating HIV Estimates from National
Population-Based Surveys for Bias Resulting
from Non-Response**

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Preface

One of the most significant contributions of the MEASURE DHS program is the creation of an internationally comparable body of data on the demographic and health characteristics of populations in developing countries.

The *DHS Comparative Reports* series examines these data across countries in a comparative framework. The *DHS Analytical Studies* series focuses on analysis of specific topics. The principal objectives of both series are to provide information for policy formulation at the international level and to examine individual country results in an international context.

While *Comparative Reports* are primarily descriptive, *Analytical Studies* comprise in-depth, focused studies on a variety of substantive topics. The studies are based on a variable number of data sets, depending on the topic being examined. A range of methodologies is used in these studies including multivariate statistical techniques.

The topics covered in *Analytical Studies* are selected by MEASURE DHS staff in conjunction with the U.S. Agency for International Development.

It is anticipated that the *DHS Analytical Studies* will enhance the understanding of analysts and policymakers regarding significant issues in the fields of international population and health.

Ann Way
Project Director

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Executive Summary

Reliable data on HIV prevalence are essential for assessing the scope of and effectively managing the response to the epidemic. Antenatal clinic-based surveillance is commonly used to monitor trends in HIV in developing countries that have generalized epidemics. Recently, HIV seroprevalence data have been also collected in national population-based surveys, such as the Demographic and Health Surveys (DHS) and AIDS Indicators Surveys (AIS). Such surveys enable direct estimation of population HIV prevalence. A major challenge for population-based surveys is bias resulting from non-response, both from refusal and absence. In this study, we evaluate national HIV prevalence estimates from DHS and AIS surveys for bias resulting from non-response in the surveys.

Data are from 17 recent national DHS and AIS surveys with HIV testing – Burkina Faso, Cambodia, Cameroon, Cote d’Ivoire, the Dominican Republic, Ethiopia, Ghana, India, Kenya, Lesotho, Malawi, Mali, Rwanda, Tanzania, Uganda, Zambia, and Zimbabwe – conducted during 2001 and 2006. Blood samples were collected and tested for HIV using standard laboratory and quality-control procedures. In the first three surveys, in Mali, Zambia, and the Dominican Republic, HIV status could not be linked to the characteristics and behaviors of the survey respondents. For each of the other 14 countries with HIV serostatus data linked to individual characteristics and behaviors, we predict HIV prevalence among non-responding adults on the basis of multivariate statistical models of HIV for those who were interviewed and tested, using a common set of predictor variables. Predictions are made separately for two groups of non-respondents: not interviewed/not tested and interviewed/not tested. Adjusted HIV prevalence is calculated as a weighted average of observed prevalence in the interviewed/tested group and predicted prevalence in the two non-tested groups. Predictions are made separately for adult males and females.

In the 14 countries with linked data, the HIV testing rate varied from a low of 63 percent among men in Malawi and Zimbabwe to a high of 97 percent among women in Rwanda. Non-response rate was higher among urban, more educated, and wealthier men and women but had no clear association with various risk and protective behavioral factors. Non-tested men had significantly higher predicted HIV prevalence than those tested in 7 of the 14 countries, and non-tested women had significantly higher predicted prevalence than those tested in 5 of the 14 countries. Although non-tested men and women tend to have higher predicted HIV prevalence than those tested, the overall effect of non-response bias on observed prevalence estimates was small and not significant in all countries. In the 14 countries, HIV prevalence estimates adjusted for non-response bias were on average only 3 percent and 2 percent higher than the observed, non-adjusted estimates for men and women, respectively.

The study finds that non-response for HIV testing tends to have small, non-significant effects on national HIV seroprevalence estimates obtained from national household surveys. National population-based surveys are an important source of reliable data on HIV prevalence that can enhance surveillance-based estimates in generalized epidemics.

1

Introduction

In countries with generalized epidemics, national estimates of HIV prevalence levels and trends in the adult population are generally derived indirectly from HIV surveillance among pregnant women attending selected antenatal clinics (Stover et al., 2004; WHO and UNAIDS, 2005). Recently, HIV seroprevalence data have also been collected in national population-based surveys, such as the Demographic and Health Surveys (DHS) and AIDS Indicators Surveys (AIS) (<http://www.measuredhs.com>). These surveys have enabled direct estimates of population HIV prevalence (Mishra et al., 2006; Walker et al., 2004).

A major challenge for the surveys is potential bias resulting from non-response (Boerma et al., 2003; Buvé et al., 2001; Mishra et al., 2006; García-Calleja et al., 2006). Some eligible respondents may be absent at the time of the survey, and others may be incapacitated or refuse to participate. The survey estimates of HIV prevalence may be biased to the extent that non-respondents have different HIV prevalence levels than the respondents. There is much evidence that mobility, which is one of the reasons for absence at the time of the survey, tends to be associated with higher-risk sexual behaviors (Lagarde et al., 2003; Lurie et al., 2003; Lydié et al., 2004) and risk of sexually transmitted infections (Faisel and Cleland, 2006; Zuma et al., 2005), including HIV infection (Lagarde et al., 2003; Lurie et al., 2003; Lydié et al., 2004; Nunn et al., 1995). However, some studies have failed to find an association between mobility and risk of HIV infection (Coffee et al., 2005; Martínez-Donate et al., 2005). There is limited, inconclusive research on how refusal to participate in population-based surveys is associated with risky sexual behaviors (García-Calleja et al., 2006; McNaghten et al., 2007). In a recent study that included an assessment of non-response bias in five countries, Mishra and colleagues (2006) concluded that non-respondents tend to have somewhat higher HIV prevalence, but this bias has no significant effect on national seroprevalence estimates. Other previous studies have also failed to establish that population-based surveys significantly downwardly bias national HIV seroprevalence estimates (Bignami-Van Assche et al., 2005; McNaghten et al., 2007; Obare, 2005).

This report examines data from 17 DHS and AIS surveys to study levels and patterns of non-response for individual interview and for HIV testing. The report also evaluates national HIV estimates from 14 surveys with linked HIV testing data in Burkina Faso, Cambodia, Cameroon, Cote d'Ivoire, Ethiopia, Ghana, India, Kenya, Lesotho, Malawi, Rwanda, Uganda, Tanzania, and Zimbabwe for bias resulting from non-response in the surveys.

2

HIV Testing in the DHS

The DHS program has conducted more than 200 national household surveys in more than 80 developing countries worldwide since 1984. Of particular importance for the interpretation of the HIV prevalence results from the surveys is the sampling methodology. The DHS selects random sample clusters from a national sampling frame, usually from the national population census. Within the selected clusters, a full listing of all households is done before the survey fieldwork, and a systematic random sample of households is taken. During the main fieldwork, eligible women and men, usually ages 15-49 and 15-59 years, respectively, are selected for HIV testing. An individual is only considered absent after three callback visits.

To obtain reliable national HIV estimates disaggregated by sex and urban/rural residence, a representative sample of at least 3,000 households is required. If, on average, there is one eligible male and one eligible female in each sample household, and if 10 percent of the eligible males and females do not participate in the survey, this yields a final sample of roughly 5,400 tested adults. For a population with an estimated prevalence rate of 5 percent, such a sample would provide a 95 percent confidence interval of from 4.3 percent to 5.7 percent at the national level. Larger sample sizes are required if HIV prevalence is lower or if further disaggregation of HIV estimates is desired.

HIV testing in DHS and AIS surveys is done using dried blood spot (DBS) samples collected on special filter paper, using capillary blood from a finger prick. The only exceptions are the 2002 Dominican Republic DHS, in which oral mucosal transudate was used, and the 2001-2002 Zambia DHS and the 2004-2005 Uganda AIS, in which venous blood was used. Three to five preprinted circles on the bloodspot collection card are filled using blood drops. Samples collected on filter paper are allowed to dry overnight in a drying box with desiccant and a humidity indicator card, after which the fieldworker packs the samples in individual zipper-locked bags, again with desiccant and a humidity indicator card. Appropriately packed DBS samples are stored in an insulated box and transported to a central laboratory for HIV testing (Macro International, 2007a, 2007b).

A well-recognized central laboratory is identified to process the DBS samples for HIV testing. The testing follows a standard laboratory algorithm designed to maximize the sensitivity and specificity of HIV test results. The standard testing algorithm uses two different HIV antibody enzyme-linked immunosorbent assay (ELISAs), based on different antigens. All discordant samples that are positive on the first test and negative on the second test are subjected to a second round of testing using both the ELISAs. Discordant samples from the second round of testing are classified as indeterminate. The indeterminate samples are subjected to a Western-blot confirmatory test. The Western-blot result is considered final for the indeterminate samples. These steps are repeated for 5 percent to 10 percent of randomly selected samples that tested negative on the first test (Macro International, 2007a, 2007b).

During the course of sample processing, the laboratory adheres to an approved quality assurance and quality control plan with both internal and external components. For external quality assessment, a subset of DBS samples (usually about 5 percent) from the survey specimens is submitted to an outside reference laboratory for retesting.

To protect the confidentiality of the participants, the data are made anonymous by scrambling the cluster and household numbers associated with each participant in such a way as to make it impossible to associate an individual data record with a particular place and household. HIV test results are linked to data from the questionnaires using barcodes only after the identity codes have been scrambled and the files containing the original identity codes have been destroyed. All HIV testing procedures are reviewed by the ethical review boards of Macro International Inc. (a United States–based company that provides technical assistance to DHS surveys around the world), the host country, and any other implementing partners.

3

Data and Methods

3.1 Data

This report analyzes data from 17 DHS and AIS surveys that included HIV testing and were conducted during 2001 and 2006. In the first three DHS surveys – Mali, the Dominican Republic, and Zambia – only age, sex, urban/rural residence, and geographic region of residence for the tested individuals were recorded on the blood samples. In these surveys, HIV test results cannot be linked to the information in the household and individual questionnaires. In the 14 surveys with linked HIV serostatus data – 11 of which were DHS surveys: Burkina Faso, Cambodia, Cameroon, Ethiopia, Ghana, India, Kenya, Lesotho, Malawi, Rwanda, and Zimbabwe, and three were AIS surveys: Cote d’Ivoire, Tanzania, and Uganda – HIV test results can be linked anonymously to all the respondents’ information collected in the questionnaires after scrambling the household and cluster identification codes.

In most surveys, nationally representative samples of women age 15-49 years and men age 15-59 years were tested for HIV. The only exceptions are Uganda, where women age 15-59 years were tested; Tanzania, Cote d’Ivoire, and Cambodia, where men age 15-49 years were tested; and India, Kenya, Malawi, and Zimbabwe, where men age 15-54 years were tested. The 2004-2005 Uganda survey also tested HIV status among children under age 5 years. In the 17 countries included in this analysis, the numbers eligible for HIV testing ranged from 2,418 men (age 15-59 years) and 2,689 women (age 15-49 years) in Zambia to 64,175 men (age 15-54 years) and 62,182 women (age 15-49 years) in India.

3.2 Methods

The report examines the non-response rates for HIV testing by reasons for non-response and by selected characteristics and behaviors of the respondents. To estimate the extent of non-response bias and its potential effect on the observed HIV prevalence in the 14 countries with linked HIV data, all respondents eligible for HIV testing were divided into four groups: interviewed and tested; not interviewed but tested; interviewed/not tested; and not interviewed/not tested. Eligibility for individual interview and HIV testing was based on de facto population.

To evaluate the effect of non-response bias on the survey estimates, HIV prevalence is predicted among the two non-responding groups (interviewed/not tested and not interviewed/not tested) on the basis of multivariate models of HIV for those who were tested, using a common set of predictor variables. A logistic regression model is used to calculate predicted HIV prevalence separately for the not interviewed/not tested and interviewed/not tested groups. Predictions for the not interviewed/not tested group are based on a limited set of variables (only from the household questionnaire), but predictions for

the interviewed/not tested group additionally use several individual sociodemographic and behavioral characteristics of the respondents, as collected in the survey.

Variables for predicting HIV prevalence in the not interviewed/not tested group included age, education, wealth status, urban/rural residence, and geographic region. Additional variables for predicting HIV in the interviewed/not tested group included marital status, childbirth in last 5 years (women only), work status, media exposure, ethnicity, religion, circumcision (men only), sexually transmitted infections (STIs) or STI symptoms in the last 12 months, alcohol use at last sex in the last 12 months, number of sex partners in the last 12 months, cigarette smoking/tobacco use, age at first sex, number of lifetime sexual partners, number of sexual partners in the last 12 months, condom use at last sex in the last 12 months, higher-risk sex (sex with a non-marital, non-cohabiting partner) in the last 12 months, knowledge of HIV prevention methods (abstinence, being faithful, and condom use), attitudes toward people living with HIV, woman's ability to negotiate safer sex with spouse, woman's participation in household decision-making (women only), number of medical injections in the last 12 months, duration of stay in current place of residence, number of times slept away in the last 12 months (men only), away (from usual place of residence) for more than 1 month in the last 12 months (men only), and previously tested for HIV. The list of additional variables used varied slightly from country to country, depending on the availability of information.

All data processing was done using Stata version 9.0. Analysis was carried out separately for males and females for each of the 14 countries with linked data. Adjusted HIV prevalence was calculated as a weighted average of observed prevalence among those who were tested and predicted prevalence in the two groups of non-tested respondents. Statistical significance between observed prevalence among the respondents and predicted prevalence among the non-respondents was tested using the t statistic. Sampling weights were applied in accordance with standard DHS procedures. We used HIV sampling weights for the tested group, individual sampling weights for the interviewed/not tested group, and household sampling weights for the not interviewed/not tested group, respectively.

4

Results

4.1 Patterns of Observed HIV Prevalence by Sex and Urban/Rural Residence

Table 1 presents HIV prevalence rates by sex and urban/rural residence for the 17 countries. Total HIV prevalence in these countries ranges from less than 1 percent in India and Cambodia to 23 percent in Lesotho. Despite large HIV prevalence differences among the surveys, fairly consistent patterns of HIV infection are observed by sex and urban/rural residence. In all countries except the Dominican Republic, HIV prevalence is higher in urban areas than in rural areas. The urban/rural HIV prevalence ratio ranges from 0.66 in the Dominican Republic and 1.07 in Zimbabwe to 3.25 in Cambodia, 3.39 in Rwanda, and 8.27 in Ethiopia. HIV prevalence is considerably higher among women than among men in all countries except India, where the prevalence is lower among women, and the Dominican Republic, Burkina Faso, and Cambodia, where the sex differences are negligible. The female-to-male HIV prevalence ratio is highest in Cote d'Ivoire and Ethiopia, where women are more than twice as likely to be infected as men.

Table 1: Observed HIV prevalence by sex and urban/rural residence, DHS/AIS countries with HIV testing

Country/sex	Observed HIV prevalence		
	Urban	Rural	Total
Burkina Faso 2003			
Male (15-59)	3.6	1.4	1.9
Female (15-49)	4.0	1.2	1.8
Total (15-49)	3.5	1.3	1.8
Cambodia 2005			
Male (15-49)	1.6	0.4	0.6
Female (15-49)	1.3	0.5	0.6
Total (15-49)	1.4	0.4	0.6
Cameroon 2004			
Male (15-59)	4.7	2.8	3.9
Female (15-49)	8.4	4.8	6.8
Total (15-49)	6.7	4.0	5.5
Cote d'Ivoire 2005			
Male (15-49)	3.2	2.5	2.9
Female (15-49)	7.4	5.5	6.4
Total (15-49)	5.4	4.1	4.7
Dominican Republic 2002			
Male (15-59)	1.0	1.3	1.0
Female (15-49)	0.9	1.0	0.9
Total (15-49)	1.0	1.5	1.2

(Cont'd)

Table 1 - Continued

Country/sex	Observed HIV prevalence		
	Urban	Rural	Total
Ethiopia 2005			
Male (15-59)	2.6	0.6	0.9
Female (15-49)	7.7	0.7	1.9
Total (15-49)	5.5	0.7	1.4
Ghana 2003			
Male (15-59)	1.7	1.7	1.7
Female (15-49)	2.9	2.5	2.7
Total (15-49)	2.3	2.0	2.2
India 2005/06			
Male (15-54)	0.4	0.3	0.4
Female (15-49)	0.3	0.2	0.2
Total (15-49)	0.4	0.3	0.3
Kenya 2003			
Male (15-54)	7.8	3.7	4.7
Female (15-49)	12.3	7.5	8.7
Total (15-49)	10.2	5.6	6.8
Lesotho 2004			
Male (15-59)	22.2	18.1	18.9
Female (15-49)	33.0	24.3	26.4
Total (15-49)	28.9	21.6	23.2
Malawi 2004			
Male (15-54)	16.4	8.9	10.2
Female (15-49)	18.0	12.5	13.3
Total (15-49)	17.1	10.8	11.8
Mali 2001			
Male (15-59)	1.9	1.1	1.3
Female (15-49)	2.5	1.9	2.0
Total (15-49)	2.3	1.5	1.8
Rwanda 2005			
Male (15-59)	5.6	1.5	2.2
Female (15-49)	8.6	2.6	3.6
Total (15-49)	7.3	2.2	3.1
Tanzania 2003			
Male (15-49)	9.6	4.8	6.3
Female (15-49)	12.0	5.8	7.7
Total (15-49)	10.9	5.4	7.0
Uganda 2004/05			
Male (15-59)	6.9	4.9	5.2
Female (15-59)	12.6	6.4	7.3
Total (15-49)	10.1	5.7	6.4
Zambia 2001/02			
Male (15-59)	18.7	8.8	12.6
Female (15-49)	26.3	12.4	17.8
Total (15-49)	23.1	10.8	15.6
Zimbabwe 2005/06			
Male (15-54)	16.0	13.9	14.8
Female (15-49)	21.6	20.8	21.1
Total (15-49)	18.9	17.6	18.1

Fairly consistent age patterns of HIV infection emerge from the surveys. In almost all countries, HIV prevalence among women is consistently higher than among men at younger ages, with a crossover occurring during the late 30s or early 40s (see Appendix Tables A4-N4 and A5-N5).

4.2 Response Rates and Reasons for Non-Response

Table 2 shows the response rates for household interview and individual interview. Household response rates were very high in all surveys, 95 percent or higher in all 17 countries. In all but four countries, the household response rates were above 97 percent. Response rates for individual interview were also above 90 percent in most surveys. Individual interview response rates for females ranged from 90 percent in Cote d'Ivoire and Zimbabwe to 98 percent in Rwanda. Individual interview response rates for males were lower than for females in all 17 countries. Response rates for male individual interview ranged from a low of 81 percent in the Dominican Republic and 82 percent in Zimbabwe to a high of 97 percent in Rwanda.

Table 2: Response rates for individual interview and for HIV testing by sex, DHS/AIS countries with HIV testing

Country/sex (age)	Household response rate	Individual response rate	Number eligible for HIV testing	HIV response rate
Burkina Faso 2003	99.4			
Male (15-59)		90.5	3,984	85.8
Female (15-49)		96.7	4,575	92.3
Cambodia 2005	98.0			
Male (15-49)		93.1	7,229	90.3
Female (15-49)		97.2	8,638	95.1
Cameroon 2004	97.6			
Male (15-59)		93.0	5,676	89.8
Female (15-49)		94.5	5,703	92.1
Cote d'Ivoire 2005	95.5			
Male (15-49)		87.5	5,148	75.8
Female (15-49)		89.8	5,772	78.7
Dominican Republic 2002	97.9			
Male (15-59)		80.5	14,456	80.9
Female (15-49)		92.8	12,514	89.0
Ethiopia 2005	98.6			
Male (15-59)		89.0	6,778	75.4
Female (15-49)		95.4	7,142	83.2
Ghana 2003	98.7			
Male (15-59)		93.8	5,345	80.0
Female (15-49)		95.7	5,949	89.3
India 2005/06	97.7			
Male (15-54)		86.5	64,175	78.1
Female (15-49)		93.6	62,182	85.0
Kenya 2003	96.3			
Male (15-54)		85.5	4,183	70.3
Female (15-49)		94.0	4,303	76.3

(Cont'd)

Table 2 - Continued

Country/sex (age)	Household response rate	Individual response rate	Number eligible for HIV testing	HIV response rate
Lesotho 2004	97.4			
Male (15-59)		84.6	3,305	68.0
Female (15-49)		94.2	3,758	80.7
Malawi 2004	97.8			
Male (15-54)		85.9	3,797	63.3
Female (15-49)		94.9	4,071	70.4
Mali 2001	97.9			
Male (15-59)		83.8	4,062	75.6
Female (15-49)		94.8	4,556	85.2
Rwanda 2005	99.6			
Male (15-59)		97.2	4,959	95.6
Female (15-49)		98.1	5,837	97.3
Tanzania 2003	98.5			
Male (15-49)		91.3	6,196	77.1
Female (15-49)		95.9	7,154	83.5
Uganda 2004/05	96.8			
Male (15-59)		89.1	9,905	83.8
Female (15-59)		94.5	11,454	89.3
Zambia 2001/02	98.2			
Male (15-59)		88.7	2,418	73.3
Female (15-49)		96.7	2,689	79.4
Zimbabwe 2005/06	95.0			
Male (15-54)		81.9	8,761	63.4
Female (15-49)		90.2	9,870	75.9

Table 2 also shows numbers of males and females eligible for HIV testing and the corresponding HIV response rates. The numbers eligible for HIV testing ranged from 2,418 males (age 15-59 years) and 2,689 females (age 15-49 years) in Zambia to 64,175 males (age 15-54 years) and 62,182 females (age 15-49 years) in India. Response rates for HIV testing were lower than those for individual interview in all cases, except for males in the Dominican Republic, where both response rates were similar. In 8 of the 17 countries, the difference in the response rates for individual interview and for HIV testing was greater than 10 percentage points for both males and females. The highest differences were observed in the case of Malawi, where the response rates for HIV testing were 23 percentage points lower for males and 25 percentage points lower for females than the corresponding response rates for individual interview. In contrast, Rwanda had the smallest differences between the individual interview and HIV testing response rates of about 2 percentage points for males and 1 percentage point for females.

Response rates for HIV testing for males were lowest in Malawi and Zimbabwe, where only 63 percent of eligible males were tested (Figure 1). Male HIV response rates were also relatively low in Lesotho (68 percent) and Kenya (70 percent). The highest male HIV response rates were observed in Rwanda (96 percent), followed by Cambodia and Cameroon (90 percent each). As with individual interview response rates, HIV response rates for females were considerably higher than for males in all countries. Female HIV response rates ranged from 70 percent in Malawi to 97 percent in Rwanda. HIV response rates for females also were above 90 percent in Cameroon, Burkina Faso, and Cambodia.

Figure 1: Response rates for HIV testing by reasons for non-response

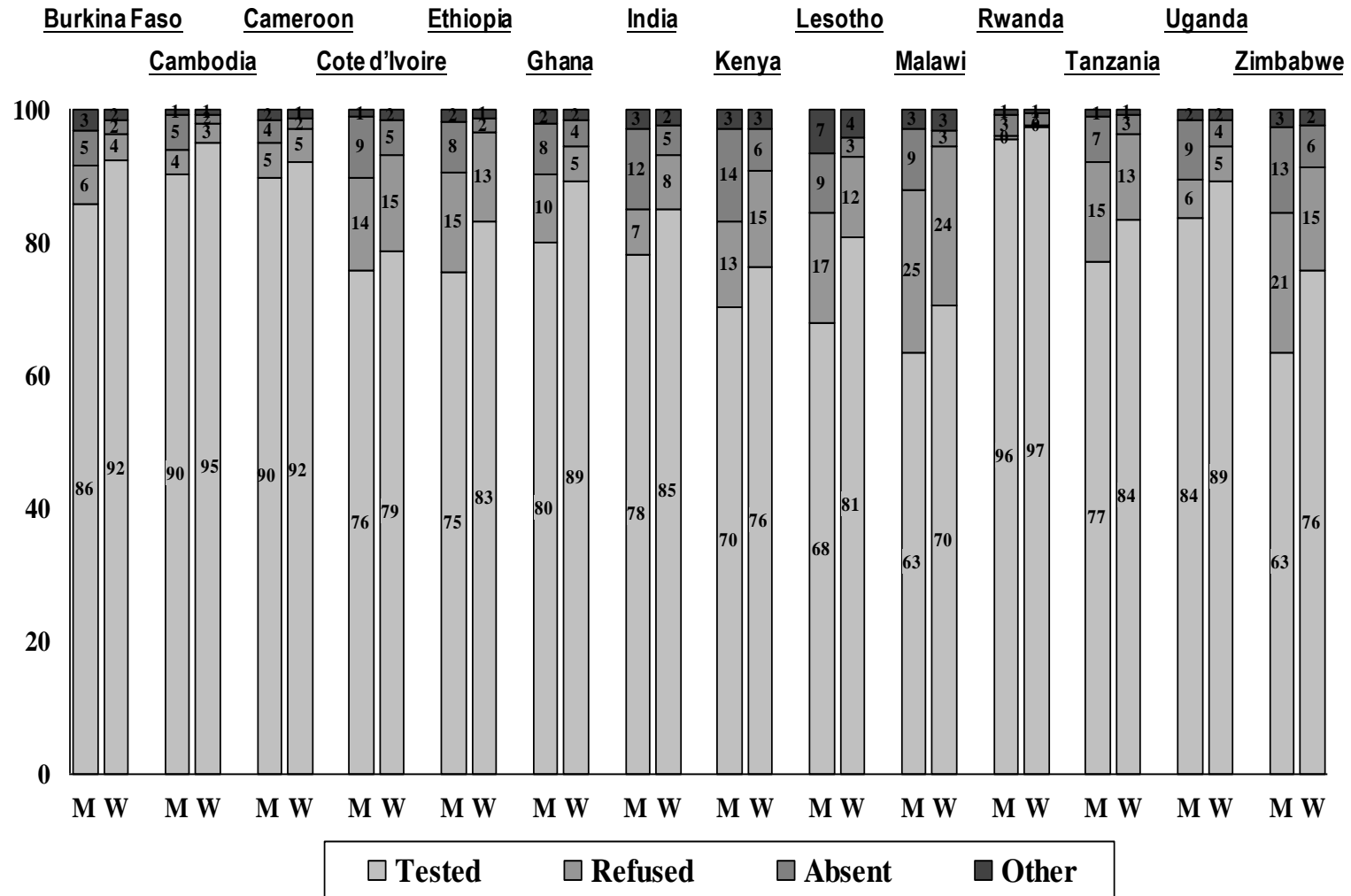


Table 3 shows a distribution of eligible males and females by HIV testing status and by interview status. In several countries, there was a small number of adults who were not interviewed but were tested for HIV. These proportions were less than 1 percent in most cases, except in Burkina Faso and Cameroon. In some countries (Cote d'Ivoire, India, Malawi, Tanzania, and Zimbabwe), the survey protocol did not allow for the possibility of testing without individual interview. Among those not tested for HIV, the proportion who were interviewed but not tested was generally greater than the proportion who were not interviewed and not tested.

Table 3: Distribution of eligible males and females by interview status and HIV testing status, DHS/AIS countries with HIV testing

Country/sex (age)	Number eligible	Tested		Not tested	
		Interviewed	Not interviewed	Interviewed	Not interviewed
Burkina Faso 2003					
Male (15-59)	3,984	83.9	1.9	6.6	7.6
Female (15-49)	4,575	91.6	0.7	5.1	2.6
Cambodia 2005					
Male (15-49)	7,229	90.1	0.2	3.0	6.7
Female (15-49)	8,638	94.8	0.3	2.4	2.4
Cameroon 2004					
Male (15-59)	5,676	88.9	1.0	4.2	6.0
Female (15-49)	5,703	90.4	1.7	4.1	3.7
Cote d'Ivoire 2005					
Male (15-49)	5,148	75.8	n/a	11.7	12.5
Female (15-49)	5,772	78.7	n/a	11.1	10.2
Dominican Republic 2002					
Male (15-59)	14,456	n/a	n/a	n/a	n/a
Female (15-49)	12,514	n/a	n/a	n/a	n/a
Ethiopia 2005					
Male (15-59)	6,778	75.2	0.2	13.8	10.8
Female (15-49)	7,142	83.0	0.2	12.4	4.5
Ghana 2003					
Male (15-59)	5,345	79.8	0.1	14.0	6.0
Female (15-49)	5,949	89.0	0.2	6.6	4.1
India 2005/06					
Male (15-54)	64,175	78.1	n/a	8.4	13.5
Female (15-49)	62,182	85.0	n/a	8.6	6.4
Kenya 2003					
Male (15-54)	4,183	69.7	0.6	15.8	13.9
Female (15-49)	4,303	76.1	0.3	17.9	5.8
Lesotho 2004					
Male (15-59)	3,305	67.6	0.4	17.0	15.0
Female (15-49)	3,758	80.4	0.3	13.8	5.5
Malawi 2004					
Male (15-54)	3,797	63.3	n/a	22.6	14.1
Female (15-49)	4,071	70.4	n/a	24.6	5.1

(Cont'd)

Table 3 - Continued

Country/sex (age)	Number eligible	Tested		Not tested	
		Interviewed	Not interviewed	Interviewed	Not interviewed
Mali 2001					
Male (15-59)	4,062	n/a	n/a	n/a	n/a
Female (15-49)	4,556	n/a	n/a	n/a	n/a
Rwanda 2005					
Male (15-59)	4,959	95.3	0.3	1.9	2.5
Female (15-49)	5,837	97.0	0.2	1.1	1.6
Tanzania 2003					
Male (15-49)	6,196	77.1	n/a	14.3	8.7
Female (15-49)	7,154	83.5	n/a	12.4	4.1
Uganda 2004/05					
Male (15-59)	9,905	83.4	0.4	5.8	10.4
Female (15-59)	11,454	88.9	0.4	5.7	5.1
Zambia 2001/02					
Male (15-59)	2,418	n/a	n/a	n/a	n/a
Female (15-49)	2,689	n/a	n/a	n/a	n/a
Zimbabwe 2005/06					
Male (15-54)	8,761	63.4	n/a	18.5	18.1
Female (15-49)	9,870	75.9	n/a	14.3	9.8

Refusal was a more important reason for HIV non-response than absence in all 15 countries with available data for women (except Rwanda) and in 10 of the 15 countries for men (Table 4). In Rwanda, very few women or men refused testing, but 2 percent and 3 percent of women and men were absent for testing, respectively. In all countries, men were much more likely than women to be absent for testing. In 13 of the 15 countries, the HIV non-response rate resulting from absence was two to four times greater for men than for women.

Table 4: Reasons for HIV non-response by sex, DHS/AIS countries with HIV testing

Country/sex (age)	HIV non-response rate	Reason for HIV non-response		
		Refused	Absent	Other/ missing
Burkina Faso 2003				
Male (15-59)	14.2	5.9	5.1	3.2
Female (15-49)	7.7	4.0	2.0	1.7
Cambodia 2005				
Male (15-49)	9.7	3.7	5.1	0.9
Female (15-49)	4.9	2.7	1.5	0.6
Cameroon 2004				
Male (15-59)	10.2	5.2	3.5	1.5
Female (15-49)	7.9	5.1	1.5	1.3
Cote d'Ivoire 2005				
Male (15-49)	24.2	13.9	9.2	1.1
Female (15-49)	21.3	14.5	5.2	1.6
Dominican Republic 2002				
Male (15-59)	19.1	n/a	n/a	n/a
Female (15-49)	11.0	n/a	n/a	n/a
Ethiopia 2005				
Male (15-59)	24.7	15.0	7.8	1.9
Female (15-49)	16.8	13.3	2.3	1.3
Ghana 2003				
Male (15-59)	20.0	10.3	7.5	2.2
Female (15-49)	10.7	5.3	3.7	1.8
India 2005/06				
Male (15-54)	21.9	6.9	12.1	3.0
Female (15-49)	15.0	8.1	4.5	2.4
Kenya 2003				
Male (15-54)	29.7	12.8	13.9	2.9
Female (15-49)	23.7	14.5	6.3	2.8
Lesotho 2004				
Male (15-59)	32.0	16.6	8.7	6.8
Female (15-49)	19.3	12.1	2.9	4.3
Malawi 2004				
Male (15-54)	36.7	24.6	9.3	2.8
Female (15-49)	29.7	24.0	2.5	3.1
Mali 2001				
Male (15-59)	24.4	n/a	n/a	n/a
Female (15-49)	14.8	n/a	n/a	n/a
Rwanda 2005				
Male (15-59)	4.4	0.4	3.3	0.8
Female (15-49)	2.7	0.3	2.0	0.5
Tanzania 2003				
Male (15-49)	23.0	14.9	7.0	1.1
Female (15-49)	16.5	12.9	2.8	0.8
Uganda 2004/05				
Male (15-59)	16.2	5.8	8.8	1.6
Female (15-59)	10.7	5.2	4.0	1.6

(Cont'd)

Table 4 - Continued

Country/sex (age)	HIV non-response rate	Reason for HIV non-response		
		Refused	Absent	Other/ missing
Zambia 2001/02				
Male (15-59)	20.6	14.9	8.1 ^a	3.7 ^b
Female (15-49)	20.6	15.7	3.0 ^a	1.9 ^b
Zimbabwe 2005/06				
Male (15-54)	36.6	21.0	12.9	2.7
Female (15-49)	24.1	15.3	6.4	2.3

^a Absent and other categories combined

^b Includes only missing cases

^c Includes all non-interviewed

4.3 Patterns of Non-Response by Selected Background Characteristics

Non-response rates resulting from both refusal and absence were much higher in urban areas than in rural areas (Figure 2), and there are substantial within-country regional variations in response rates (not shown). In addition, the non-response rates were considerably higher among more educated and wealthier respondents. This pattern of non-response is typical of most household surveys in developing countries

In 8 of the 14 countries, in which data on chronically ill adults (those who were seriously ill for 3 or more months in the past year) were available, response rates were slightly higher among chronically ill adults than among adults who were not chronically ill (Table 5).

Figure 2a: Non-response rate for HIV testing by selected background characteristics, Burkina Faso 2003

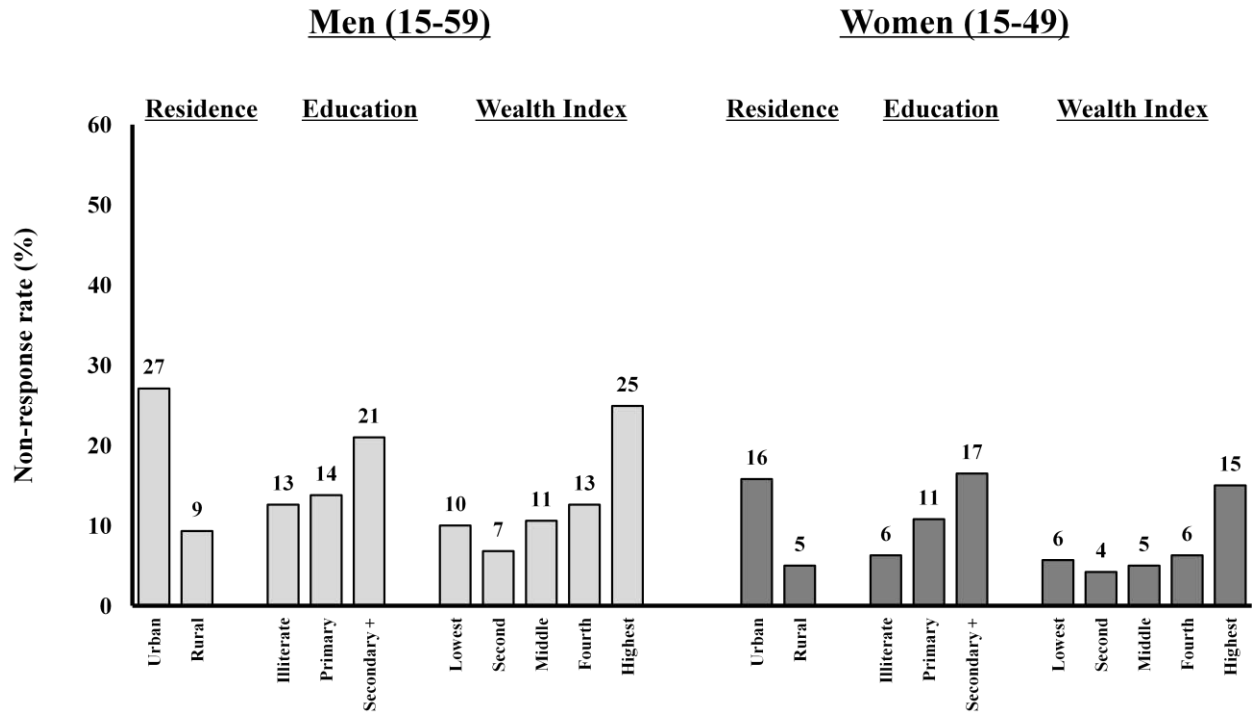


Figure 2b: Non-response rate for HIV testing by selected background characteristics, Cambodia 2005-06



Figure 2c: Non-response rate for HIV testing by selected background characteristics, Cameroon 2004

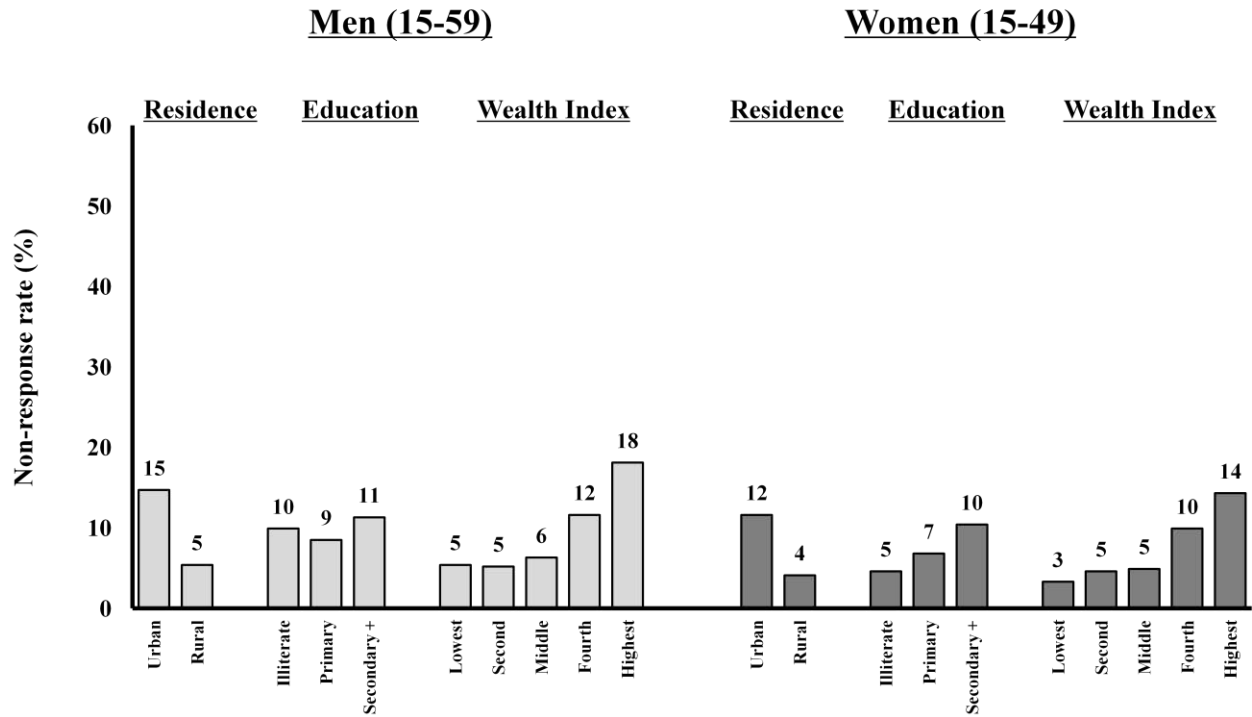


Figure 2d: Non-response rate for HIV testing by selected background characteristics, Cote d'Ivoire 2005

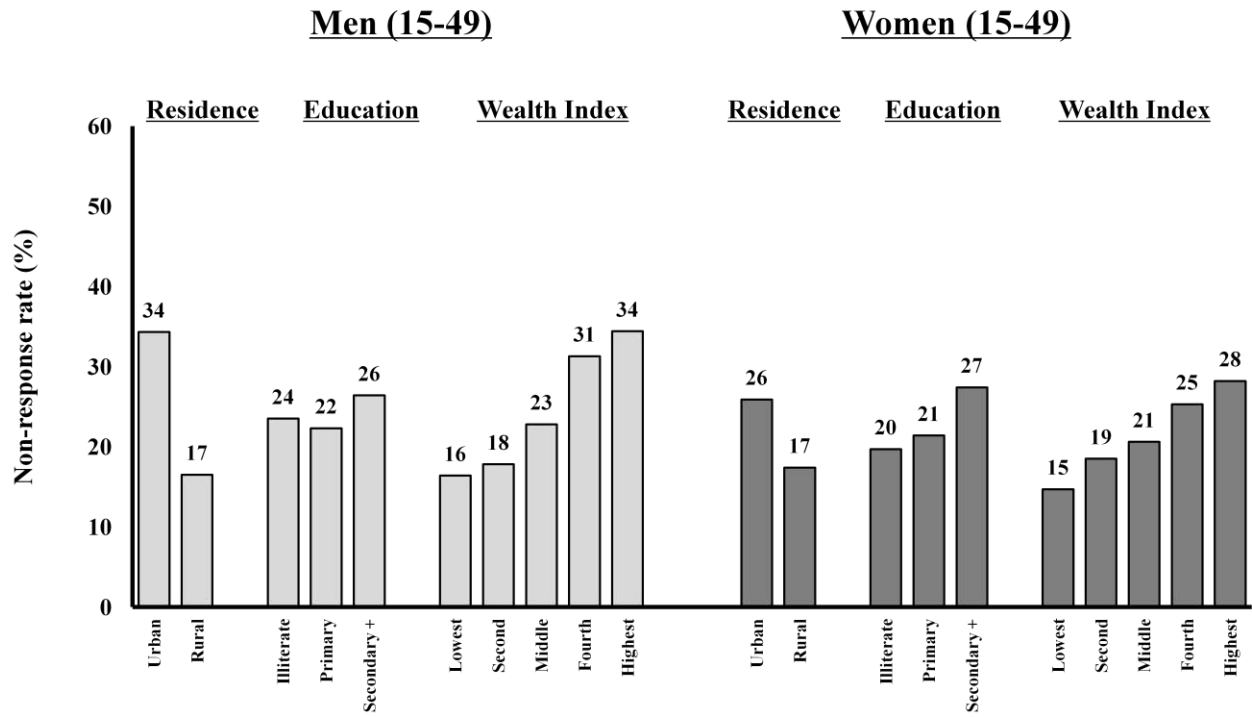


Figure 2e: Non-response rate for HIV testing by selected background characteristics, Ethiopia 2005

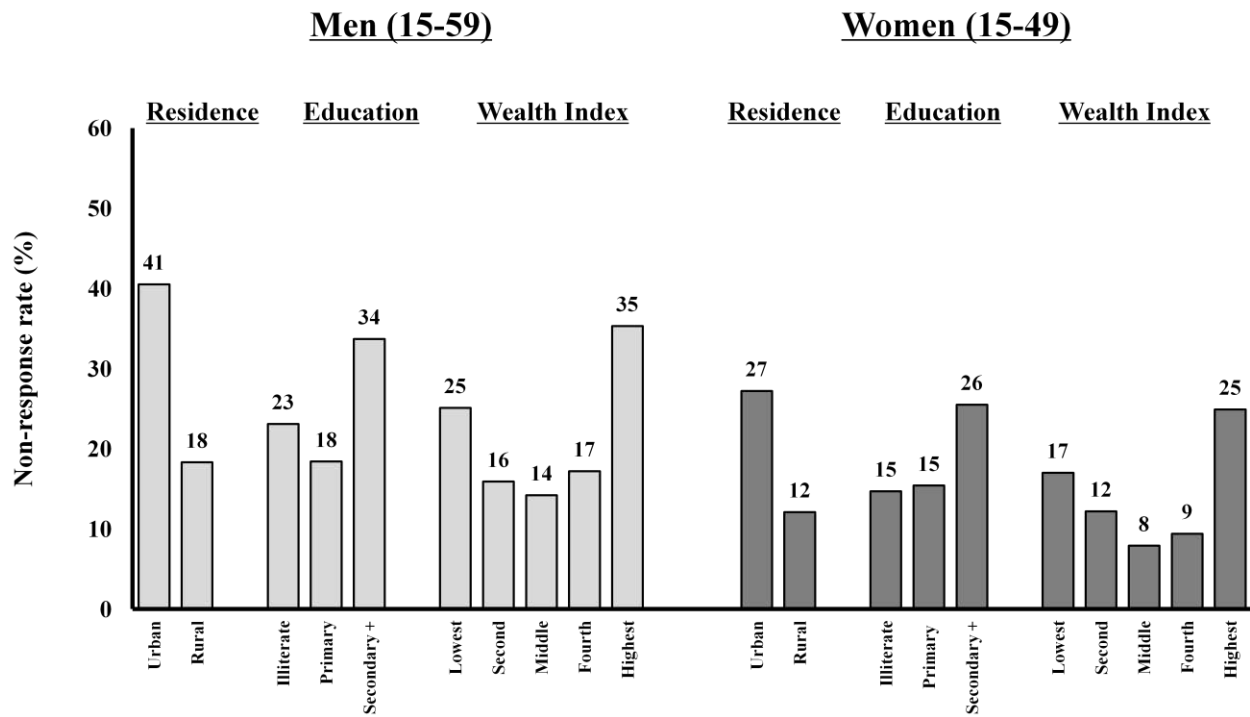


Figure 2f: Non-response rate for HIV testing by selected background characteristics, Ghana 2003

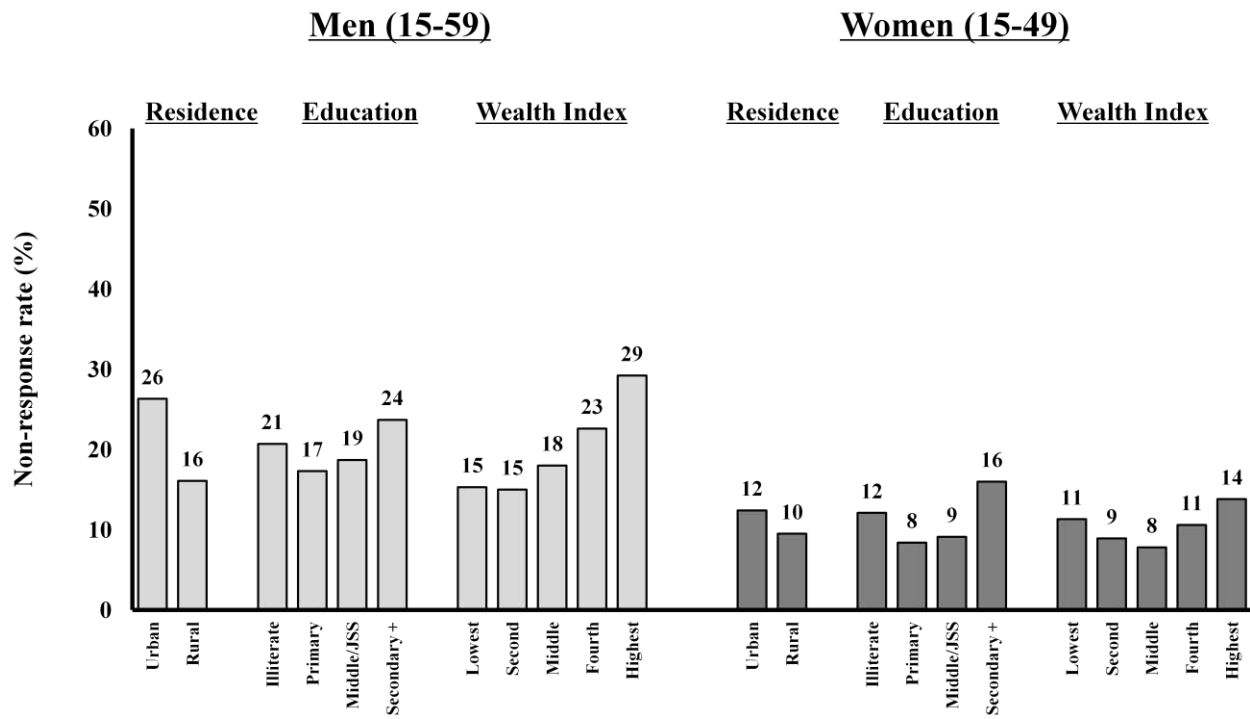


Figure 2g: Non-response rate for HIV testing by selected background characteristics, India 2005-06

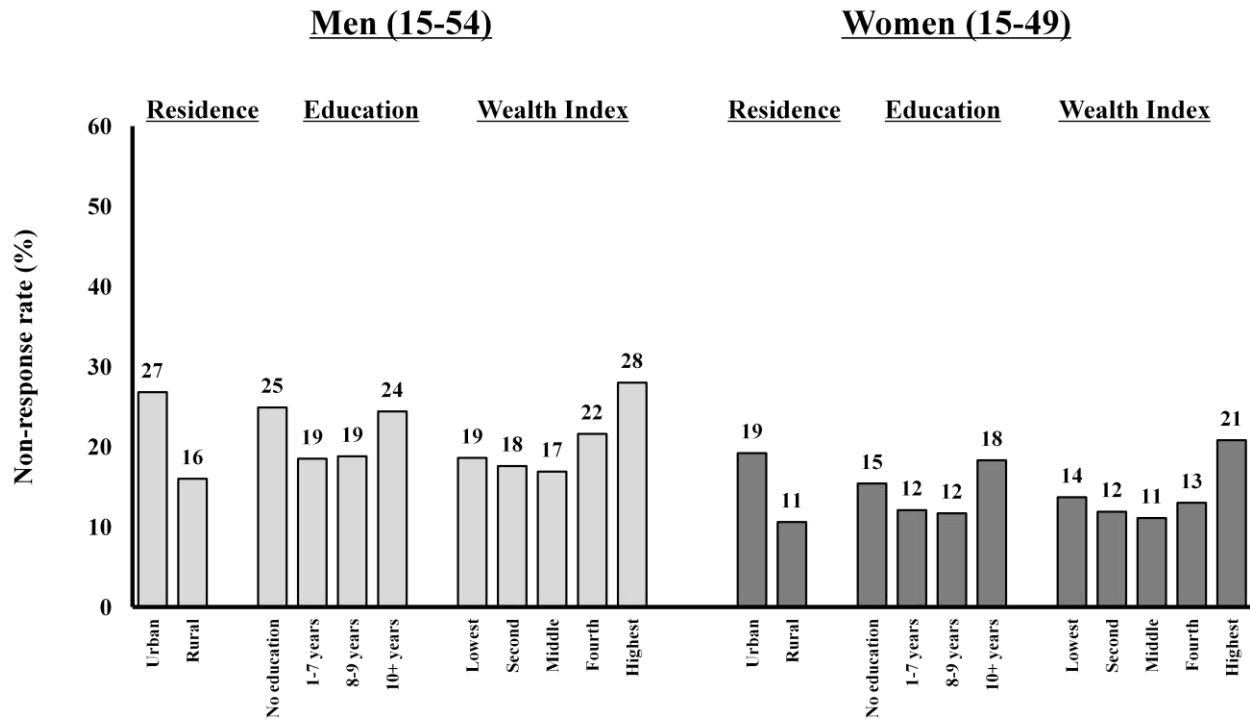


Figure 2h: Non-response rate for HIV testing by selected background characteristics, Kenya 2003

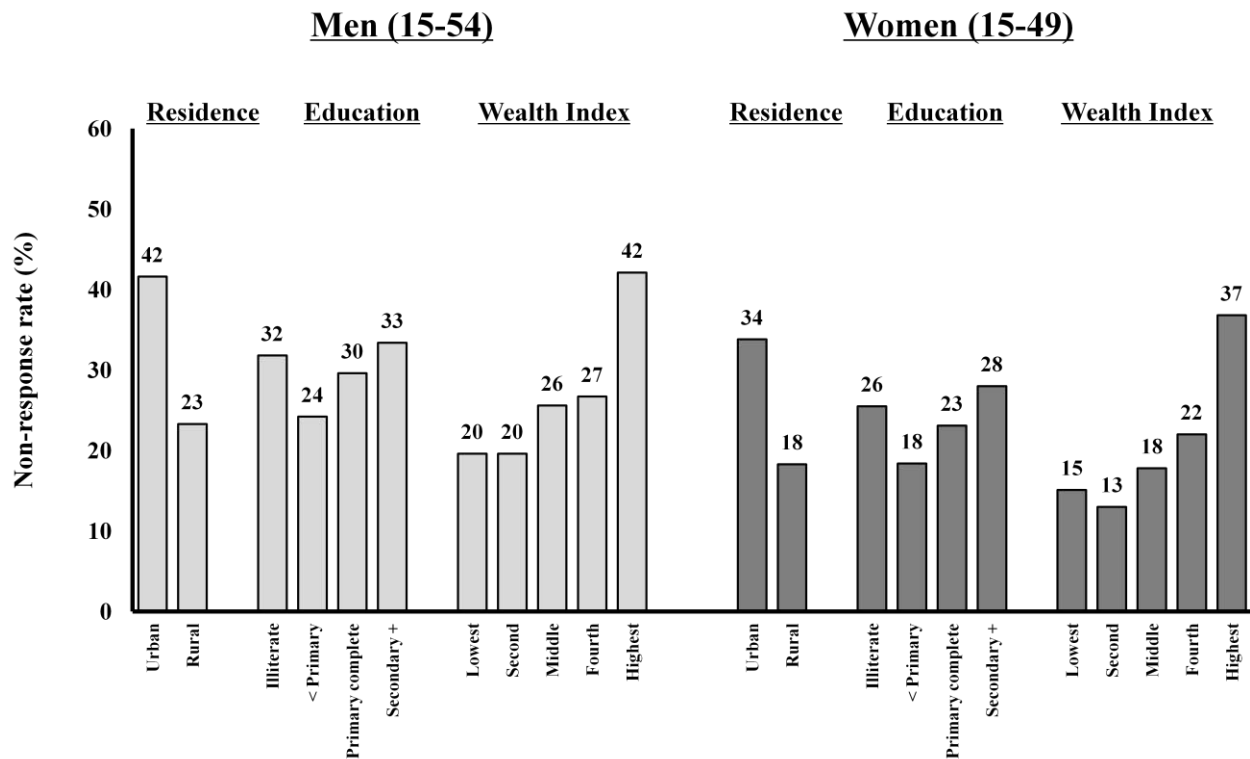


Figure 2i: Non-response rate for HIV testing by selected background characteristics, Lesotho 2004

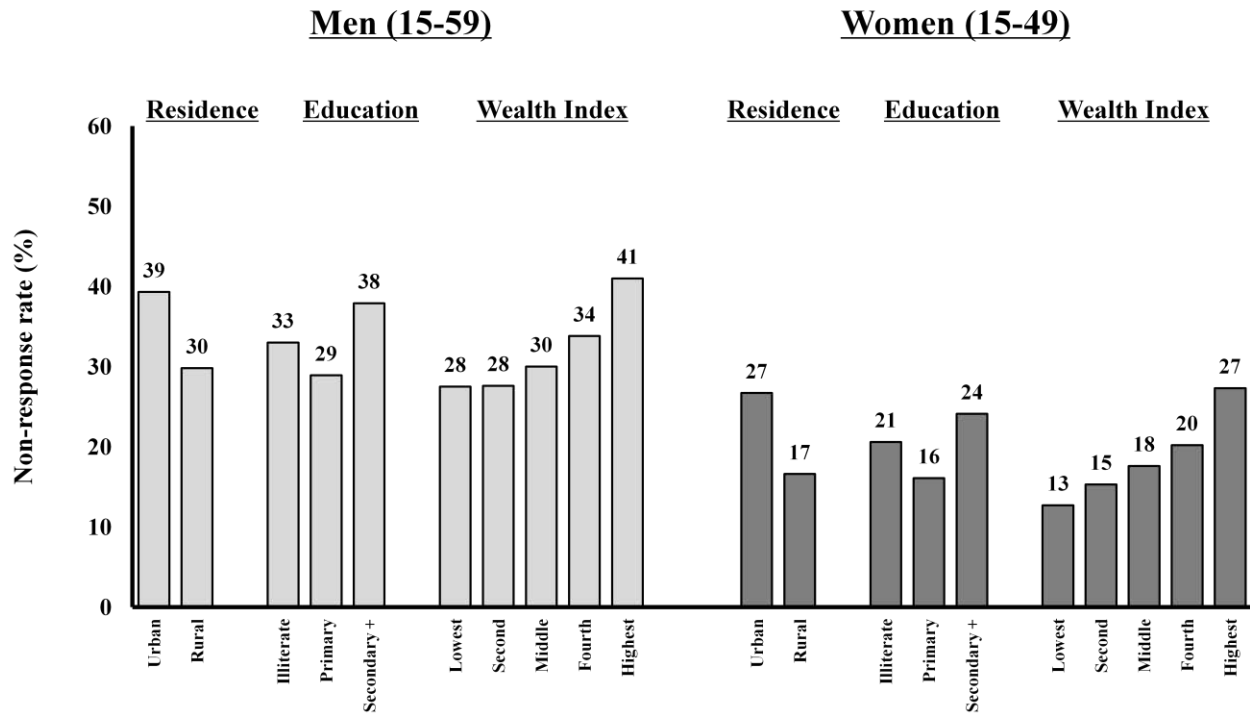


Figure 2j: Non-response rate for HIV testing by selected background characteristics, Malawi 2004

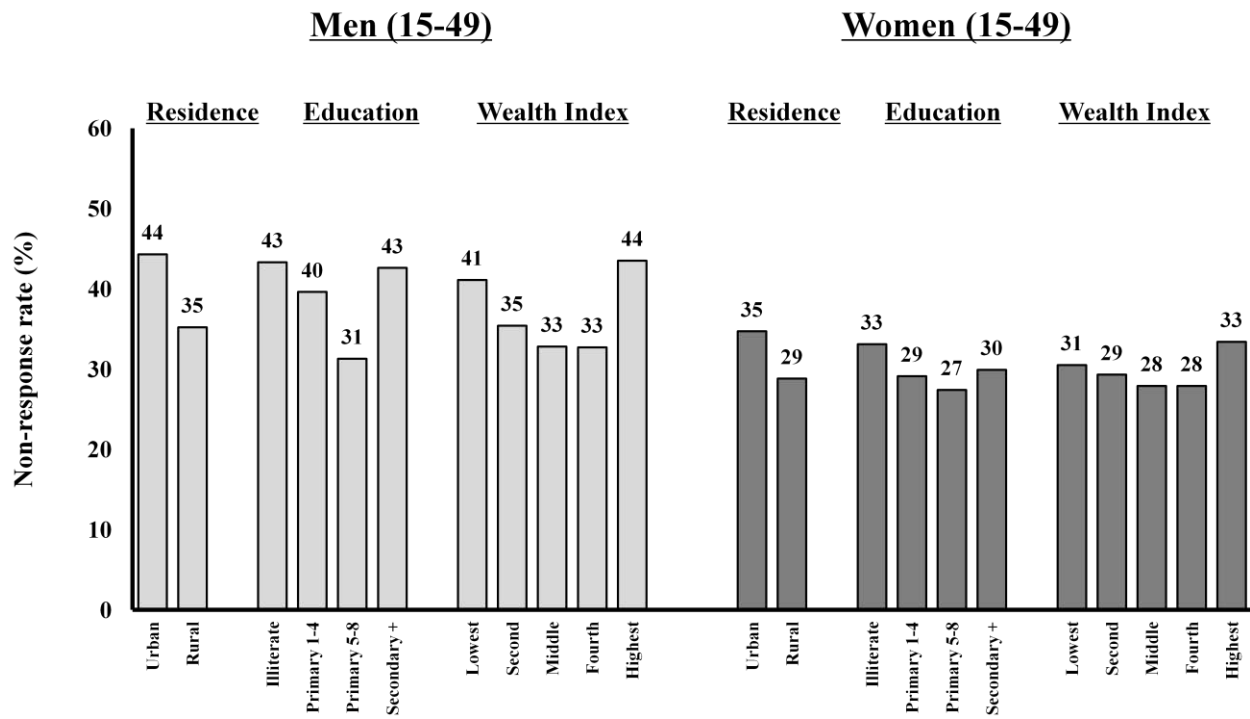


Figure 2k: Non-response rate for HIV testing by selected background characteristics, Rwanda 2005

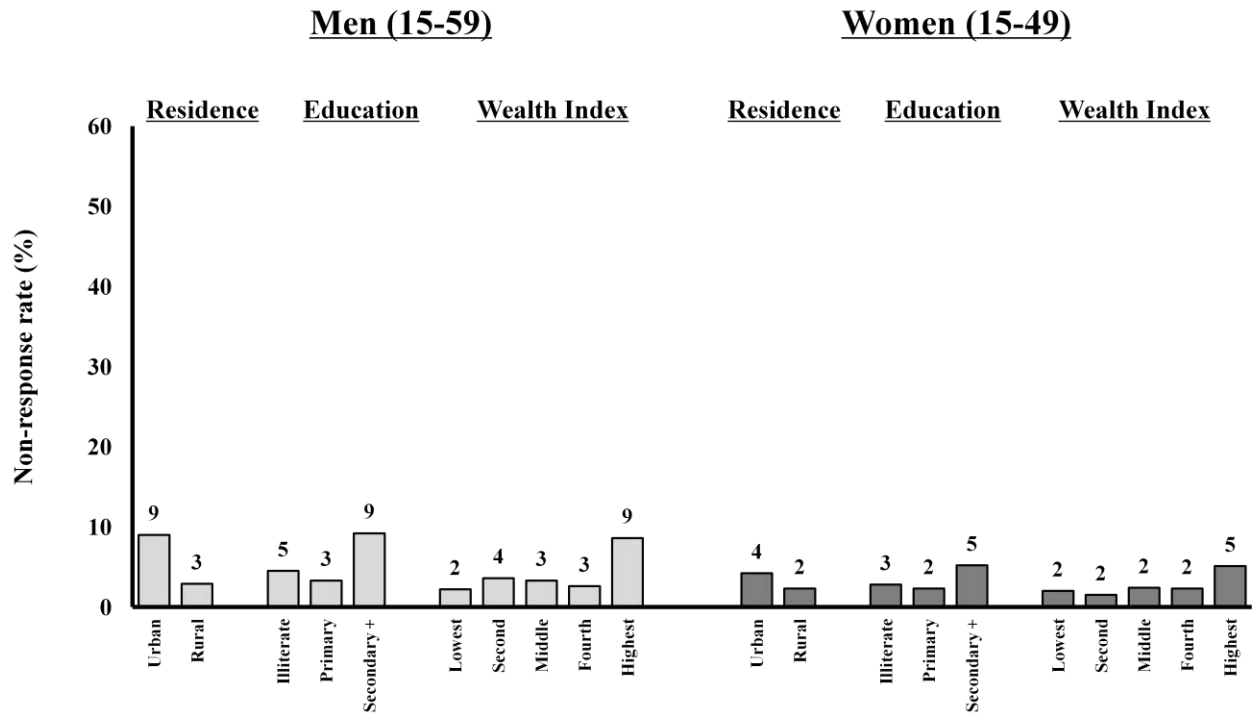


Figure 2l: Non-response rate for HIV testing by selected background characteristics, Tanzania 2003-04

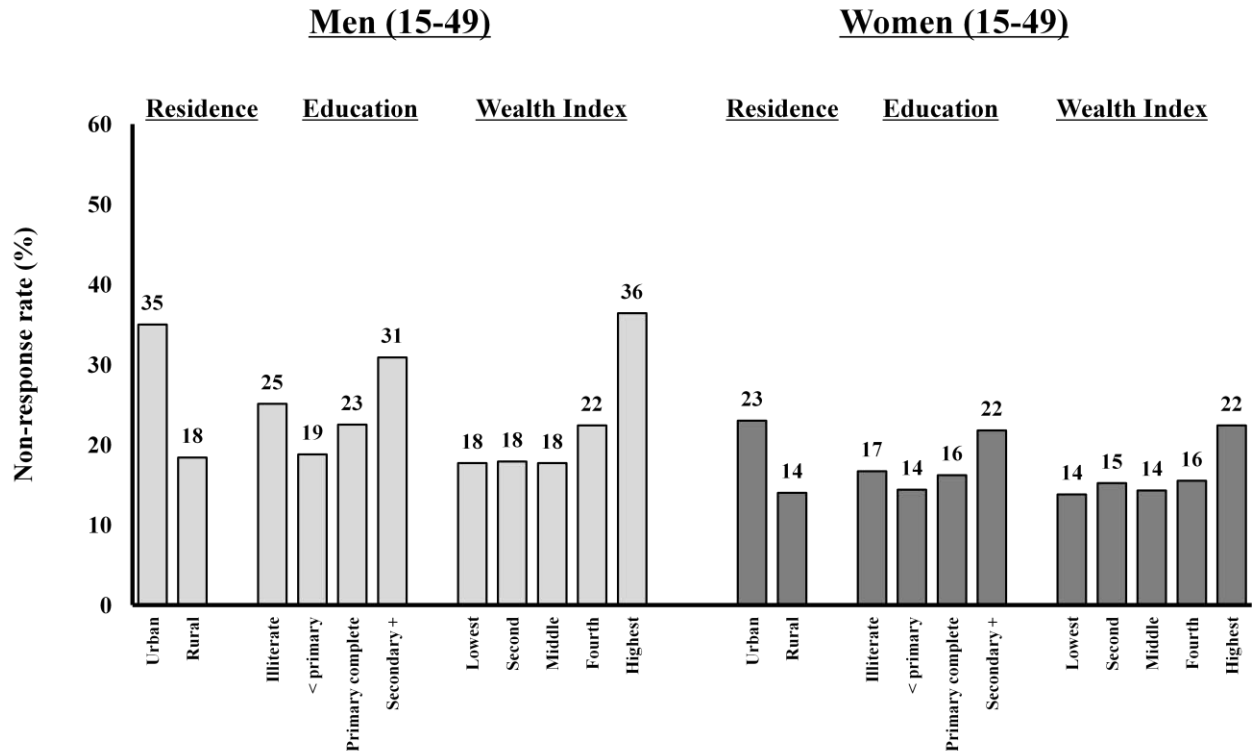


Figure 2m: Non-response rate for HIV testing by selected background characteristics, Uganda 2004-05

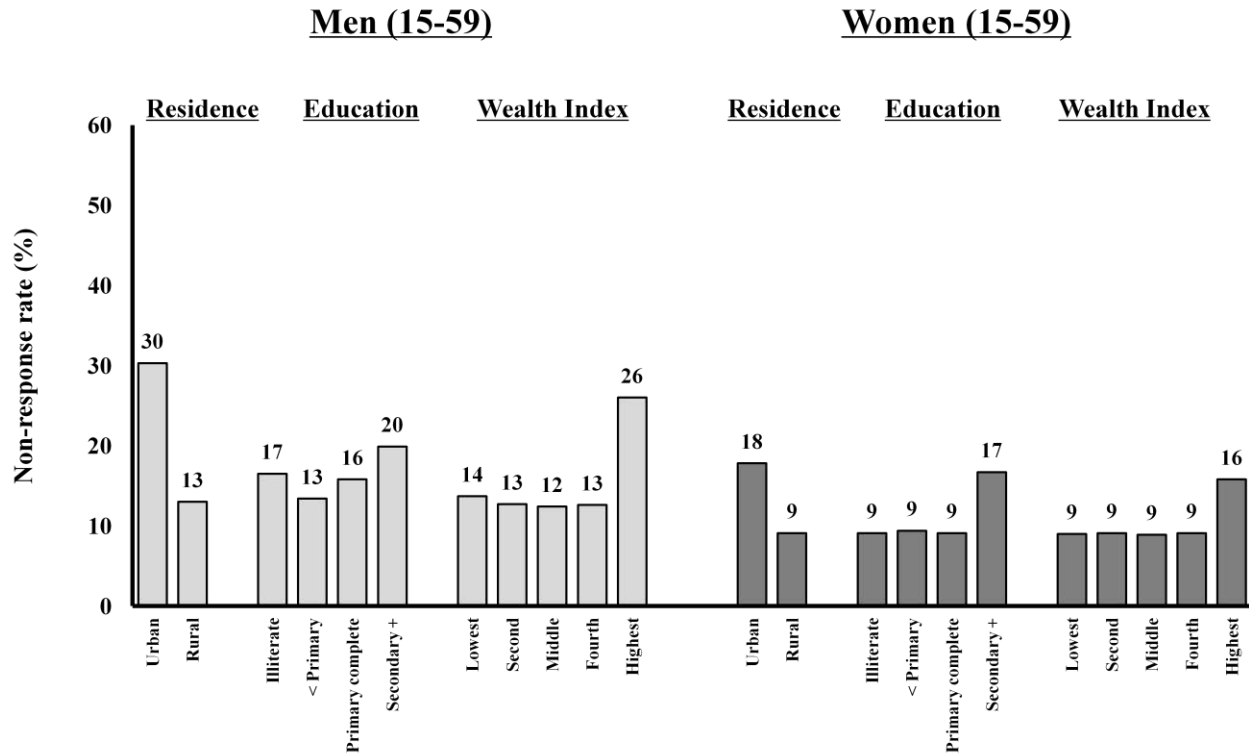


Figure 2n: Non-response rate for HIV testing by selected background characteristics, Zimbabwe 2005-06

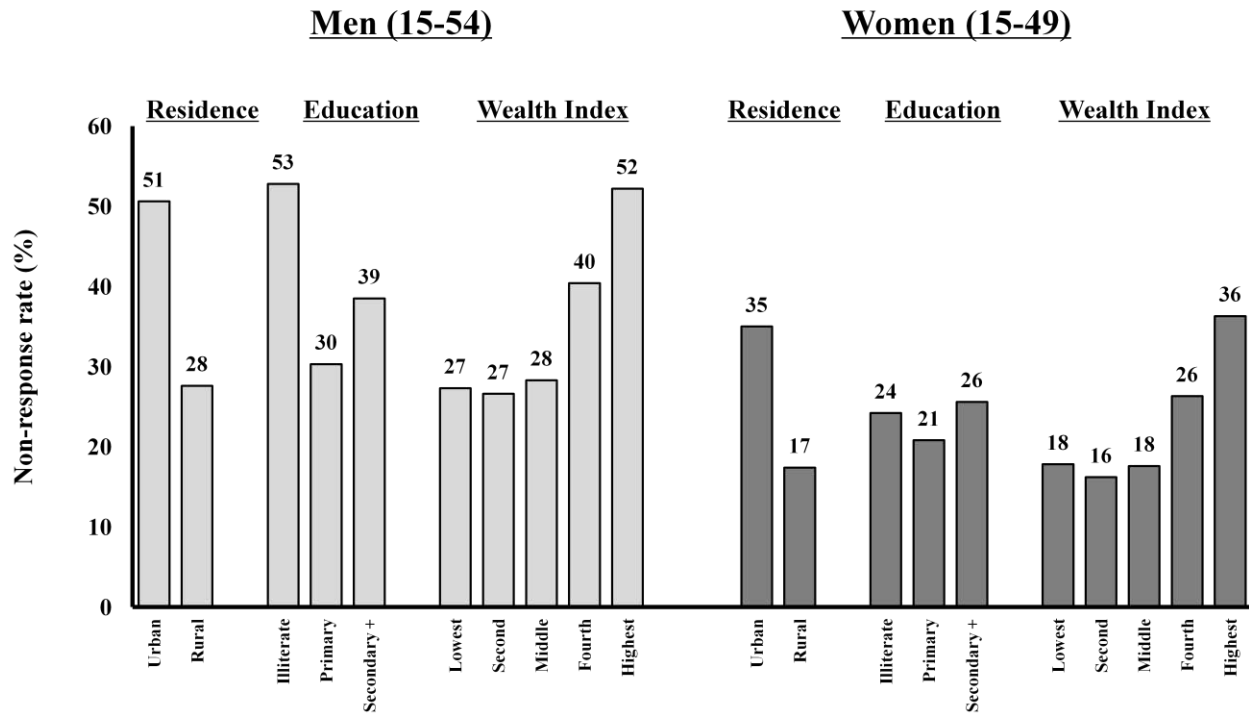


Table 5: HIV response rates among chronically ill adults, by sex, interview status and HIV testing status, DHS/AIS countries with HIV testing

Country/sex	Data availability (age range)	Number of chronically ill adults	HIV response rate	Tested		Not tested		Reason for HIV non-response		
				Inter-viewed	Not inter-viewed	Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing
Cambodia 2005										
Male (15-49)		107	90.7	90.7	0.0	0.0	9.4	5.6	0.0	3.7
Female (15-49)	15+	152	95.4	94.7	0.7	2.6	2.0	2.0	0.0	2.6
Cameroon 2004										
Male (15-59)		351	92.0	90.0	2.0	2.9	5.1	2.3	4.0	1.7
Female (15-49)	15-59	375	93.6	89.9	3.7	2.7	3.7	1.9	0.3	1.3
Cote d'Ivoire 2005										
Male (15-49)		63	76.2	76.2	n/a	7.9	15.9	7.9	15.9	0.0
Female (15-49)	18-59	58	81.0	81.0	n/a	12.1	6.9	12.1	6.9	0.0
Malawi 2004										
Male (15-54)		148	62.2	62.2	n/a	16.9	21.0	16.9	21.0	0.0
Female (15-49)	5-54	207	67.2	67.2	n/a	25.1	7.7	21.7	7.7	3.4
Rwanda 2005										
Male (15-59)		181	93.4	92.8	0.6	0.6	6.1	0.6	4.4	1.7
Female (15-49)	18-59	225	95.1	93.8	1.3	1.3	3.6	0.4	3.6	0.9
Tanzania 2003										
Male (15-49)		124	82.3	82.3	n/a	10.5	7.3	9.7	7.3	0.8
Female (15-49)	0-59	156	83.3	83.3	n/a	8.3	8.3	8.3	8.3	0.0
Uganda 2004/05										
Male (15-59)		326	91.1	89.3	1.8	3.7	5.2	2.8	4.0	2.2
Female (15-59)	18-59	367	92.4	91.6	0.8	4.6	3.0	4.1	3.0	0.5
Zimbabwe 2005/06										
Male (15-54)		165	61.2	61.2	n/a	15.2	23.6	14.6	23.6	0.6
Female (15-49)	18-59	233	76.8	76.8	n/a	12.9	10.3	12.5	10.3	0.4

4.4 Patterns of Non-Response by Selected Risk Behaviors

Figure 3 shows patterns of non-response for HIV testing among interviewed and not tested respondents by selected risk behaviors (a more detailed list of characteristics and behaviors is provided in Appendix Tables A3-N3). Figure 3 shows no clear patterns in the HIV non-response rates by sexual risk behaviors. For example, in about one-half of the countries included in the analysis, the non-response rates are lower among males and females who had higher-risk sex in the past 12 months.

Figure 3a: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Burkina Faso 2003

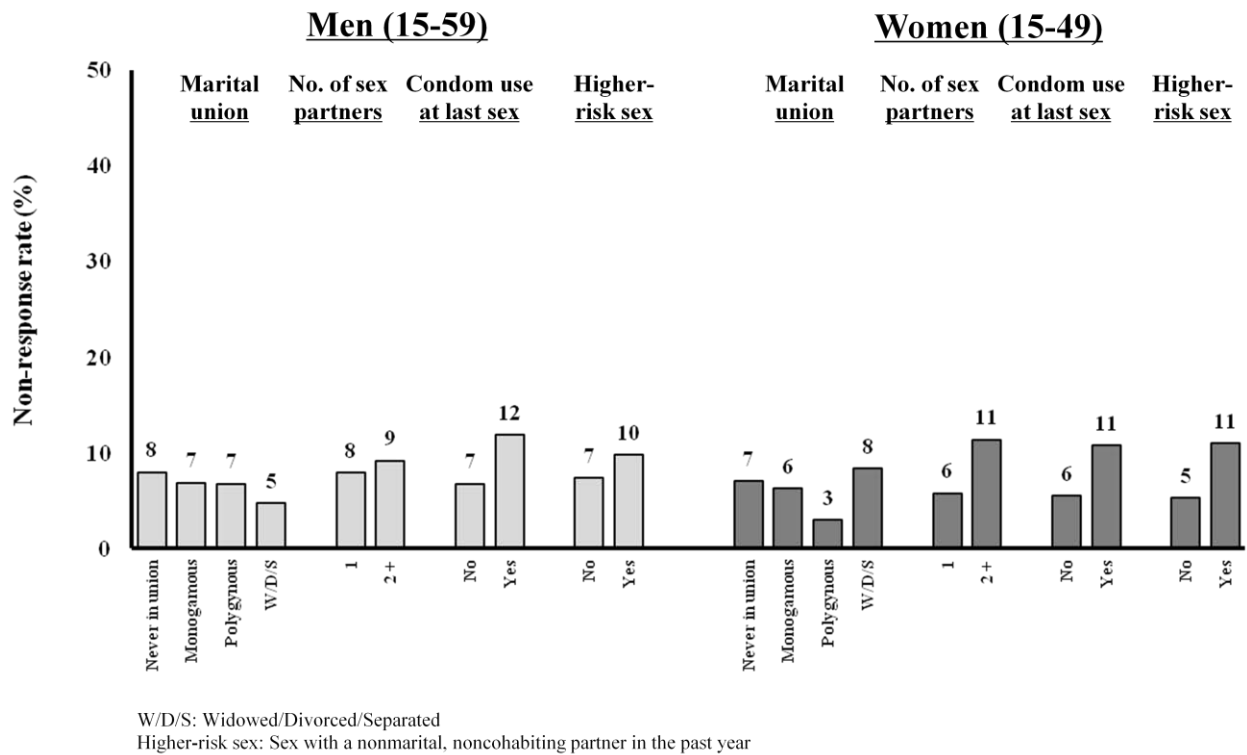


Figure 3b: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Cambodia 2005-06

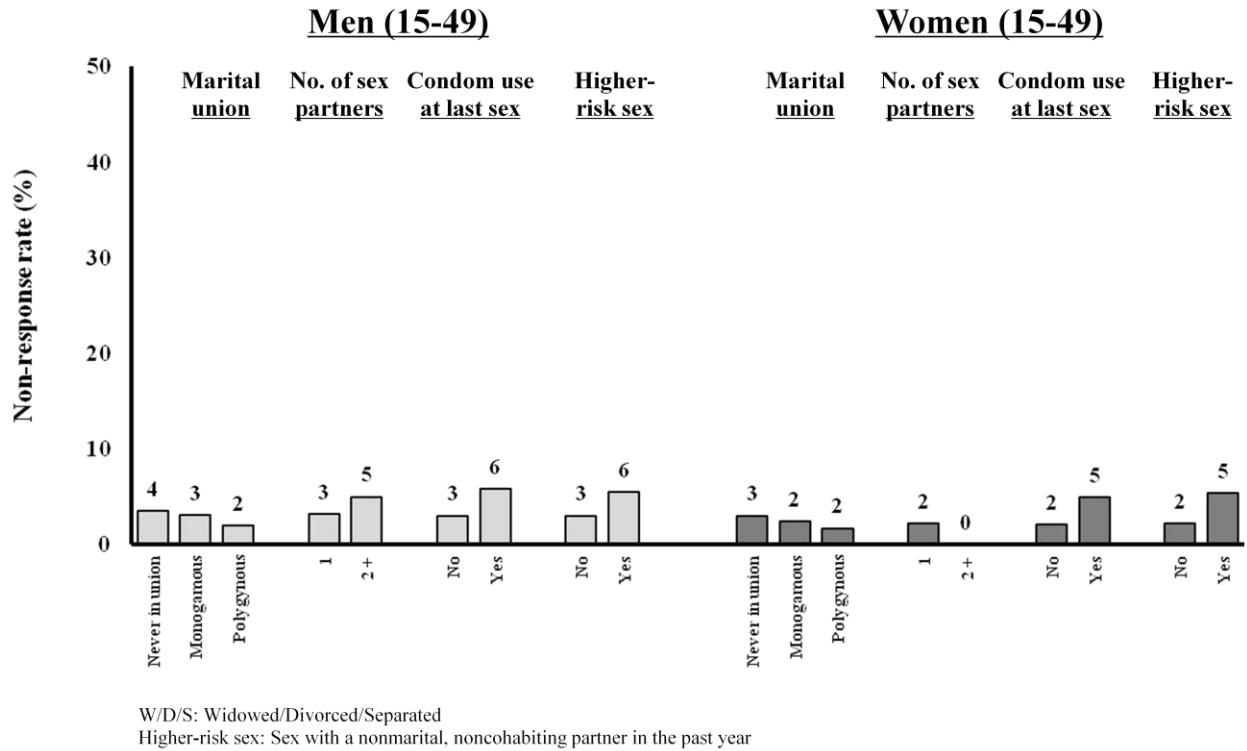


Figure 3c: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Cameroon 2004

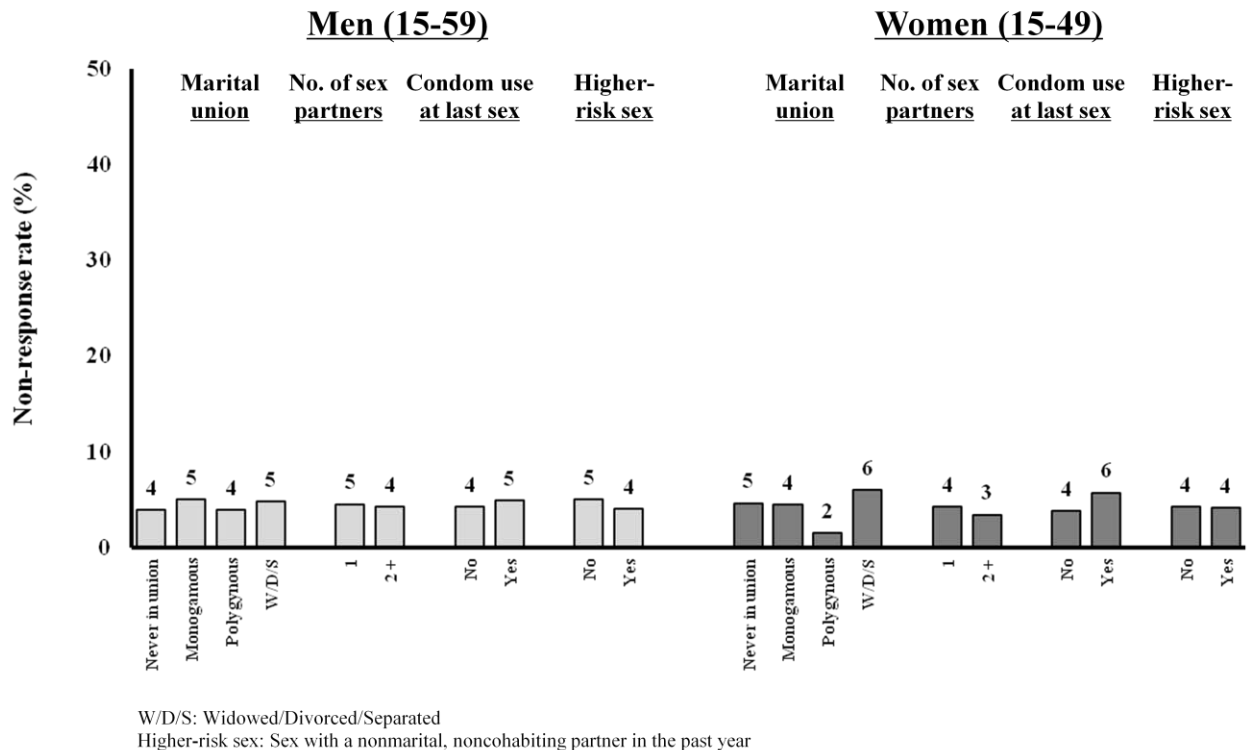


Figure 3d: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Cote d'Ivoire 2005

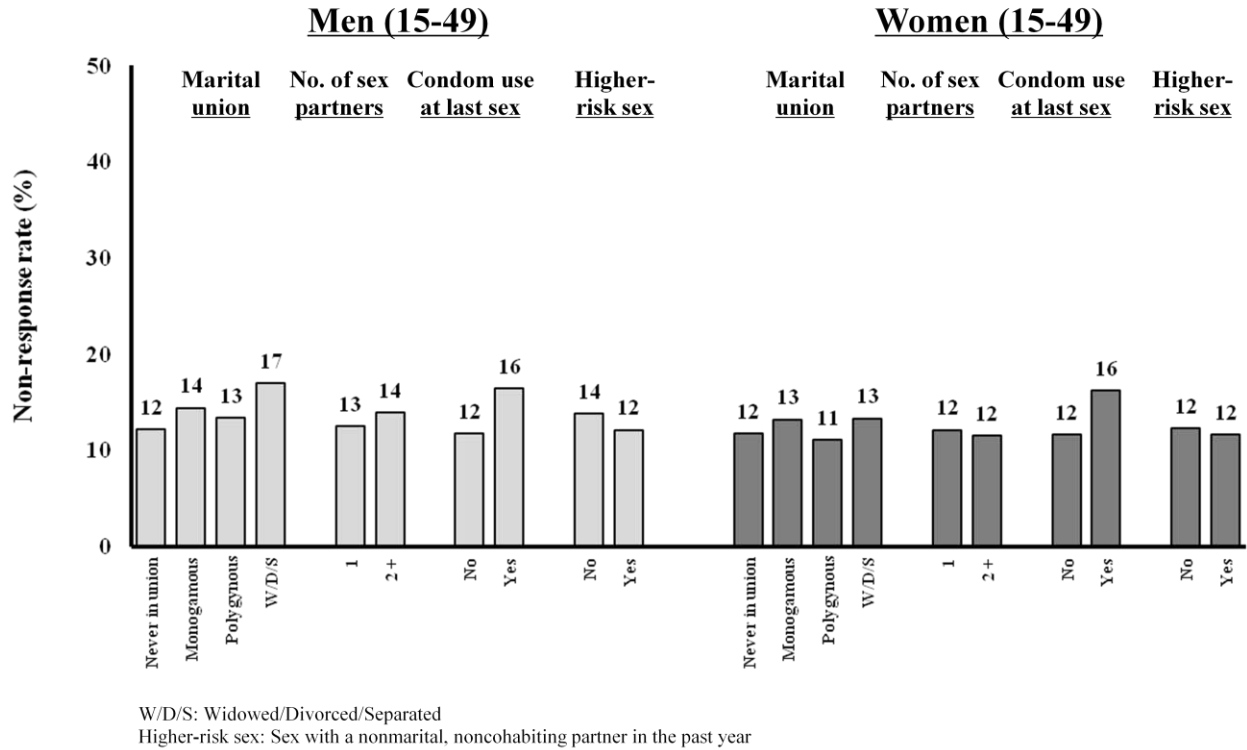


Figure 3e: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Ethiopia 2005

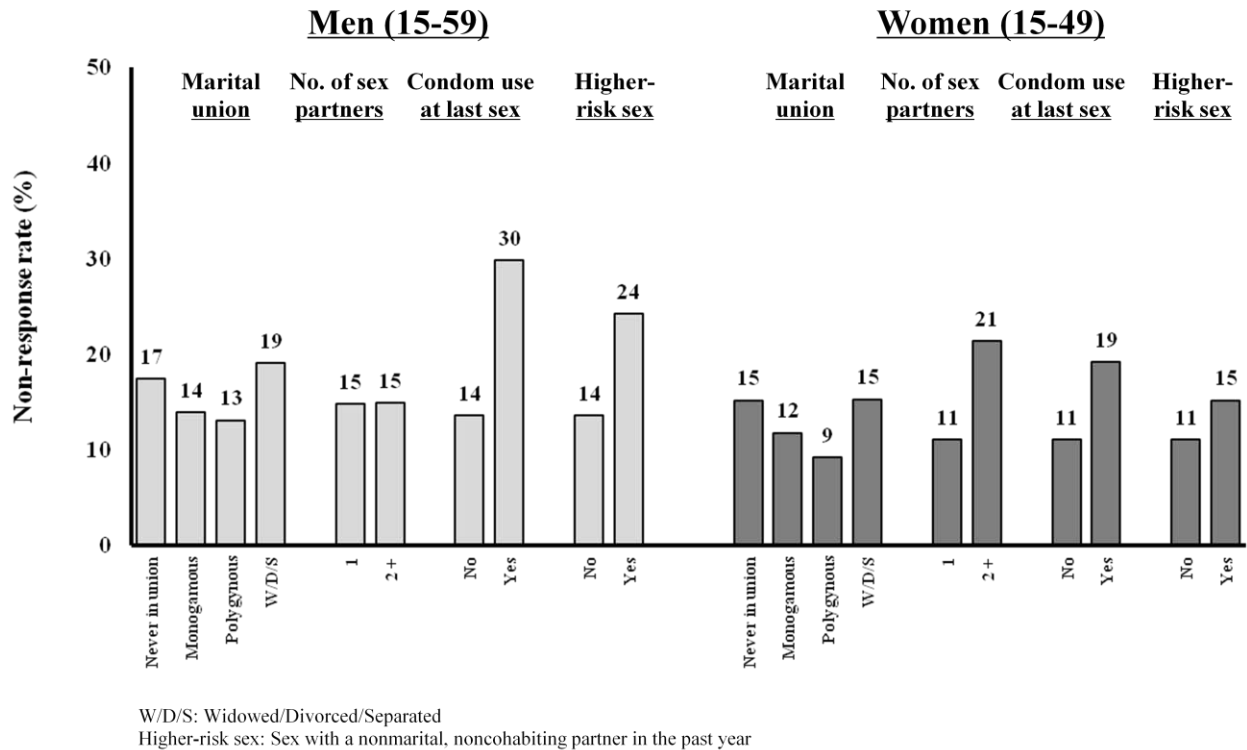


Figure 3f: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Ghana 2003

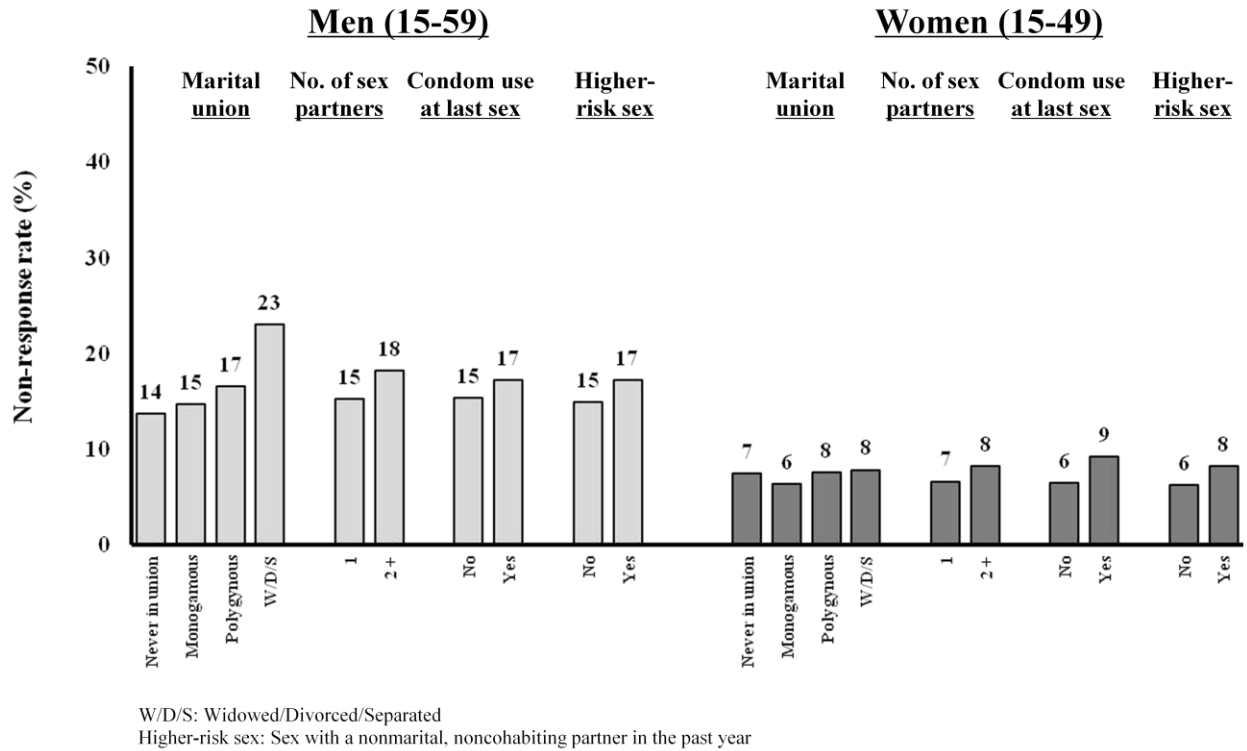


Figure 3g: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), India 2005-06

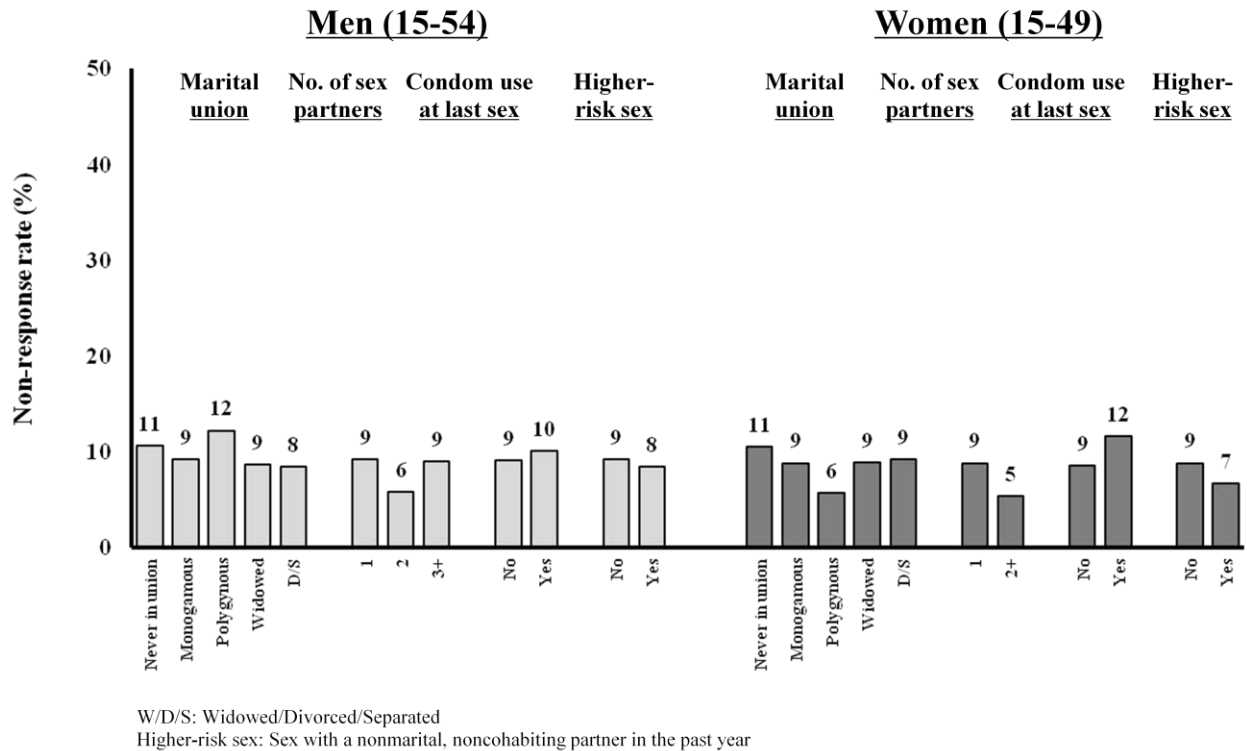


Figure 3h: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Kenya 2003

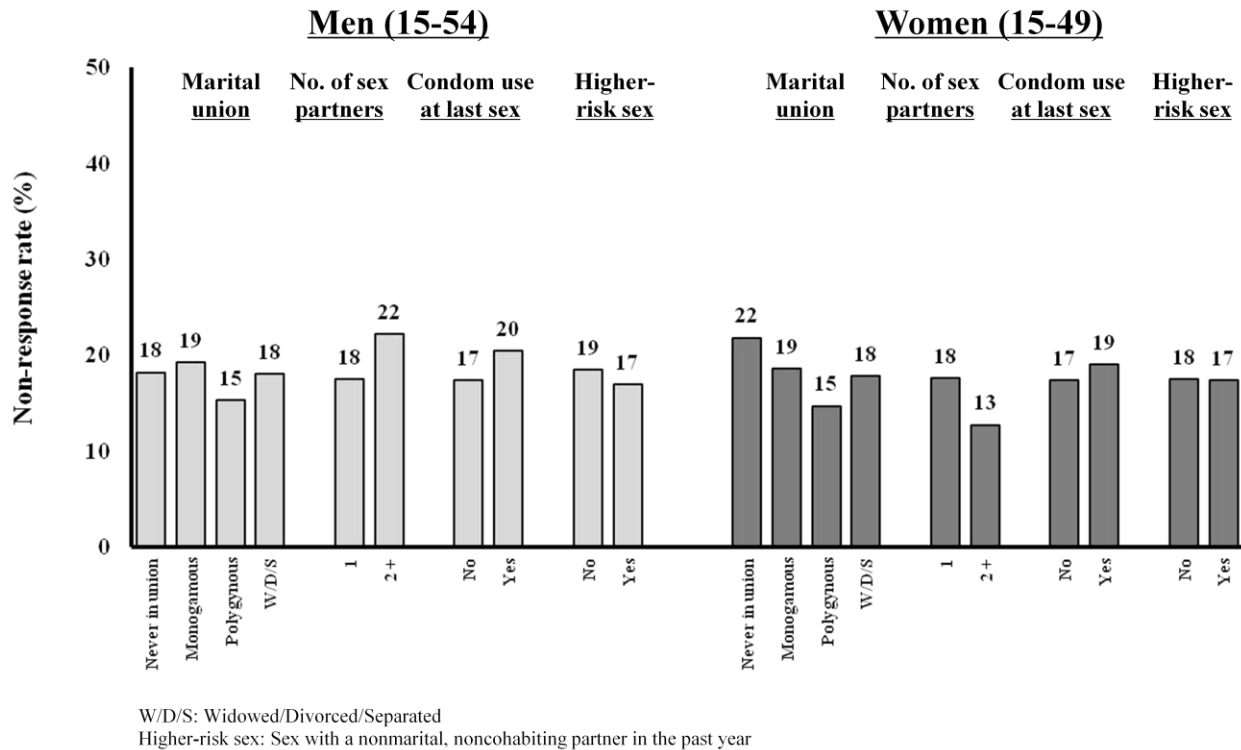


Figure 3i: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Lesotho 2004

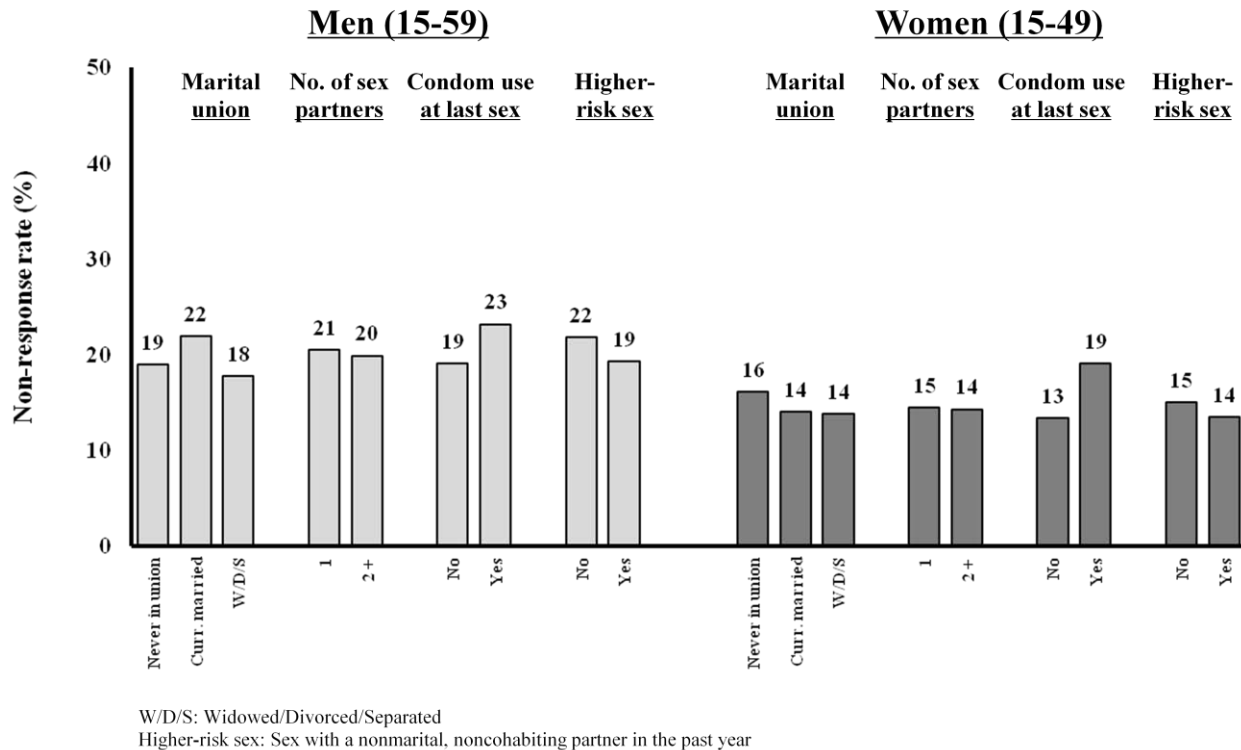


Figure 3j: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Malawi 2004

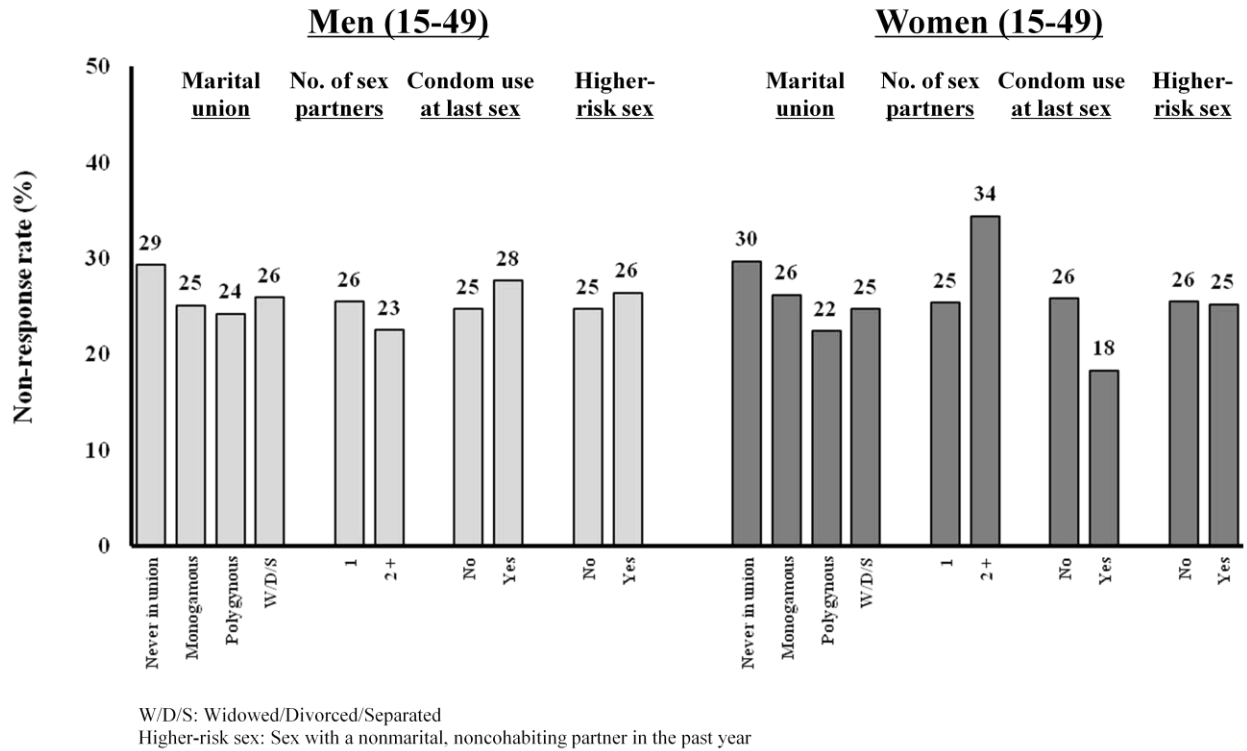


Figure 3k: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Rwanda 2005

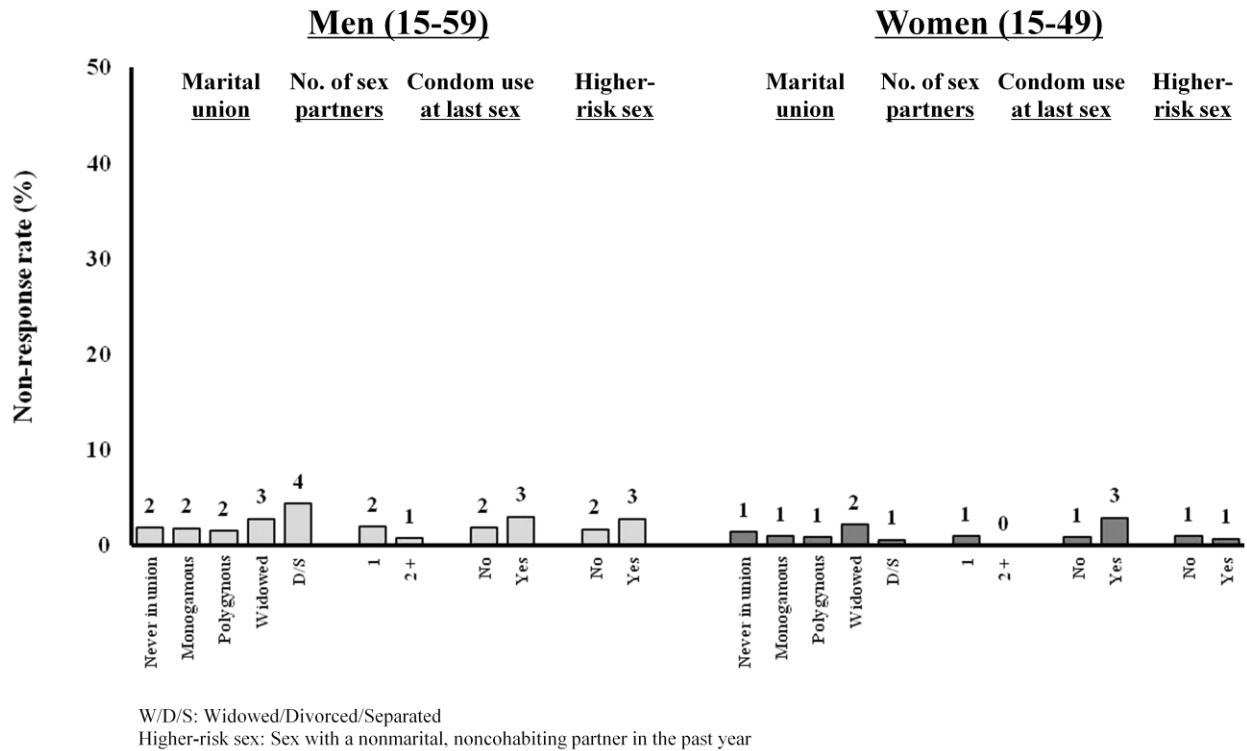


Figure 3l: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Tanzania 2003-04

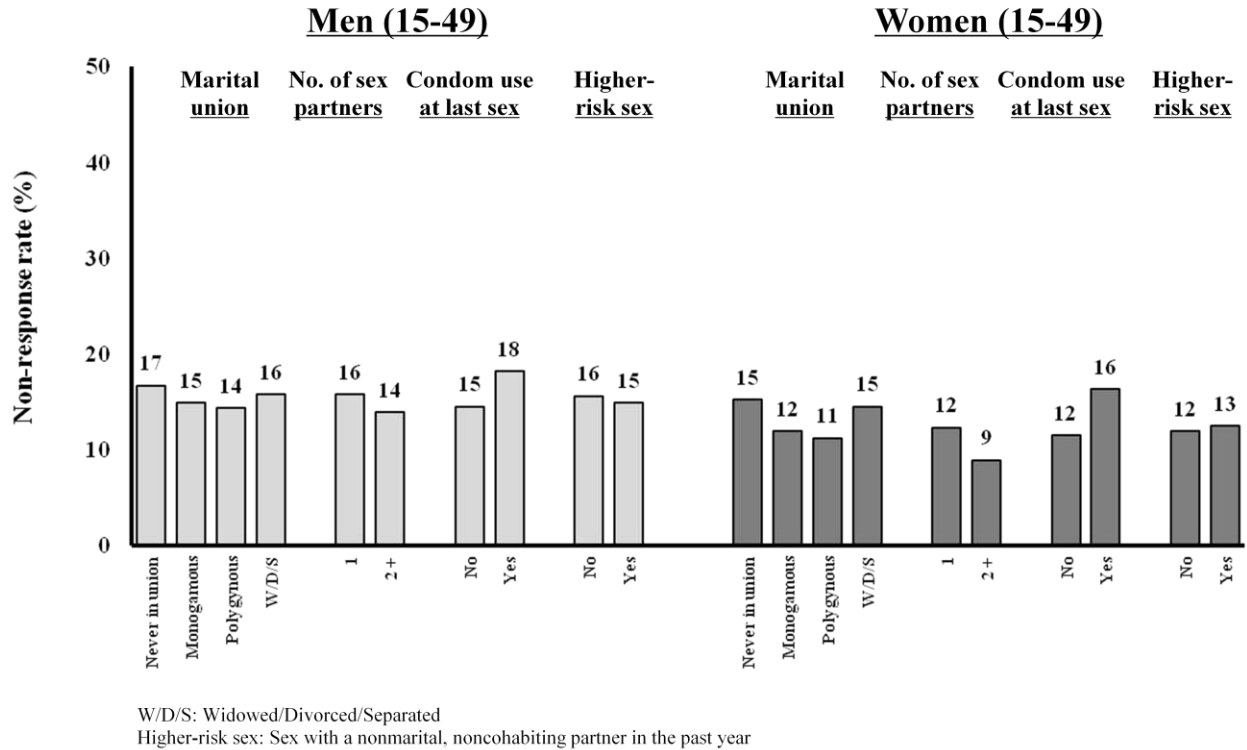


Figure 3m: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Uganda 2004-05

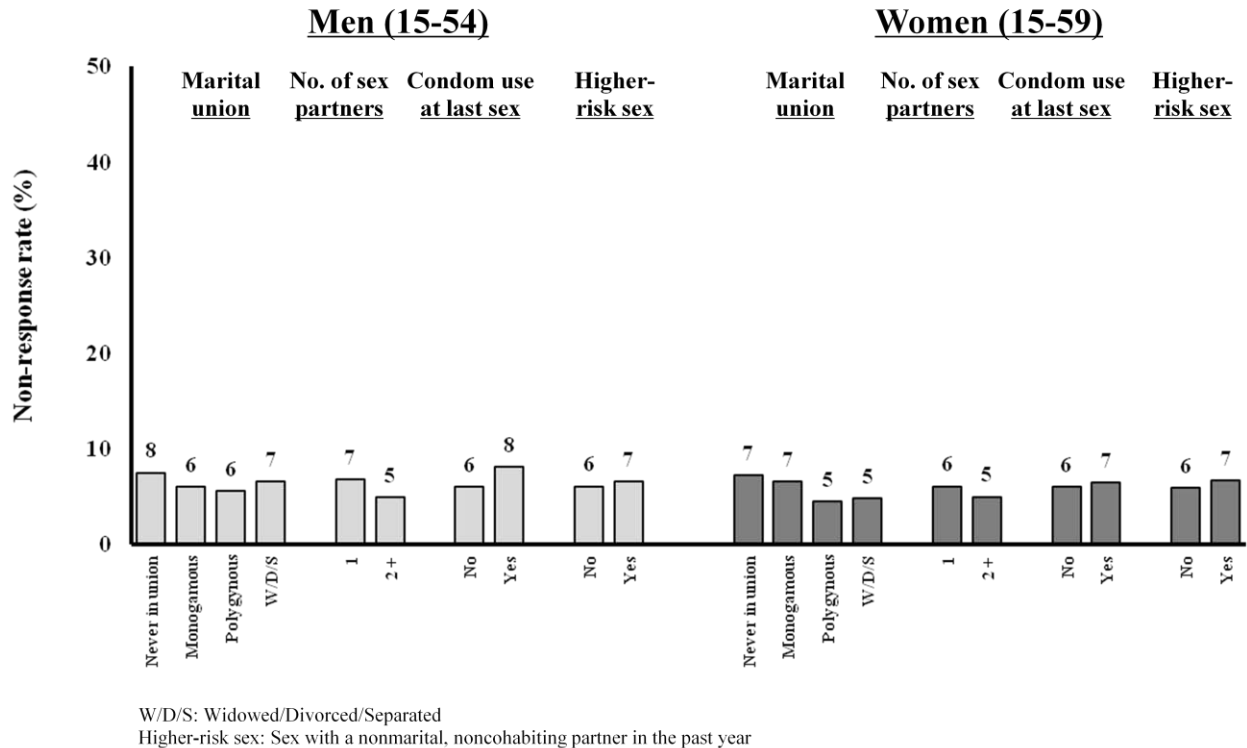
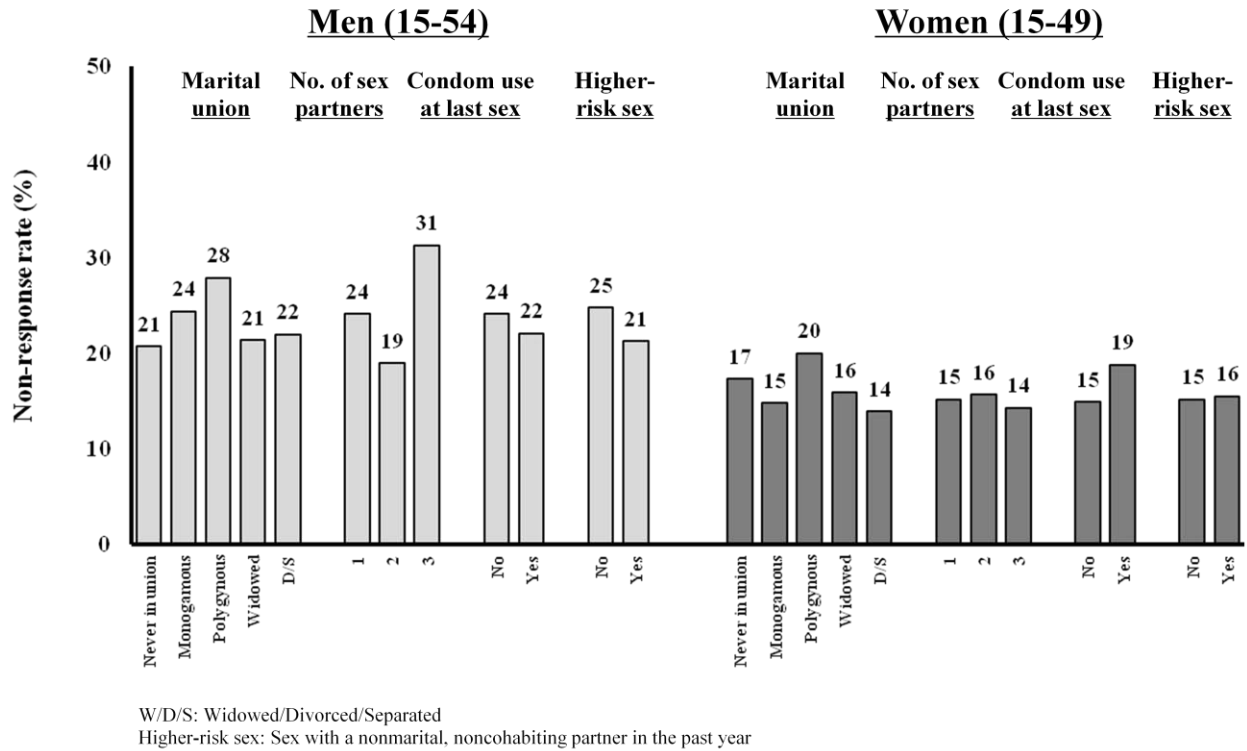


Figure 3n: Non-response rate for HIV testing by selected risk behaviors (among those interviewed), Zimbabwe 2005-06



4.5 Estimated Effects of Non-Response Bias

Table 6 shows how the predicted HIV prevalence among non-respondents differs from the observed HIV prevalence among tested respondents and what effect this non-response bias has on the adjusted prevalence estimates for all eligible respondents. In most countries, non-tested males and females have higher predicted HIV prevalence than the observed prevalence among those who were tested. In 7 of the 14 countries for males and in 5 of the 14 countries for females, the predicted prevalence among non-tested is significantly greater than the observed prevalence among those tested (Figure 4). In Uganda for both males and females, and in Kenya for females, the predicted prevalence among the non-tested is significantly lower than among those tested.

Table 6: Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimate for all eligible males and females, DHS/AIS countries with linked HIV testing data

Country	Observed HIV prevalence among tested respondents	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible respondents
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Burkina Faso 2003								
Male (15-59)	1.94	2.68	2.48	2.91	2.52	2.11	2.57 *	2.02
Female (15-49)	1.83	3.56	2.30	3.71	2.35	2.78	3.15 *	1.94
Cambodia 2005								
Male (15-49)	0.62	1.07	0.79	1.09	0.82	0.38	0.88	0.64
Female (15-49)	0.61	1.49	0.61	1.41	0.54	0.53	1.02	0.63
Cameroon 2004								
Male (15-59)	3.91	5.17	5.10	5.44	5.00	3.71	5.13 *	4.04
Female (15-49)	6.75	8.73	8.24	8.72	8.87	7.12	8.51 *	6.90
Cote d'Ivoire 2005								
Male (15-49)	2.86	3.39	3.21	3.22	3.48	2.29	3.29	2.98
Female (15-49)	6.40	6.89	7.73	7.15	7.93	6.05	7.29 *	6.64
Ethiopia 2005								
Male (15-59)	0.92	1.44	1.23	1.44	1.30	0.87	1.34 *	0.99
Female (15-49)	1.86	3.46	3.23	3.50	4.07	1.62	3.39 *	2.06
Ghana 2003								
Male (15-59)	1.66	2.14	1.62	2.27	1.50	2.40	1.98	1.72
Female (15-49)	2.70	2.97	2.46	3.10	2.40	2.56	2.77	2.70
India 2005/06								
Male (15-54)	0.35	0.44	0.53	0.44	0.51	0.58	0.50 *	0.38
Female (15-49)	0.22	0.25	0.32	0.24	0.30	0.36	0.28 *	0.23
Kenya 2003								
Male (15-54)	4.71	4.47	5.81	4.83	5.54	4.28	5.11	4.81
Female (15-49)	8.70	6.82	9.24	7.19	8.00	7.59	7.46 *	8.45
Lesotho 2004								
Male (15-59)	18.94	19.12	19.18	18.94	18.32	20.66	19.15	19.01
Female (15-49)	26.37	25.17	24.54	25.70	23.80	23.72	25.00	26.09

(Cont'd)

Table 6 - Continued

Country	Observed HIV prevalence among tested respondents	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible respondents
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Malawi 2004								
Male (15-54)	10.23	9.53	11.37	9.44	12.74	9.31	10.20	10.22
Female (15-49)	13.32	12.14	12.68	12.02	13.01	13.28	12.24	12.99
Rwanda 2005								
Male (15-59)	2.24	3.00	3.16	4.42	2.87	3.26	3.09 *	2.28
Female (15-49)	3.61	5.74	3.84	5.21	4.53	4.75	4.64	3.64
Uganda 2004/05								
Male (15-59)	5.15	3.88	4.52	3.87	4.41	5.16	4.28 *	5.03
Female (15-59)	7.29	6.24	7.01	6.58	6.86	5.92	6.58 *	7.22
Tanzania 2003								
Male (15-49)	6.26	6.84	7.38	6.99	7.37	5.45	7.04 *	6.44
Female (15-49)	7.70	8.40	7.20	8.36	7.29	6.94	8.11	7.77
Zimbabwe 2005/06								
Male (15-54)	14.75	15.28	17.38	15.79	16.67	19.05	16.35 *	15.28
Female (15-49)	21.12	19.90	21.38	20.06	21.48	20.71	20.51	20.97

* Significant at 5%

Figure 4a: Comparison of observed HIV prevalence among tested men and predicted HIV prevalence among non-tested men

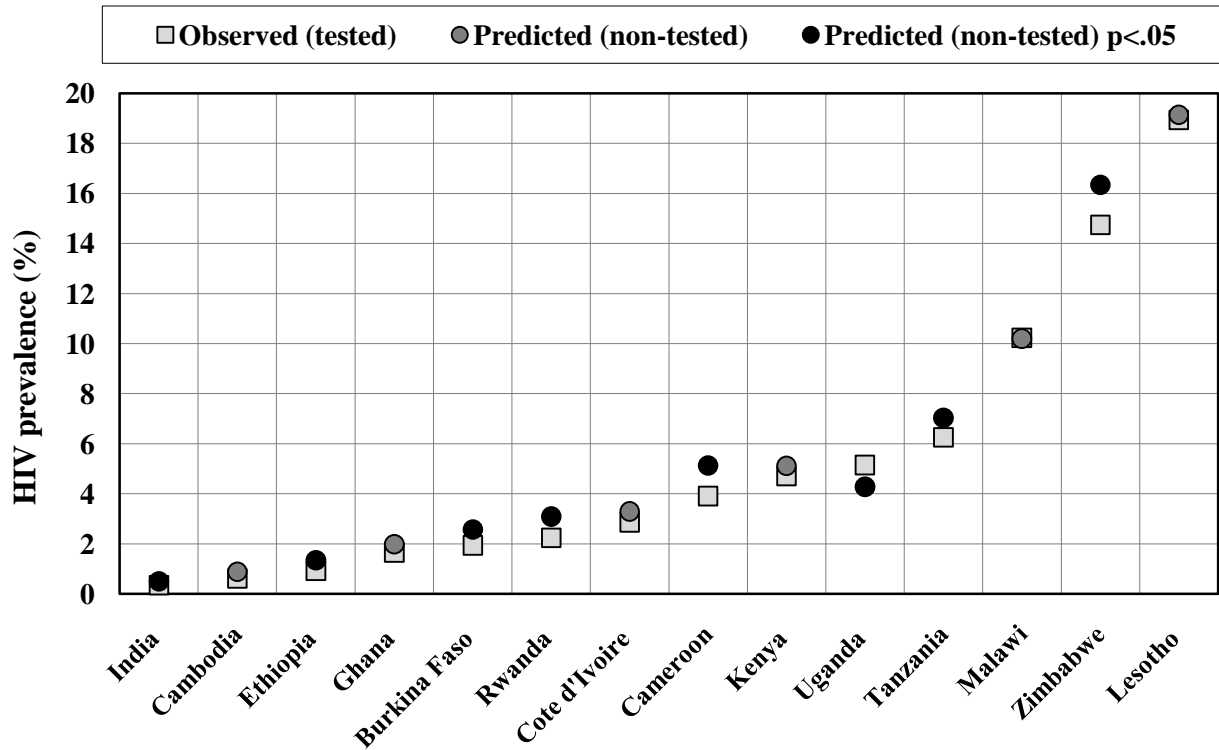
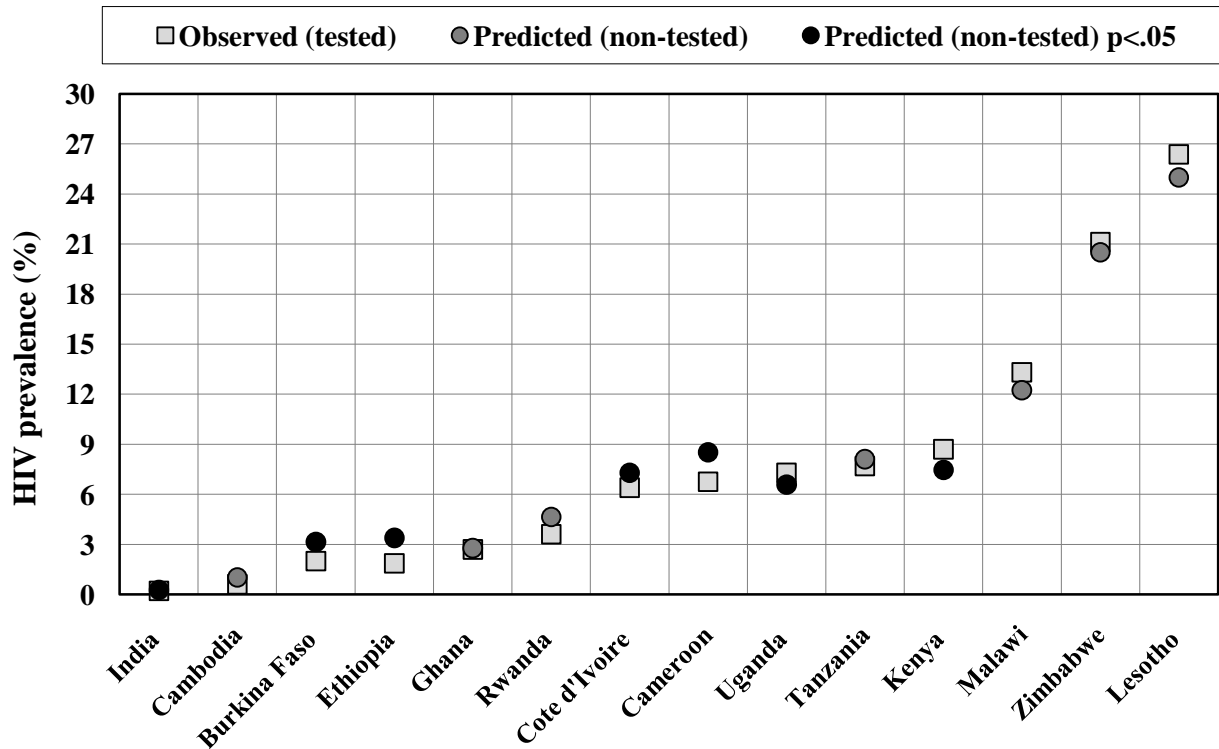


Figure 4b: Comparison of observed HIV prevalence among tested women and predicted HIV prevalence among non-tested women



In each country, male non-respondents have higher predicted prevalence than the observed prevalence among those who were tested, except in Malawi, where the difference is negligible, and Uganda, where the predicted prevalence among non-respondent males is 17 percent lower than the observed prevalence. This bias is particularly large in Ethiopia (46 percent) and Cambodia and India (both 41 percent). For females, this bias is most pronounced in Ethiopia, where non-respondent females have 82 percent higher predicted prevalence than the observed prevalence among the tested females. However, in five countries (Kenya, Lesotho, Malawi, Uganda, and Zimbabwe), the predicted HIV prevalence among non-respondent females is lower than the observed HIV prevalence among those tested. For example, in Kenya, non-respondent females have 14 percent lower predicted HIV prevalence than those tested, largely because of higher response rates in higher HIV prevalence groups, such as among Luo women.

The ratio of predicted HIV prevalence among the non-tested to the observed prevalence among those tested varied by interview status of the not tested and by reasons for not testing, but there were no clear patterns (Figure 5). For example, among non-tested males and females, predicted HIV prevalence rates among the interviewed were greater than among those not interviewed in about half of the 14 countries and smaller or about the same in the other half of the countries.

Figure 5a: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Burkina Faso 2003

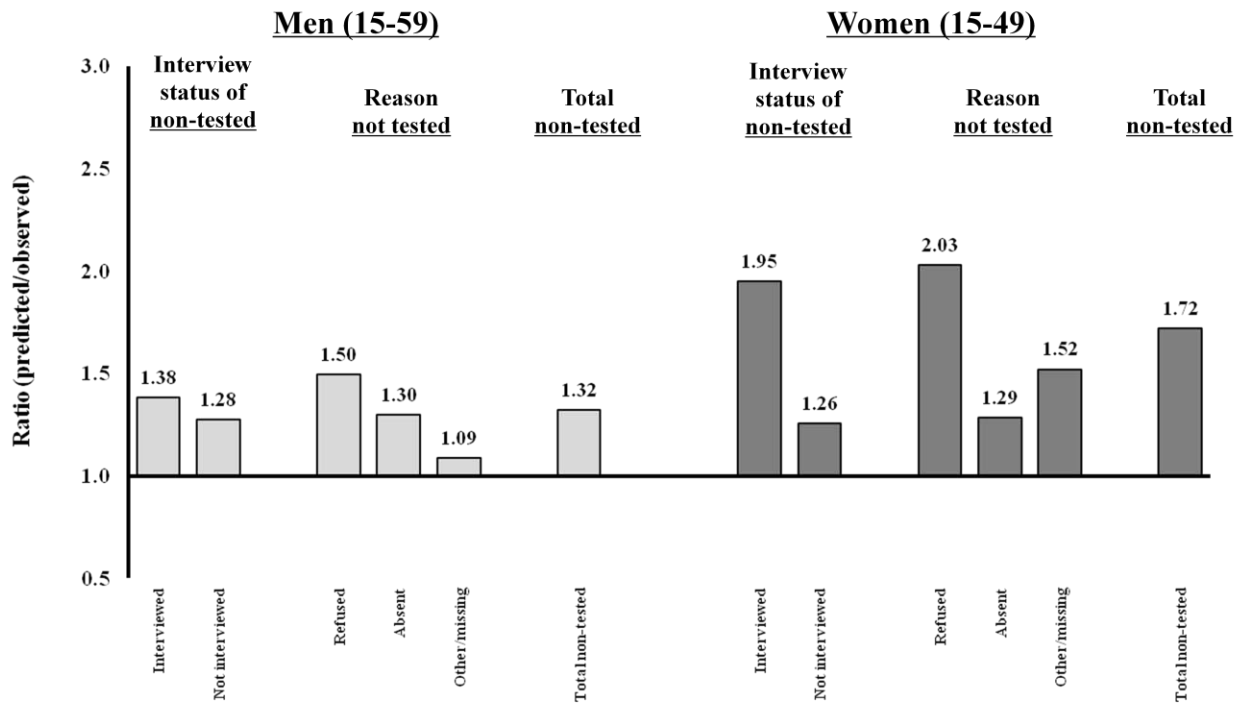


Figure 5b: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Cambodia 2005-06

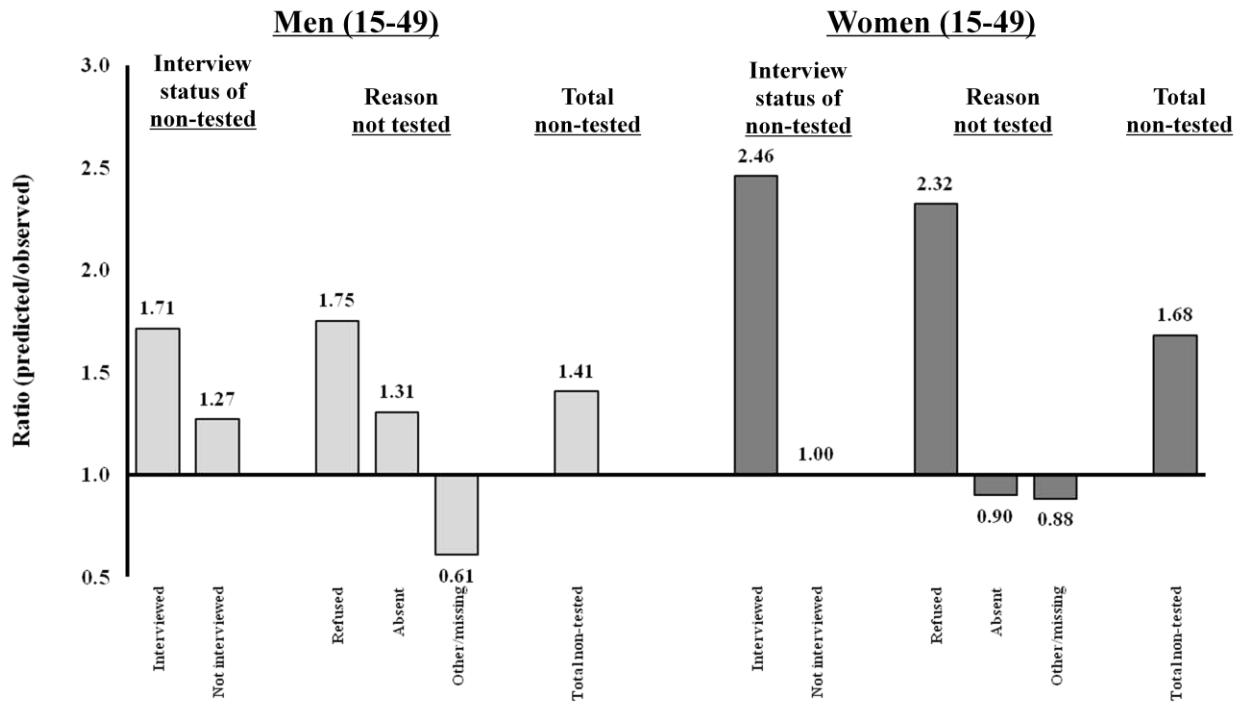


Figure 5c: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Cameroon 2004

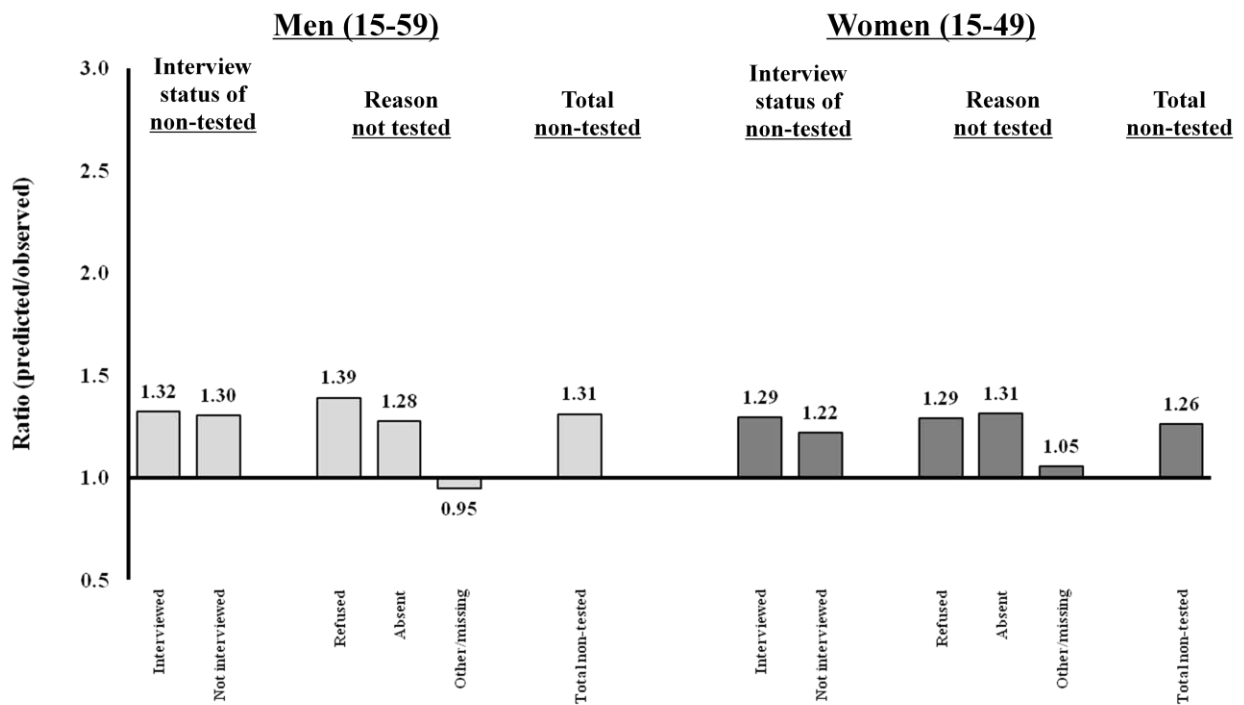


Figure 5d: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Cote d'Ivoire 2005

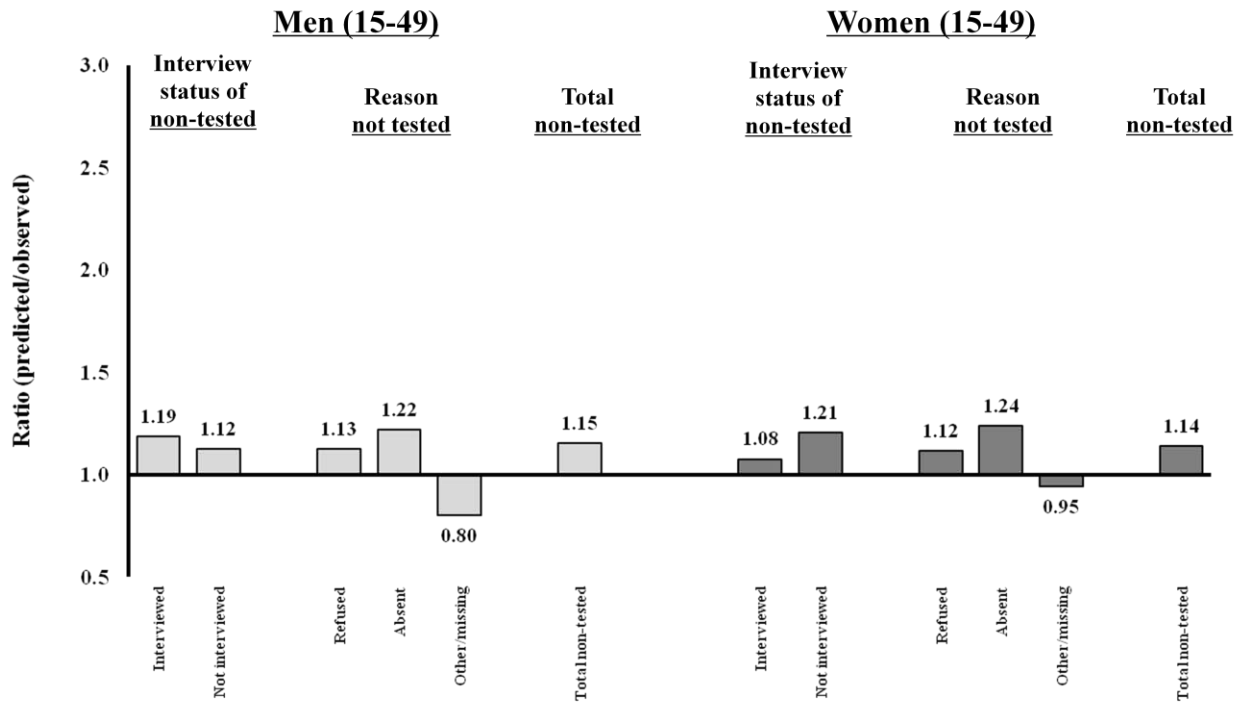


Figure 5e: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Ethiopia 2005

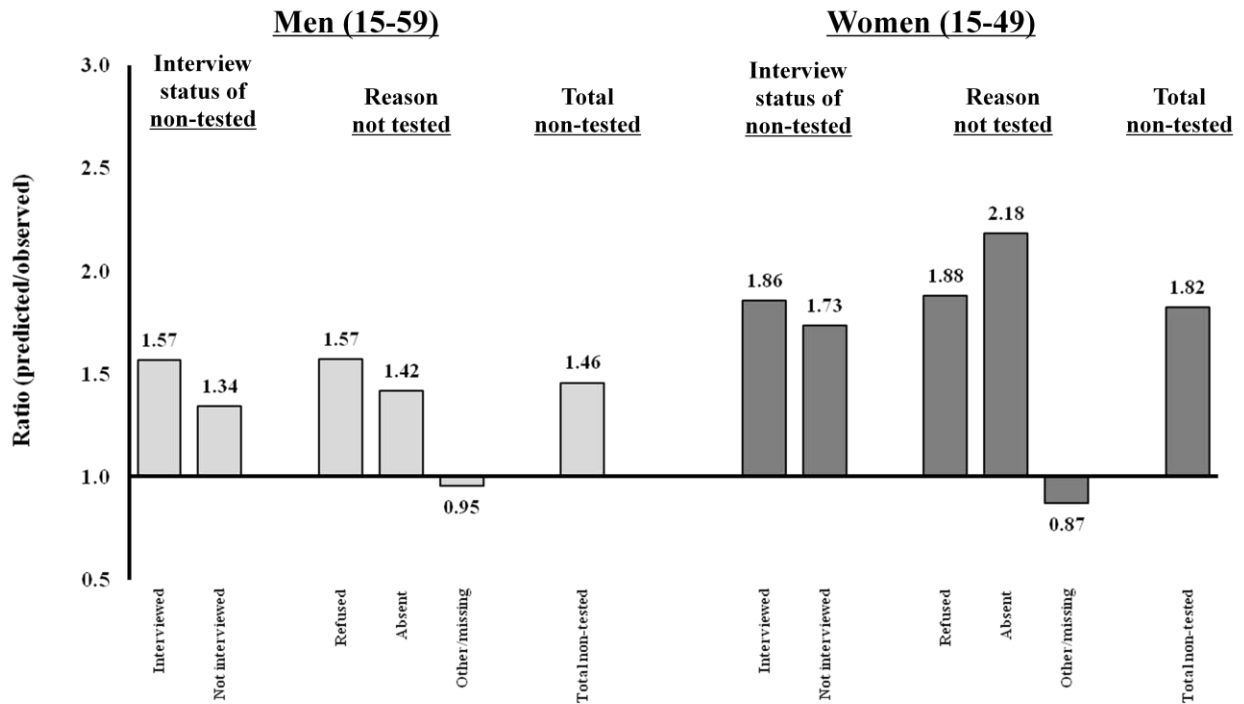


Figure 5f: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Ghana 2003

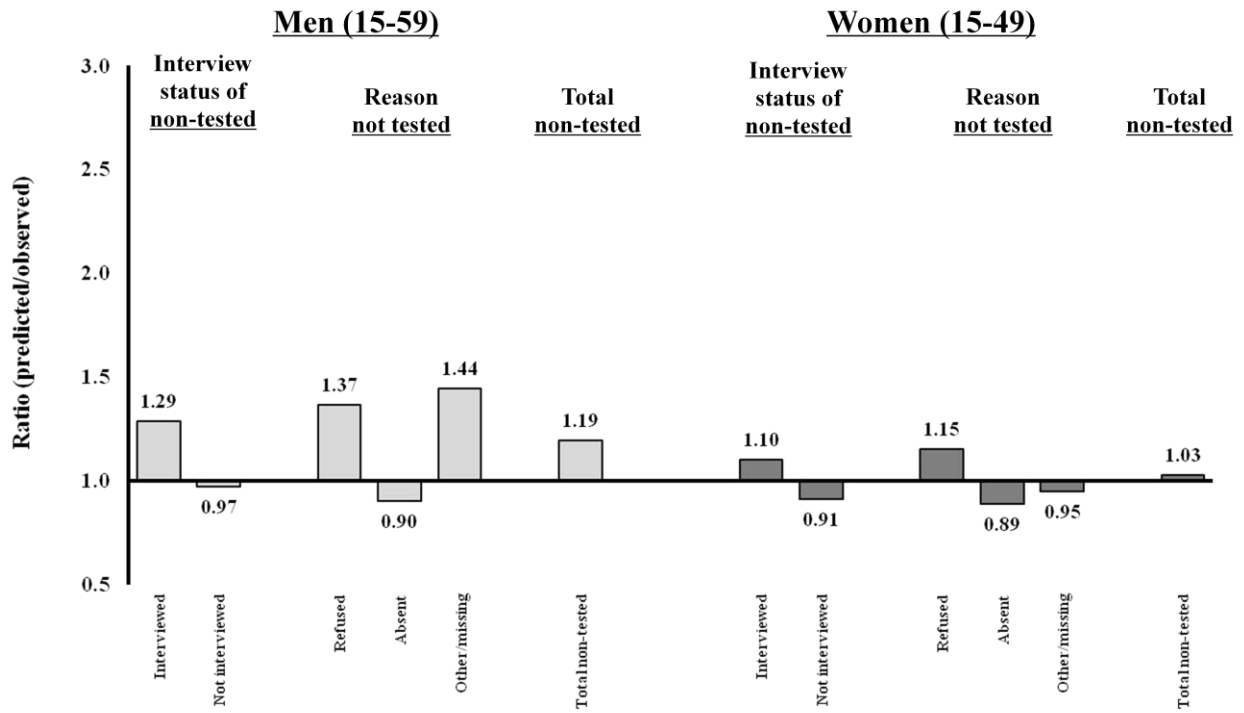


Figure 5g: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, India 2005-06

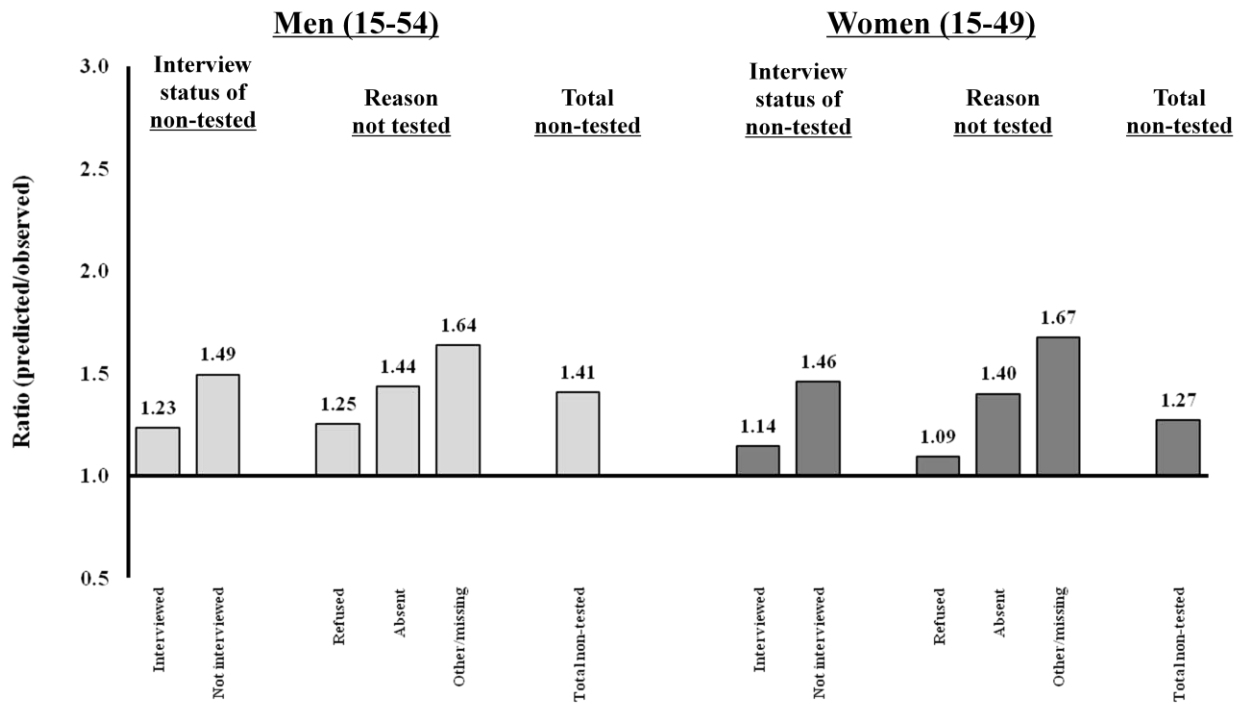


Figure 5h: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Kenya 2003

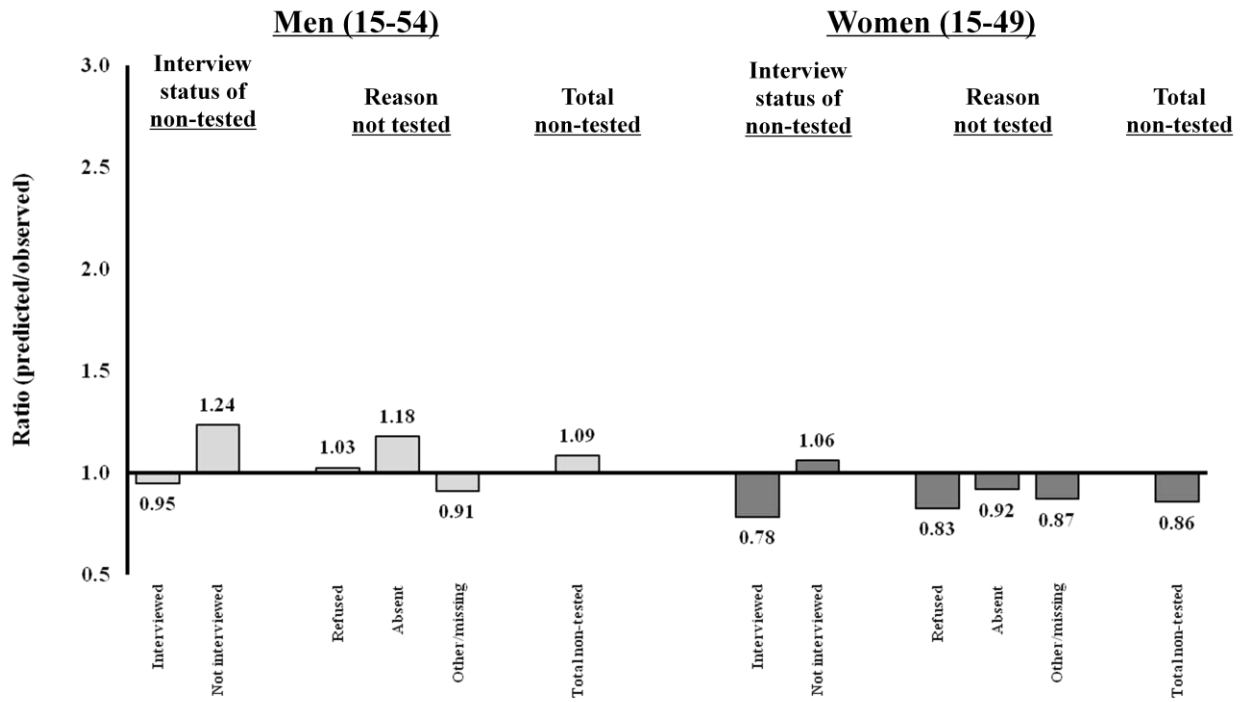


Figure 5i: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Lesotho 2004

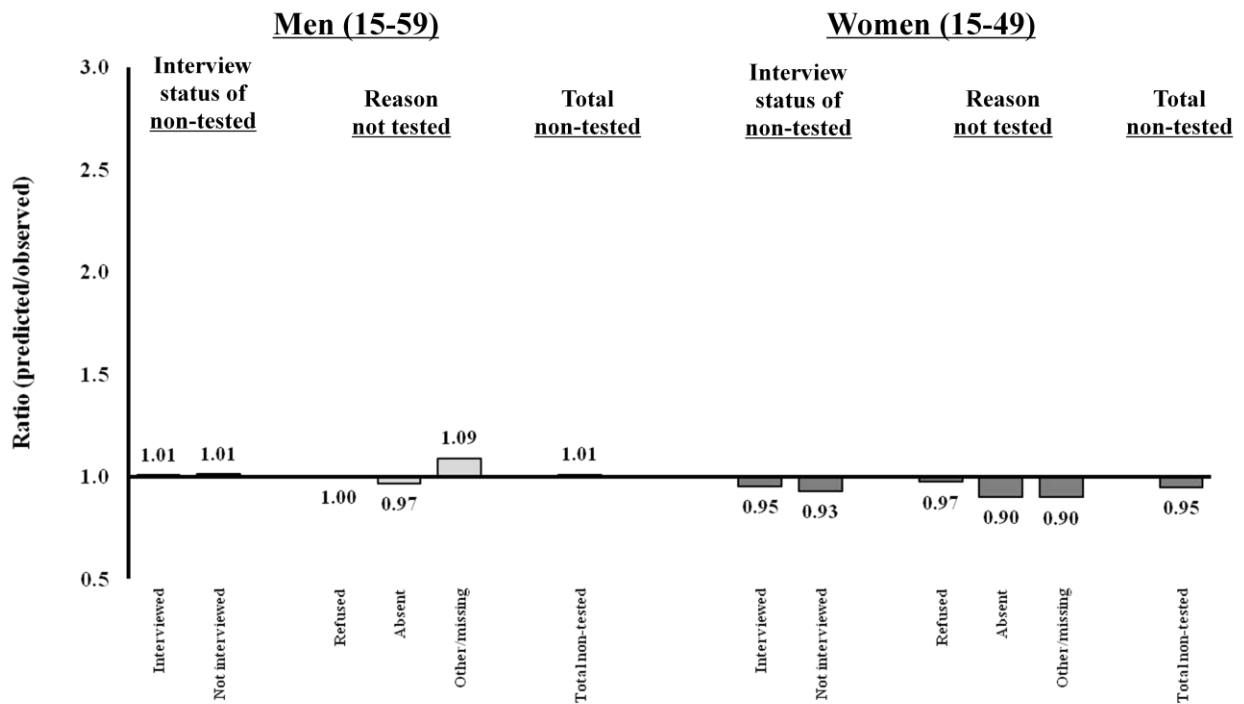


Figure 5j: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Malawi 2004

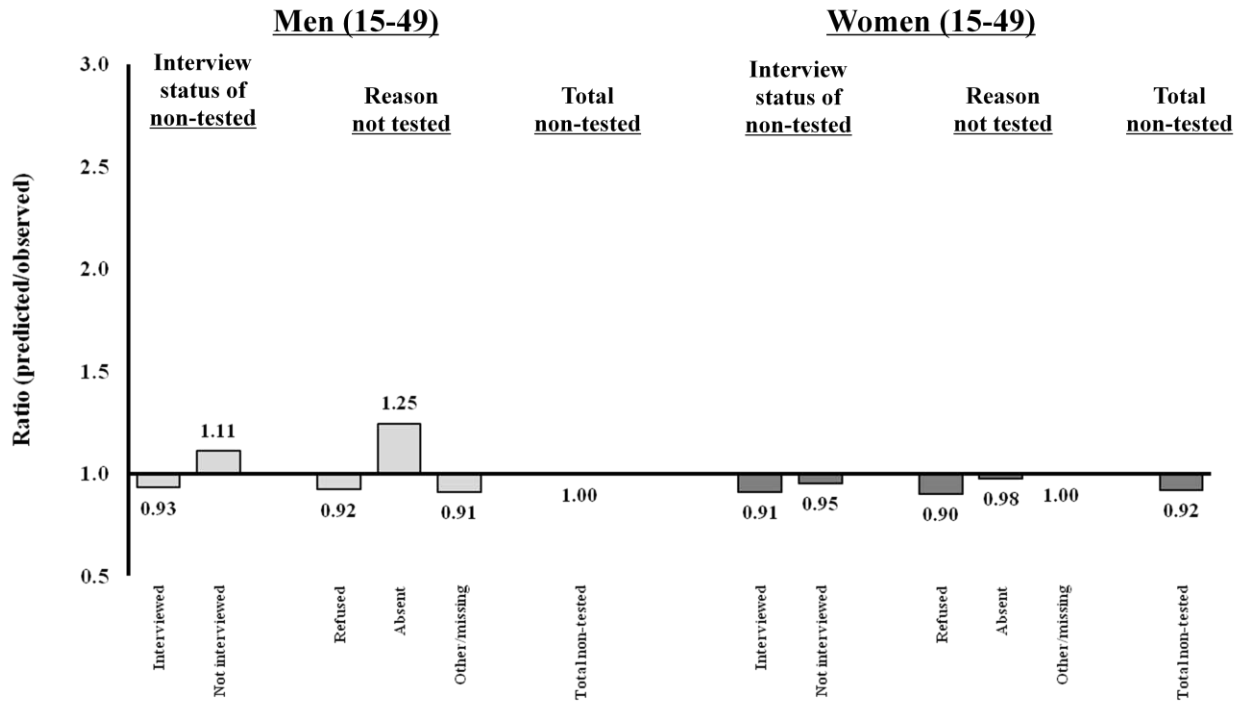


Figure 5k: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Rwanda 2005

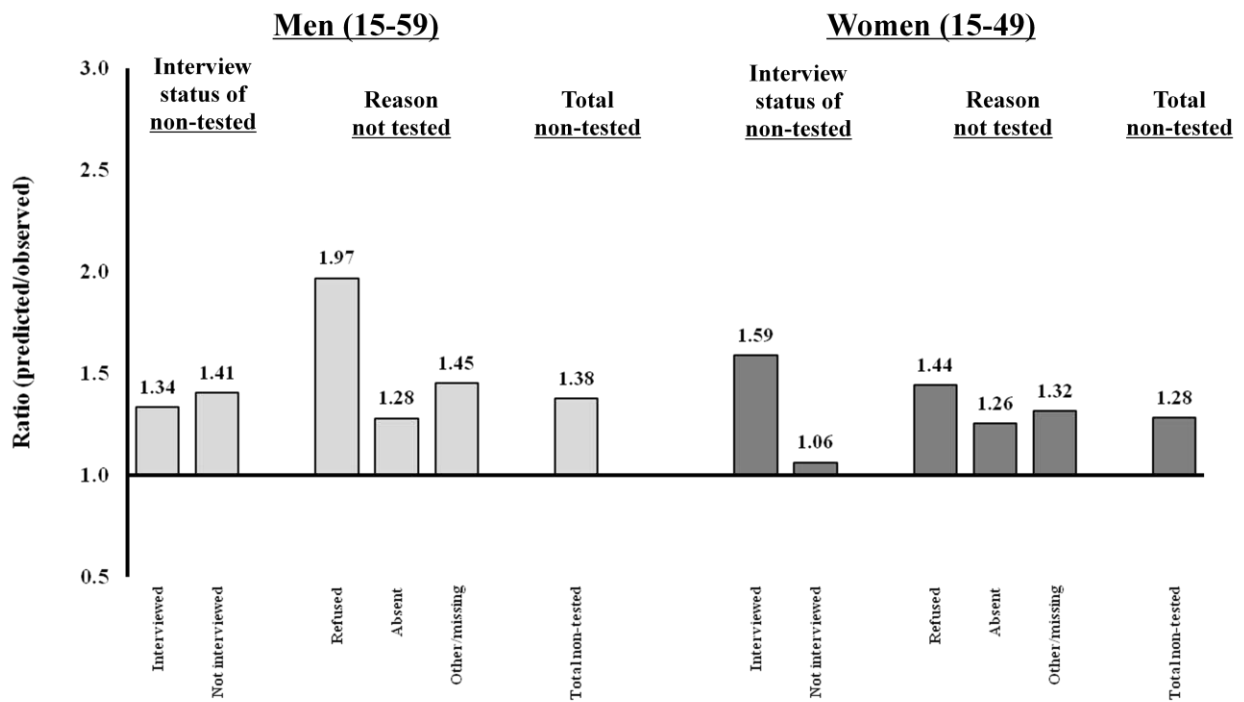


Figure 5l: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Tanzania 2003-04

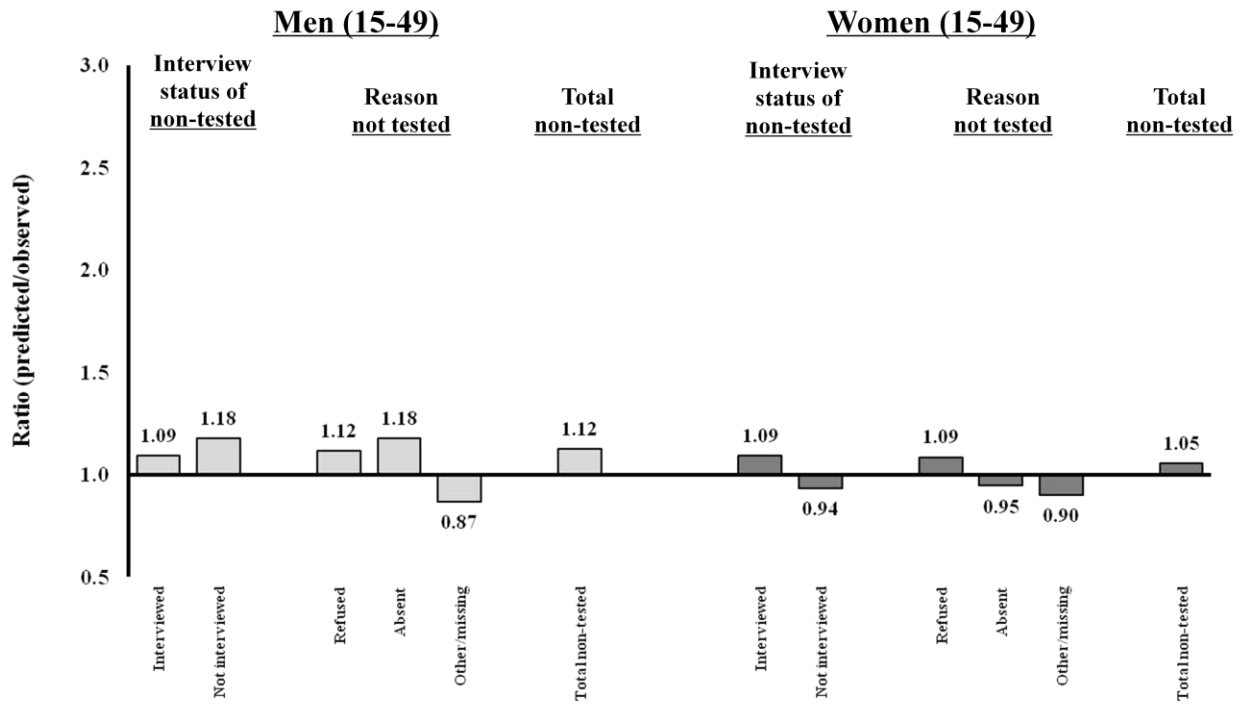


Figure 5m: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Uganda 2004-05

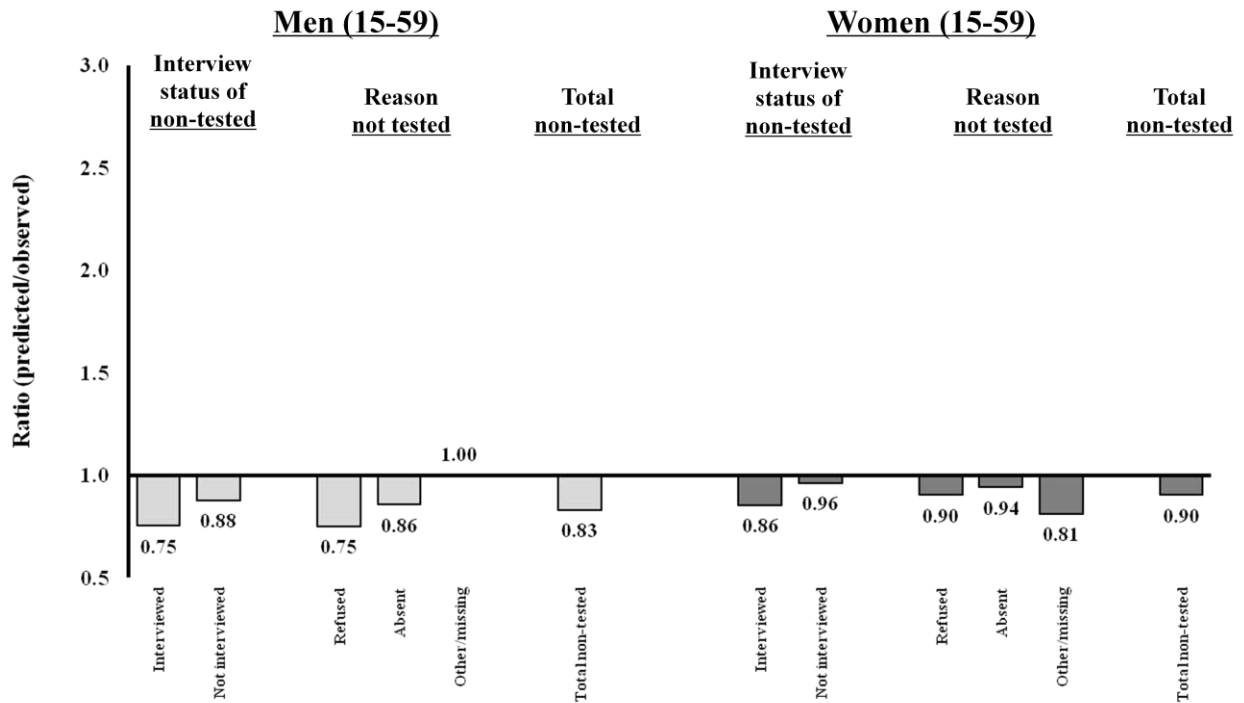
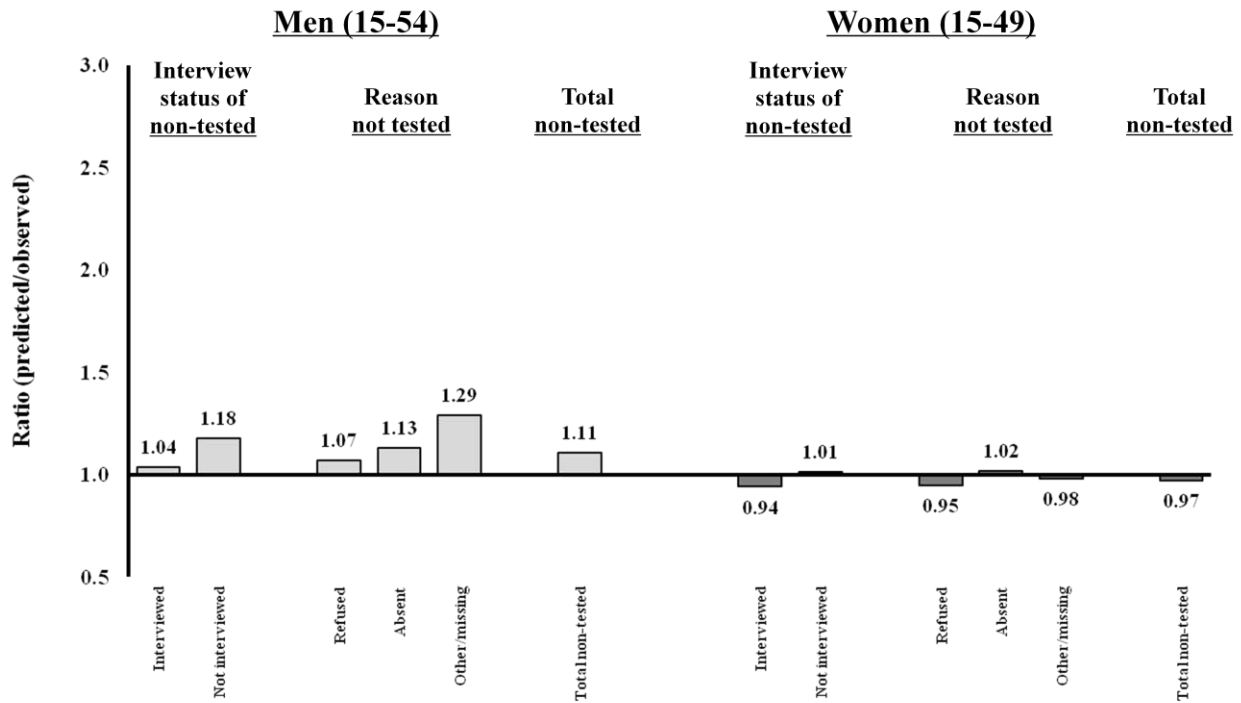


Figure 5n: Ratio of predicted HIV prevalence among non-tested to observed prevalence among tested by interview status of non-tested and by reason for non-testing, Zimbabwe 2005-06



Ratios of the predicted HIV prevalence among the non-tested to the observed prevalence among the tested were also examined by background characteristics including age, residence, education, and wealth, but again, no systematic associations were observed (results not shown).

Overall, adjusting the observed HIV national estimates from tested males and females by accounting for the predicted rates among the non-respondents makes little difference to the observed estimates in most cases (Figure 6). Even in countries in which predicted prevalence among the non-respondents is substantially higher or lower, the adjusted prevalence for all eligible respondents is about the same as the observed prevalence based only on the tested respondents. Although not statistically significant in all 14 countries, the effects of non-response tend to be somewhat greater among lower-prevalence countries for both males and females. The small effects of the non-response bias on the observed national estimates are a result of a much smaller proportion of non-respondents than those who were tested. Even in Kenya, where the non-response rates were among the highest in the 14 countries analyzed, and where predicted HIV prevalence among non-responding males is about 9 percent higher, the adjusted prevalence estimate of 4.8 percent for all eligible males is only slightly higher than the observed estimate of 4.7 percent for tested males.

Figure 6a: Ratios of adjusted HIV prevalence among all eligible men and observed HIV prevalence among tested men

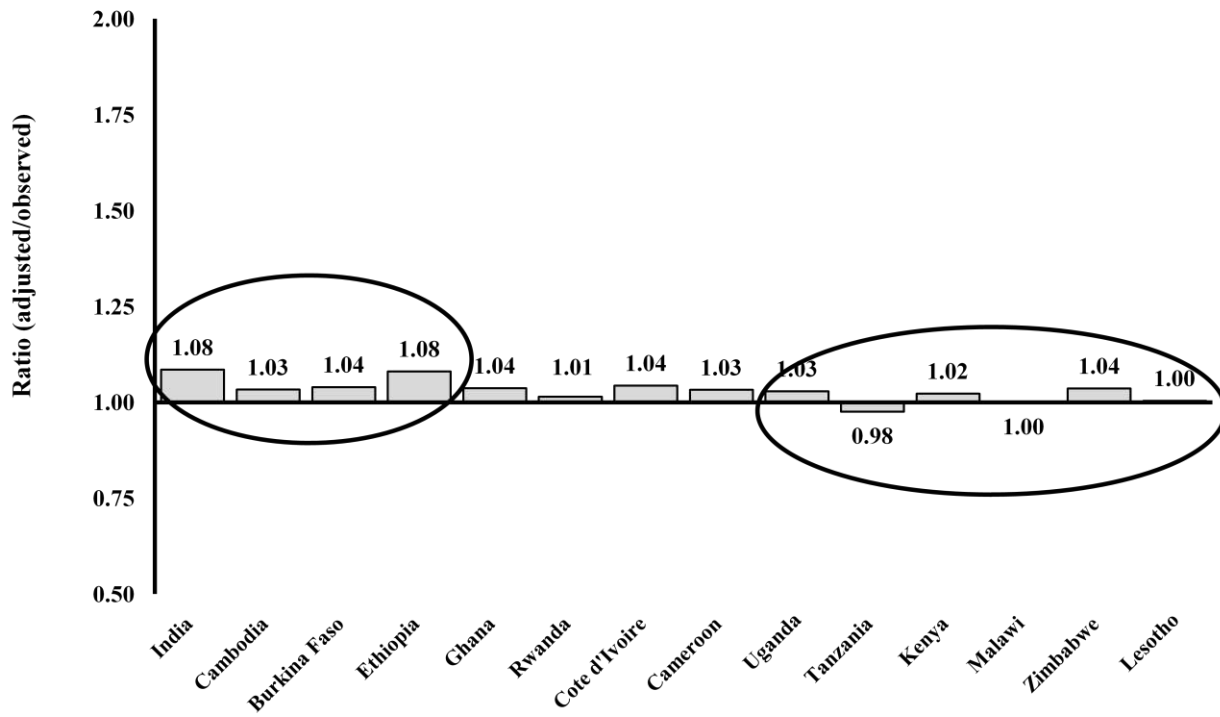
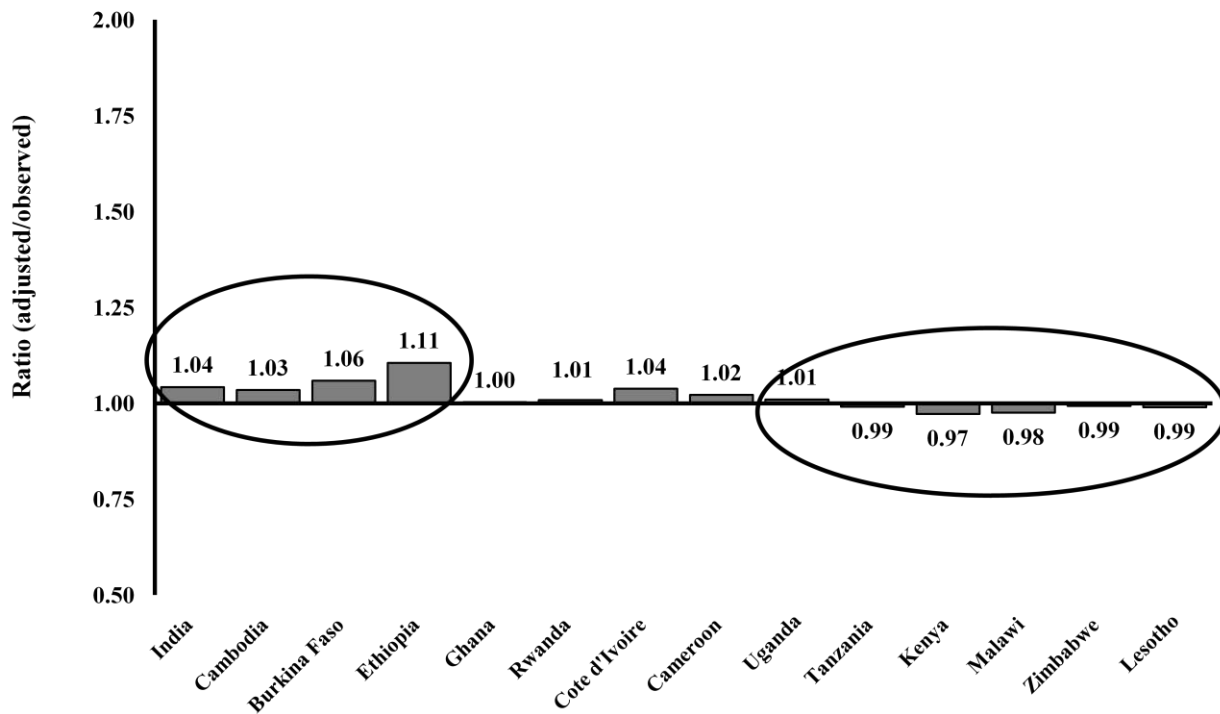


Figure 6b: Ratios of adjusted HIV prevalence among all eligible women and observed HIV prevalence among tested women



5

Conclusions

Minimizing non-response is a major challenge to all population-based surveys (Cleland and Scott, 1987; WHO and UNAIDS, 2005). The main reasons for non-response are refusal and absence. There is evidence that absence may be related to higher risk of HIV infection (Lagarde et al., 2003; Lydié et al., 2004; Nunn et al., 1995). This study examined patterns of non-response in 17 recent DHS and AIS surveys and evaluated the potential effect of such bias on HIV seroprevalence estimates in 14 of these surveys.

Results indicate that HIV non-response rates for males were considerably higher than for females in all countries. The higher non-response rates for males mainly reflect more frequent and longer absence of men from the households. In 13 of the 15 countries with available data on reasons for not testing, the non-response rate resulting from absence was two to four times greater for men than for women. Non-response rates were higher among urban, more educated, and wealthier respondents. These patterns of non-response are typical of most household surveys in developing countries. However, there were no clear patterns in non-response rates by various risk and protective factors. Chronically ill adults were equally or more likely to participate in the surveys, suggesting that differential participation of chronically ill adults is unlikely to be a major source of bias.

The nonresponding males and females tend to have higher predicted HIV prevalence than those tested. In 7 of the 14 countries for males, and in 5 of the 14 countries for females, non-respondents have significantly higher predicted prevalence, but consistent with previous research, the overall effects of non-response on the observed national HIV prevalence estimates are small and insignificant in all 14 countries (Bignami Van-Assche et al., 2005; McNaghten et al., 2007; Mishra et al., 2006; Obare, 2005). The small effects of the non-response bias on the observed national estimates are mainly the result of a much smaller proportion of non-responders than those who were tested in the surveys. Although not statistically significant, the effects of non-response tend to be somewhat greater among lower-prevalence countries for both males and females.

The adjustments performed in this report only partially address non-response bias. The estimates are only adjusted to the extent that the sociodemographic and behavioral characteristics included in the analysis are correlated with the risk of HIV infection in each country. Moreover, the scope for adjustments was limited in countries with low prevalence (e.g., Cambodia and Ethiopia), given that these data sets had less power to find significant associations. Another limitation is that the adjustments for the not interviewed/not tested respondents (mostly absentees) are based on limited information available from the household questionnaire. Future surveys should attempt to collect additional information on this group (mostly absentees) to better assess potential bias resulting from their exclusion.

Our analysis is based on a de facto household-based sample of the national population. A de facto sample assumes that usual residents (de jure household members) who did not spend the previous night in their own household are, on average, interviewed in a household they may be visiting. A de facto sample maximizes participation rates and avoids potential double counting of respondents. However, HIV seroprevalence estimates based on de facto samples may be biased to the extent that some of the de jure household members who slept away may not be visiting another household and to the extent that such people have differential HIV prevalence.

Finally, our adjustments for non-response do not account for any bias caused by exclusion of non-household populations, such as those living on the street or in institutions (e.g., prisons, boarding schools, military barracks, refugee camps, and brothels). The survey-based estimates of HIV prevalence are likely to be underestimated to the extent that these non-household populations have higher prevalence, but given that the proportion of such non-household populations in the total population tends to be small, any effect of excluding institutional and homeless populations on the national estimates obtained from a household-based sample is likely to be small, except possibly in low-prevalence countries (Mishra et al., 2008).

In summary, the results of this study suggest that non-response in the surveys does not significantly bias national HIV seroprevalence estimates from population-based surveys. For non-response in the surveys to have any major effect on observed national HIV prevalence estimates (based on tested respondents), the non-response rate or the relative risk of HIV among non-respondents or both have to be substantial. The study concludes that population-based surveys provide reliable, nationally representative direct estimates of HIV seroprevalence in countries with generalized epidemics. HIV prevalence data from population-based surveys can be useful in understanding the magnitude and spread of the epidemics and in calibrating estimates from sentinel surveillance.

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Appendix

Appendix A: Burkina Faso

Table A1. HIV response rates by selected background characteristics and sex, Burkina Faso 2003

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15–19	995	85.7	1,059	90.3
20–24	642	84.4	829	91.4
25–29	485	83.3	697	92.4
30–34	420	88.1	566	92.8
35–39	398	85.7	564	93.4
40–44	317	87.1	458	94.5
45–49	262	89.7	402	94.5
50–54	268	83.6	n/a	n/a
55–59	197	87.8	n/a	n/a
Education				
No education	2,580	87.4	3,615	93.7
Primary/literate	748	86.2	573	89.2
Secondary +	656	79.0	383	83.6
Wealth status				
Lowest	612	90.0	757	94.3
Second	750	93.2	866	95.8
Middle	846	89.4	1,031	95.1
Fourth	635	87.4	761	93.7
Highest	1,141	75.1	1,160	85.0
Residence				
Urban	1,098	73.0	1,125	84.2
Rural	2,886	90.7	3,450	95.0
Region				
Ouagadougou	256	68.0	270	77.4
West	1,293	85.4	1,399	91.5
North	544	91.2	594	95.0
Central/South	1,029	85.7	1,265	93.3
East	862	88.4	1,047	94.6
Total	3,984	85.8	4,575	92.3

Table A2. Non-response rates by selected background characteristics and sex, Burkina Faso 2003

Characteristic	Male				Female			
	Non-response rate	Reasons for non response			Non-response rate	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age								
15-19	14.3	5.13	4.42	4.72	9.7	4.72	2.36	2.64
20-24	15.6	5.61	6.70	3.27	8.6	5.43	1.45	1.69
25-29	16.7	7.42	6.60	2.68	7.6	3.59	2.73	1.29
30-34	11.9	5.24	4.29	2.38	7.2	4.06	1.59	1.59
35-39	14.3	7.04	5.03	2.26	6.6	4.26	1.42	0.89
40-44	12.9	5.36	4.73	2.84	5.5	1.53	2.40	1.53
45-49	10.3	6.49	2.29	1.53	5.5	2.74	1.24	1.49
50-54	16.4	6.72	5.97	3.73	n/a	n/a	n/a	n/a
55-59	12.2	5.08	4.57	2.54	n/a	n/a	n/a	n/a
Education								
No education	12.6	4.57	4.73	3.29	6.3	2.74	1.85	1.69
Primary/literate	13.8	5.61	4.95	3.21	10.8	6.63	2.44	1.75
Secondary +	21.0	11.43	6.71	2.90	16.5	12.53	2.09	1.83
Wealth status								
Lowest	10.0	3.10	2.78	4.08	5.7	1.59	1.32	2.77
Second	6.8	2.40	2.80	1.60	4.2	1.15	1.62	1.39
Middle	10.6	3.55	4.37	2.72	5.0	1.75	2.23	0.97
Fourth	12.6	4.41	4.88	3.31	6.3	3.02	2.23	1.05
Highest	24.9	12.27	8.50	4.12	15.0	10.52	2.16	2.33
Residence								
Urban	27.1	13.02	9.56	4.46	15.8	11.11	2.31	2.40
Rural	9.3	3.19	3.40	2.74	5.0	1.74	1.83	1.48
Region								
Ouagadougou	32.0	16.41	7.03	8.59	22.6	13.33	2.96	6.30
West	14.6	6.26	5.57	2.78	8.5	4.65	2.36	1.50
North	8.8	2.39	2.57	3.86	5.1	2.19	1.35	1.52
Central/South	14.3	6.80	4.47	3.01	6.7	3.48	1.98	1.26
East	11.6	3.36	6.15	2.09	5.4	2.58	1.43	1.43
Total	14.2	5.90	5.10	3.21	7.7	4.04	1.95	1.70
Number	566	235	203	128	352	185	89	78

Table A3. Non-response rates by selected risk behaviors and other characteristics and sex, Burkina Faso 2003

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Marital Union								
Never in union	8.0	4.9	1.7	1.4	7.1	5.0	0.9	1.1
In monogamous union	6.9	4.8	1.3	0.7	6.3	4.7	0.8	0.8
In polygynous union	6.8	4.6	1.4	0.9	3.0	1.8	0.7	0.5
Widowed/divorced/separated	4.8	3.2	0.0	1.6	8.4	3.9	0.6	3.9
Child birth in the last 5 years								
No	n/a	n/a	n/a	n/a	6.8	4.8	0.7	1.3
Yes	n/a	n/a	n/a	n/a	4.8	3.3	0.8	0.8
Occupation								
Not working	7.8	4.6	1.7	1.5	10.3	8.5	0.4	1.4
Professional/services	15.1	11.2	2.1	1.8	10.0	7.2	1.5	1.4
Agriculture	4.4	2.7	1.0	0.6	2.5	1.3	0.6	0.5
Manual	14.9	8.9	4.0	2.0	9.1	7.0	0.0	2.2
Regular exposure to media sources per week								
None	4.8	3.1	1.3	0.5	3.3	2.2	0.4	0.7
One source	5.0	3.1	0.9	1.0	4.6	3.0	0.8	0.8
Two sources	10.9	6.8	2.5	1.6	10.1	7.3	1.6	1.1
All three sources	19.9	15.3	2.8	1.8	18.8	13.8	1.9	3.1
Ethnicity								
Mossi	8.9	5.6	1.9	1.4	5.4	3.6	0.8	1.0
Other	5.7	4.0	1.0	0.7	5.1	3.7	0.7	0.8
Religion								
Catholic/Protestant	7.8	5.9	1.0	0.9	5.5	4.0	0.4	1.1
Muslim	7.9	4.8	1.8	1.3	6.1	4.2	1.0	0.9
Other	4.3	2.9	1.1	0.4	1.9	0.8	0.5	0.6
Circumcision								
No	2.8	1.9	0.6	0.4	n/a	n/a	n/a	n/a
Yes	8.1	5.3	1.6	1.2	n/a	n/a	n/a	n/a
STI or STI symptom in the last 12 months								
No	7.3	4.8	1.5	1.0	5.1	3.6	0.7	0.9
Yes	6.2	3.7	0.0	2.5	8.8	5.5	2.8	0.6
Alcohol use								
Never	8.0	4.9	1.8	1.3	5.8	4.1	0.8	0.9
More than 3 months ago	7.0	4.3	1.5	1.2	6.3	4.4	1.3	0.5
In the last 3 months	7.5	5.5	1.3	0.7	4.0	2.6	0.6	0.9
Smokes cigarettes or uses tobacco								
No	n/a	n/a	n/a	n/a	5.4	3.8	0.7	0.9
Yes	n/a	n/a	n/a	n/a	3.9	2.3	1.0	0.7

(Cont'd)

Table A3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age at first sex								
Never had sex	6.3	4.2	1.2	0.9	5.7	4.0	0.5	1.2
<15	8.4	6.3	2.1	0.0	5.0	3.9	0.3	0.8
15-17	8.2	4.7	1.8	1.7	4.7	3.0	0.8	0.9
18-19	7.8	5.0	1.5	1.3	5.7	4.0	1.1	0.6
20+	7.3	5.0	1.5	0.8	7.7	6.2	0.3	1.2
Number of sex partners in last 12 months								
No sex in last 12 months	5.8	3.5	1.2	1.1	4.1	2.8	0.5	0.9
Had 1 sex partner	7.9	5.3	1.5	1.1	5.8	4.1	0.9	0.9
Had 2+ sex partners	9.2	6.4	1.9	1.0	11.4	6.8	2.3	2.3
Higher risk sex in the last 12 months								
No sex in last 12 months	5.8	3.5	1.2	1.1	4.1	2.8	0.5	0.9
Sex with spouse/cohabiting	7.4	5.3	1.3	0.9	5.3	3.7	0.8	0.8
Sex with other	9.8	6.1	2.3	1.4	11.0	7.4	1.7	2.0
Condom use at last sex in last 12 months								
No sex in last 12 m	5.8	3.5	1.2	1.1	4.1	2.8	0.5	0.9
Had sex and used condom	11.9	7.3	2.5	2.1	10.8	8.3	1.2	1.2
Did not use condom	6.8	4.9	1.3	0.7	5.5	3.7	0.9	0.9
Number of times slept away								
0	6.0	3.7	1.4	0.8	n/a	n/a	n/a	n/a
1-2	6.2	4.0	0.8	1.4	n/a	n/a	n/a	n/a
3-4	8.5	6.6	1.2	0.8	n/a	n/a	n/a	n/a
5+	17.1	11.7	3.4	2.0	n/a	n/a	n/a	n/a
Away from home								
Never	6.0	3.7	1.4	0.8	n/a	n/a	n/a	n/a
Less than 1 month	11.0	7.5	1.6	1.9	n/a	n/a	n/a	n/a
1+ month	7.2	4.9	1.6	0.8	n/a	n/a	n/a	n/a
Participates in 2+ major household decisions (women's empowerment)								
No	n/a	n/a	n/a	n/a	4.6	3.2	0.7	0.8
Yes	n/a	n/a	n/a	n/a	6.9	4.9	0.8	1.2
Number of years living in current residence								
<3 years	7.7	5.6	0.6	1.6	7.3	4.9	1.3	1.1
3-9 years	9.3	5.2	2.2	1.9	5.9	4.6	0.5	0.8
10+ years	7.0	4.7	1.5	0.9	4.8	3.2	0.7	0.9
Knowledge of ABC prevention methods								
0	0.0	0.0	0.0	0.0	3.6	2.2	0.7	0.8
1	7.3	4.7	1.3	1.3	4.6	3.5	0.6	0.5
2	6.8	4.3	1.5	1.1	6.9	4.8	0.9	1.2
3	8.3	5.7	1.5	1.1	n/a	n/a	n/a	n/a

(Cont'd)

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Attitude to PLHIV (scale)								
0	3.4	2.9	0.5	0.0	n/a	n/a	n/a	n/a
1	5.2	4.0	0.6	0.6	n/a	n/a	n/a	n/a
2	7.0	4.2	1.7	1.1	n/a	n/a	n/a	n/a
3	9.7	6.5	1.8	1.4	n/a	n/a	n/a	n/a
Number of injections by a health professional in the last 3 months								
0	n/a	n/a	n/a	n/a	4.9	3.3	0.7	0.9
1-3	n/a	n/a	n/a	n/a	9.0	6.6	1.5	1.0
4+	n/a	n/a	n/a	n/a	6.2	6.2	0.0	0.0
Previously tested								
Never tested	7.0	4.6	1.4	1.0	n/a	n/a	n/a	n/a
Tested, not in last 12m	14.1	8.2	2.2	3.7	n/a	n/a	n/a	n/a
Tested, in last 12 m	9.8	6.9	2.0	1.0	n/a	n/a	n/a	n/a
Total	7.3	4.8	1.5	1.1	5.3	3.6	0.8	0.9
Number	264	173	53	38	233	161	33	39

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table A4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Burkina Faso 2003

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.7	0.7	0.6	0.9	0.6	0.5	0.7	0.7
20-24	0.7	1.4	0.7	0.9	1.7	0.4	1.1	0.8
25-29	2.8	3.5	3.1	4.1	2.4	2.7	3.3	2.9
30-34	3.7	4.8	5.6	4.8	6.2	4.8	5.3	3.8
35-39	2.9	2.7	4.1	2.8	3.0	5.2	3.3	3.0
40-44	2.0	1.8	3.4	1.7	3.4	3.4	3.0	2.1
45-49	2.1	5.5	3.5	5.4	3.7	3.4	4.6	2.3
50-54	2.9	3.6	3.6	3.1	3.8	4.2	3.6	3.0
55-59	2.6	5.3	2.8	7.3	2.4	2.0	3.9	2.7
Education								
No education	1.8	2.3	2.1	2.2	2.4	1.8	2.2	1.8
Primary/literate	1.7	1.0	2.3	2.5	1.4	1.2	1.8	1.7
Secondary +	2.8	3.8	4.4	4.1	4.1	3.8	4.0	3.0
Wealth status								
Lowest	1.2	0.8	0.9	0.7	1.2	0.8	0.9	1.2
Second	2.8	2.5	1.8	2.3	1.6	2.6	2.1	2.8
Middle	1.4	0.7	1.2	0.6	1.2	1.3	1.1	1.4
Fourth	0.3	0.4	0.6	0.4	0.5	0.7	0.5	0.3
Highest	3.1	3.6	4.2	3.9	4.2	3.4	3.9	3.3
Residence								
Urban	3.6	3.5	4.6	3.9	4.3	3.6	4.0	3.7
Rural	1.4	1.0	0.9	0.9	0.9	0.9	0.9	1.3
Region								
Ouagadougou	4.5	4.0	5.6	4.7	5.6	3.8	4.7	4.5
West	2.1	2.2	2.2	2.3	2.5	1.7	2.2	2.1
North	0.6	0.4	0.5	0.6	0.4	0.5	0.5	0.6
Central/South	1.6	1.7	1.2	1.4	1.2	1.6	1.4	1.6
East	1.7	1.0	1.5	1.6	1.3	1.2	1.3	1.6
Total	1.9	2.7	2.5	2.9	2.5	2.1	2.6 *	2.0
Number	3,418	264	302	235	203	128	566	3,984

* Significant at 5%

Table A5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Burkina Faso 2003

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.9	1.1	0.6	1.0	1.2	0.6	0.9	0.9
20-24	1.8	2.8	2.4	3.0	1.8	2.6	2.7	1.9
25-29	2.5	6.2	3.3	5.8	3.7	6.0	5.1	2.7 *
30-34	2.4	6.8	4.8	7.6	4.0	5.7	6.3	2.8 *
35-39	3.5	5.5	4.2	6.0	3.5	4.2	5.1	3.7
40-44	0.7	3.0	1.1	2.5	1.0	4.5	2.4	0.8 *
45-49	1.1	1.8	1.4	2.2	1.1	0.8	1.7	1.2
Education								
No education	1.5	2.6	1.9	2.5	1.7	2.5	2.3	1.6 *
Primary/literate	3.4	5.0	6.0	5.9	4.3	3.7	5.2	3.6
Secondary +	2.3	4.2	3.0	4.6	3.1	3.0	3.9	2.6
Wealth status								
Lowest	0.9	0.6	1.0	0.8	1.6	0.6	0.8	0.9
Second	1.1	1.0	0.8	1.3	0.8	0.6	0.9	1.1
Middle	1.5	1.4	1.2	1.7	1.3	0.6	1.3	1.5
Fourth	1.7	2.1	2.1	2.1	2.7	0.9	2.1	1.7
Highest	3.4	4.8	4.6	4.9	3.8	5.2	4.8	3.6
Residence								
Urban	4.0	5.2	5.1	5.3	4.3	5.4	5.2	4.2
Rural	1.2	1.0	1.1	1.0	1.4	0.7	1.0	1.2
Region								
Ouagadougou	4.3	5.6	5.9	6.3	3.8	5.3	5.6	4.6
West	2.6	4.3	2.4	3.7	3.5	2.6	3.5	2.7
North	0.5	0.5	0.3	0.5	0.5	0.3	0.4	0.5
Central/South	1.6	1.4	1.4	1.8	1.2	1.1	1.4	1.6
East	0.9	0.6	0.8	0.6	1.2	0.5	0.7	0.9
Total	1.8	3.6	2.3	3.7	2.4	2.8	3.1	1.9 *
Number	4,223	233	119	185	89	78	352	4,575

* Significant at 5%

Appendix B: Cambodia

Table B1. HIV response rates by selected background characteristics and sex, Cambodia 2005-06

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	1,844	90.1	1,855	93.2
20-24	1,280	89.8	1,559	95.8
25-29	908	90.0	1,059	95.6
30-34	813	90.0	1,044	95.5
35-39	933	89.7	1,146	96.0
40-44	837	90.1	1,066	96.1
45-49	614	93.8	909	94.8
Education				
No education	803	86.9	1,991	94.9
Primary	3,588	91.0	4,684	95.9
Secondary +	2,826	90.7	1,962	93.6
Wealth status				
Lowest	1,311	90.9	1,646	96.5
Second	1,391	92.4	1,656	96.8
Middle	1,456	92.3	1,702	95.8
Fourth	1,438	90.3	1,612	95.4
Highest	1,633	86.3	2,022	91.9
Residence				
Urban	1,728	86.2	2,158	93.0
Rural	5,501	91.6	6,480	95.8
Region				
Banteay Mean Chey	328	85.4	421	93.1
Kampong Cham	351	92.3	428	92.5
Kampong Chhnang	358	95.5	410	98.5
Kampong Speu	387	93.5	468	97.0
Kampong Thom	401	86.3	484	95.0
Kandal	397	92.4	442	94.1
Kratie	347	91.1	442	98.4
Phnom Penh	457	85.1	560	91.4
Prey Veng	320	95.9	469	93.8
Pursat	355	89.6	405	95.1
Siem Reap	395	91.7	483	95.2
Svay Rieng	373	94.9	436	96.1
Takeo	414	97.6	446	98.2
Otdar Mean Chey	391	84.9	462	96.5
Battambang/Krong Pailin	399	92.7	546	97.3
Kampot/Krong Kep	356	90.7	434	92.6
Krong Preah Sihanouk/Kaoh Kong	377	80.1	427	92.3
Preah Vihear/Steung Treng	364	91.5	414	95.9
Mondol Kiri/Rattanak Kiri	459	86.3	461	94.6
Total	7,229	90.3	8,638	95.1

Table B2. Non-response rates by selected background characteristics and sex, Cambodia 2005-06

Characteristic	Male				Female			
	Non-response rate	Reasons for non response			Non-response rate	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age								
15-19	9.9	3.5	5.2	1.2	6.8	3.3	2.8	0.7
20-24	10.2	3.1	6.2	0.9	4.2	2.2	1.6	0.5
25-29	10.0	3.7	5.4	0.9	4.4	2.0	1.8	0.7
30-34	10.0	3.9	4.6	1.5	4.5	3.0	1.1	0.5
35-39	10.3	3.6	5.9	0.8	4.0	2.7	1.0	0.4
40-44	9.9	5.3	4.2	0.5	3.9	2.4	0.5	1.0
45-49	6.2	2.6	3.3	0.3	5.2	3.4	1.0	0.8
Education								
No education	13.1	2.4	7.2	3.5	5.1	2.5	1.2	1.4
Primary	9.0	3.2	4.9	0.9	4.1	2.2	1.5	0.5
Secondary +	9.3	4.6	4.5	0.3	6.4	4.3	1.9	0.3
Wealth status								
Lowest	9.2	2.1	6.3	0.8	3.5	1.5	1.3	0.7
Second	7.6	2.1	4.4	1.2	3.2	1.6	1.2	0.4
Middle	7.7	2.8	4.1	0.8	4.2	2.0	1.4	0.8
Fourth	9.7	4.1	4.7	0.9	4.7	2.5	1.5	0.6
Highest	13.7	6.7	6.1	0.9	8.1	5.4	2.1	0.5
Residence								
Urban	13.8	6.8	6.2	0.9	7.0	4.8	1.7	0.5
Rural	8.4	2.7	4.8	1.0	4.2	2.0	1.5	0.7
Region								
Banteay Mean Chey	14.6	6.4	6.7	1.5	6.9	1.9	3.3	1.7
Kampong Cham	7.7	2.9	3.1	1.7	7.5	3.5	2.3	1.6
Kampong Chhnang	4.5	1.1	2.2	1.1	1.5	0.7	0.0	0.7
Kampong Speu	6.5	3.1	3.1	0.3	3.0	1.7	1.3	0.0
Kampong Thom	13.7	3.7	9.2	0.8	5.0	2.5	1.9	0.6
Kandal	7.6	2.3	3.8	1.5	5.9	2.5	2.5	0.9
Kratie	8.9	1.2	6.9	0.9	1.6	0.7	0.7	0.2
Phnom Penh	14.9	10.3	4.4	0.2	8.6	7.0	1.6	0.0
Prey Veng	4.1	1.6	1.6	0.9	6.2	3.6	0.4	2.1
Pursat	10.4	9.3	0.3	0.9	4.9	4.4	0.3	0.3
Siem Reap	8.4	3.3	3.8	1.3	4.8	3.5	0.6	0.6
Svay Rieng	5.1	2.4	2.1	0.5	3.9	2.3	1.2	0.5
Takeo	2.4	1.5	0.0	1.0	1.8	1.1	0.5	0.2
Otdar Mean Chey	15.1	0.3	14.6	0.3	3.5	0.2	3.0	0.2
Battambang/Krong Pailin	7.3	2.3	4.5	0.5	2.8	0.7	1.7	0.4
Kampot/Krong Kep	9.3	4.8	4.2	0.3	7.4	4.2	2.3	0.9
Krong Preah Sihanouk /Kaoh Kong	19.9	4.2	14.6	1.1	7.7	5.2	2.1	0.5
Preah Vihear/Steung Treng	8.5	4.4	1.9	2.2	4.1	3.1	0.7	0.2
Mondol Kiri/Rattanak Kiri	13.7	3.9	8.7	1.1	5.4	2.6	2.4	0.4
Total	9.7	3.7	5.1	0.9	4.9	2.7	1.5	0.6
Number	702	265	370	67	421	236	131	54

Table B3. Non-response rates by selected risk behaviors and other characteristics and sex, Cambodia 2005-06

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Marital Union								
Never in union	3.5	3.0	0.4	0.2	3.0	2.8	0.2	0.0
Currently in union	3.1	2.7	0.3	0.1	2.4	2.2	0.1	0.1
Widowed/divorced/separated	2.0	2.0	0.0	0.0	1.7	1.7	0.0	0.0
Child birth in the last 5 years								
No	n/a	n/a	n/a	n/a	2.7	2.5	0.1	0.1
Yes	n/a	n/a	n/a	n/a	2.1	2.0	0.1	0.0
Occupation								
Not working	3.8	3.3	0.1	0.4	3.3	3.0	0.1	0.1
Household/domestic	n/a	n/a	n/a	n/a	3.7	3.3	0.1	0.3
Professional/services	4.7	4.2	0.6	0.0	3.8	3.5	0.2	0.1
Agriculture	2.2	1.8	0.3	0.1	1.6	1.5	0.1	0.1
Manual	4.8	4.6	0.2	0.0	1.2	1.2	0.0	0.0
Regular exposure to media sources per week								
None	2.8	2.2	0.6	0.1	2.3	2.1	0.1	0.1
One source	2.8	2.5	0.2	0.1	2.0	2.0	0.0	0.0
Two sources	3.4	2.9	0.3	0.2	2.7	2.4	0.2	0.2
All three sources	5.0	5.0	0.0	0.0	4.3	4.0	0.3	0.0
Religion								
Buddhist	3.2	2.7	0.3	0.1	2.5	2.3	0.1	0.1
Moslem/Christian/Other	4.4	3.9	0.5	0.0	3.2	3.0	0.0	0.2
Circumcision								
No	3.2	2.8	0.3	0.1	n/a	n/a	n/a	n/a
Yes	6.3	5.6	0.7	0.0	n/a	n/a	n/a	n/a
STI or STI symptom in the last 12 months								
No	3.2	2.8	0.3	0.1	2.6	2.4	0.1	0.1
Yes	4.6	3.5	1.2	0.0	1.4	1.2	0.0	0.2
Smokes cigarettes or uses tobacco								
No	n/a	n/a	n/a	n/a	2.6	2.4	0.1	0.1
Smoke/chew tobacco	n/a	n/a	n/a	n/a	1.9	1.7	0.0	0.3
Age at first sex								
Never had sex	3.1	2.6	0.3	0.2	3.0	2.8	0.2	0.0
<15	4.4	4.4	0.0	0.0	3.6	3.6	0.0	0.0
15-17	2.2	1.8	0.4	0.0	1.9	1.8	0.1	0.1
18-19	2.7	2.4	0.3	0.1	2.0	1.8	0.1	0.1
20+	3.7	3.3	0.3	0.1	2.6	2.4	0.1	0.1

(Cont'd)

Table B3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Number of sex partners in life time								
Never had sex	3.1	2.6	0.3	0.2	3.0	2.8	0.2	0.0
Had 1 partner	2.8	2.4	0.3	0.1	2.4	2.1	0.1	0.1
Had 2 sex partners	2.6	2.2	0.2	0.2	1.5	1.5	0.0	0.0
Had 3+ sex partners	4.5	4.1	0.4	0.0	2.6	2.6	0.0	0.0
Number of sex partners in last 12 months								
No sex in last 12 months	3.1	2.6	0.3	0.2	2.9	2.7	0.2	0.1
Had 1 partner	3.2	2.8	0.3	0.1	2.2	2.0	0.1	0.1
Had 2+ sex partners	5.0	4.4	0.6	0.0	0.0	0.0	0.0	0.0
Higher risk sex in the last 12 months								
No sex in last 12 months	3.1	2.6	0.3	0.2	2.9	2.7	0.2	0.1
Sex with spouse/cohabiting	3.0	2.7	0.3	0.1	2.2	2.0	0.1	0.1
Sex with other	5.5	4.9	0.4	0.2	5.4	5.4	0.0	0.0
Condom use at last sex in last 12 months								
No sex in last 12 months	3.1	2.6	0.3	0.2	2.9	2.7	0.2	0.1
Had sex and used condom	5.8	5.4	0.2	0.2	4.9	4.2	0.0	0.7
Did not use condom	3.0	2.7	0.3	0.1	2.1	2.0	0.1	0.1
Paid sex in last 12 months								
Never had sex	3.1	2.6	0.3	0.2	n/a	n/a	n/a	n/a
No sex in last 12 months	3.2	2.8	0.3	0.1	n/a	n/a	n/a	n/a
Paid sex in last 12 months	13.3	13.3	0.0	0.0	n/a	n/a	n/a	n/a
Number of times slept away								
0	3.5	3.1	0.3	0.1	n/a	n/a	n/a	n/a
1-2	3.1	2.6	0.4	0.1	n/a	n/a	n/a	n/a
3-4	1.9	1.5	0.1	0.3	n/a	n/a	n/a	n/a
5+	3.3	3.0	0.1	0.1	n/a	n/a	n/a	n/a
Away from home								
Never	3.5	3.1	0.3	0.1	n/a	n/a	n/a	n/a
Less than 1 month	3.0	2.6	0.3	0.2	n/a	n/a	n/a	n/a
1+ month	2.7	2.3	0.4	0.0	n/a	n/a	n/a	n/a
Number of years in current residence								
<3	5.6	5.2	0.3	0.2	2.8	2.6	0.1	0.1
3-9	3.5	2.7	0.7	0.1	2.9	2.8	0.1	0.1
10+	2.8	2.5	0.2	0.1	2.4	2.2	0.1	0.1
Knowledge of ABC prevention methods								
0	3.7	3.1	0.6	0.0	3.4	3.2	0.2	0.0
1	6.7	5.7	1.0	0.0	1.9	1.7	0.0	0.2
2	3.1	2.4	0.2	0.5	3.5	3.2	0.2	0.1
3	3.1	2.8	0.3	0.1	2.3	2.1	0.1	0.1

(Cont'd)

Table B3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Attitude to PLHIV (scale)								
Lowest	4.4	3.3	0.7	0.4	3.3	3.3	0.0	0.0
Lower	4.1	3.5	0.6	0.0	2.8	2.7	0.1	0.0
Middle	3.7	3.1	0.4	0.2	2.1	2.0	0.0	0.1
Higher	3.1	2.8	0.2	0.1	3.0	2.6	0.2	0.1
Highest	2.6	2.3	0.2	0.1	2.1	1.9	0.1	0.1
Ability to negotiate safer sex								
0	4.4	2.2	2.2	0.0	n/a	n/a	n/a	n/a
1	4.4	3.7	0.7	0.0	n/a	n/a	n/a	n/a
2	3.2	2.8	0.3	0.1	n/a	n/a	n/a	n/a
Number of injections in the last 12 months: professionals								
0	3.4	3.0	0.3	0.1	2.7	2.5	0.1	0.1
1-3	2.4	1.9	0.2	0.3	1.9	1.8	0.0	0.1
4+	3.4	3.0	0.2	0.2	2.5	2.1	0.2	0.2
Alcohol use during sex								
No sex in last 12 m	3.1	2.6	0.3	0.2	2.9	2.7	0.2	0.1
Not use before last sex	3.2	2.9	0.3	0.1	2.3	2.1	0.1	0.1
Used (either/both)	3.9	3.4	0.4	0.1	1.1	1.1	0.0	0.0
Previously tested								
Never tested	2.8	2.4	0.3	0.1	2.4	2.2	0.1	0.1
Tested, not in last 12m	5.4	5.1	0.3	0.0	2.7	2.5	0.0	0.2
Tested, in last 12 m	6.3	5.4	0.6	0.3	5.4	5.0	0.0	0.4
Total	3.2	2.81	0.3	0.12	2.5	2.31	0.11	0.08
Number	217	189	20	8	210	194	9	7

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table B4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Cambodia 2005-06

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1
20-24	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2
25-29	0.6	1.1	0.9	0.7	1.4	0.4	1.0	0.6
30-34	1.2	2.8	1.5	2.7	1.7	0.8	1.9	1.3
35-39	1.3	4.4	1.7	3.7	1.5	1.2	2.4	1.4
40-44	0.7	0.2	1.0	0.4	1.1	0.6	0.7	0.7
45-49	1.3	1.4	2.0	2.2	1.9	0.2	1.8	1.3
Education								
No education	0.3	0.1	0.3	0.1	0.2	0.3	0.2	0.3
Primary	0.5	0.3	0.5	0.4	0.4	0.4	0.4	0.5
Secondary +	0.8	1.7	1.5	1.8	1.5	0.6	1.6	0.9 *
Wealth status								
Lowest	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
Second	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Middle	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2
Fourth	0.7	0.2	0.6	0.4	0.6	0.6	0.5	0.7
Highest	1.5	2.1	2.1	2.2	2.2	0.9	2.1	1.6
Residence								
Urban	1.6	2.0	1.9	2.1	1.8	0.8	1.9	1.6
Rural	0.4	0.5	0.5	0.6	0.5	0.3	0.5	0.4
Region								
Phnom Penh	2.0	1.0	2.6	1.5	2.7	0.2	1.8	2.0
Plain	0.4	0.1	0.3	0.2	0.3	0.2	0.3	0.4
Great Lake	0.6	1.2	0.7	1.2	0.7	0.7	0.9	0.6
Coastal	0.7	2.8	0.9	2.6	1.2	0.4	1.7	0.9
Plateau/Mountain	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Total	0.6	1.1	0.8	1.1	0.8	0.4	0.9	0.6
Number	6,527	217	485	265	370	67	702	7,229

* Significant at 5%

Table B5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Cambodia 2005-06

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-24	0.6	0.5	0.6	0.6	0.5	0.7	0.6	0.6
25-29	1.3	6.1	1.3	5.8	1.0	1.1	2.9	1.4
30-34	0.8	1.2	1.0	1.3	0.8	0.6	1.1	0.8
35-39	0.7	0.8	0.6	0.8	0.7	0.7	0.7	0.7
40-44	0.3	0.1	0.4	0.2	0.7	0.3	0.2	0.3
45-49	1.0	4.4	1.4	4.2	1.8	1.1	3.2	1.2
Education								
No education	0.8	3.7	0.6	3.3	0.7	0.6	1.9	0.8
Primary	0.6	0.5	0.6	0.6	0.5	0.4	0.5	0.6
Secondary +	0.5	1.7	0.7	1.5	0.5	0.9	1.2	0.5
Wealth status								
Lowest	0.5	0.2	0.5	0.2	0.5	0.6	0.4	0.5
Second	0.4	0.7	0.3	0.7	0.3	0.4	0.5	0.4
Middle	0.4	0.7	0.3	0.6	0.3	0.3	0.4	0.4
Fourth	0.8	3.3	0.6	3.3	0.5	1.0	1.9	0.8
Highest	0.9	1.4	0.9	1.4	0.8	0.5	1.2	1.0
Residence								
Urban	1.3	3.8	1.2	3.1	1.2	1.1	2.6	1.4
Rural	0.5	0.3	0.4	0.3	0.4	0.5	0.4	0.4
Region								
Phnom Penh	1.5	4.9	1.5	4.0	1.3	-	3.5	1.7
Plain	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4
Great Lake	0.6	0.6	0.5	0.6	0.4	0.6	0.5	0.6
Coastal	1.1	0.6	0.9	0.6	1.0	0.8	0.7	1.1
Plateau/Mountain	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2
Total	0.6	1.5	0.6	1.4	0.5	0.5	1.0	0.6
Number	8,217	210	211	236	131	54	421	8,638

Appendix C: Cameroon

Table C1. HIV response rates by selected background characteristics and sex, Cameroon 2004

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	1,282	93.2	1,399	93.0
20-24	1,017	88.5	1,197	91.1
25-29	854	89.1	945	91.6
30-34	668	89.1	746	92.6
35-39	534	86.0	580	91.4
40-44	444	87.2	460	92.2
45-49	386	91.5	376	93.6
50-54	270	92.2	n/a	n/a
55-59	221	90.1	n/a	n/a
Education				
No education	577	90.1	1,093	95.4
Primary	2,135	91.5	2,316	93.2
Secondary +	2,959	88.7	2,291	89.6
Wealth quintile				
Lowest	739	94.6	926	96.7
Second	970	94.9	994	95.4
Middle	1,225	93.7	1,236	95.1
Fourth	1,303	88.4	1,222	90.1
Highest	1,439	81.9	1,325	85.7
Residence				
Urban	2,930	85.3	2,867	88.4
Rural	2,746	94.7	2,836	95.9
Region				
Adamaoua	432	94.0	415	95.4
Central	467	90.4	504	94.8
Douala	593	84.0	545	90.3
East	415	89.6	404	91.1
Extreme North	441	91.4	531	94.0
Littoral	431	90.7	437	95.2
North	473	92.4	466	94.6
Northwest	460	94.6	462	92.9
West	457	93.0	568	92.3
South	444	94.4	410	96.8
Southwest	482	94.4	417	94.7
Yaounde	581	74.9	544	77.0
Total	5,676	89.8	5,703	92.1

Table C2. Non-response rates by selected background characteristics and sex, Cameroon 2004

Characteristic	Male				Female			
	Non-response rate	Reasons for non-response			Non-response rate	Reasons for non-response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age								
15-19	6.8	3.7	2.3	0.9	7.0	4.7	1.4	0.9
20-24	11.5	6.2	3.8	1.5	8.9	5.4	1.6	1.9
25-29	10.9	5.2	4.1	1.6	8.4	5.6	1.8	1.0
30-34	10.9	5.2	4.3	1.4	7.4	5.4	0.9	1.1
35-39	14.0	7.1	4.9	2.1	8.6	5.5	1.7	1.4
40-44	12.8	6.8	4.3	1.8	7.8	4.6	2.0	1.3
45-49	8.6	4.2	3.1	1.3	6.4	3.5	1.3	1.6
50-54	7.8	4.1	1.9	1.9	n/a	n/a	n/a	n/a
55-59	10.0	5.4	1.8	2.7	n/a	n/a	n/a	n/a
Education								
No education	9.9	4.9	2.6	2.4	4.6	2.3	0.7	1.6
Primary	8.5	3.5	3.6	1.5	6.8	4.5	1.4	0.9
Secondary +	11.3	6.5	3.6	1.2	10.4	6.9	1.9	1.5
Wealth quintile								
Lowest	5.4	1.1	2.6	1.8	3.3	1.9	0.7	0.8
Second	5.2	2.0	2.4	0.8	4.6	2.0	1.5	1.1
Middle	6.3	2.6	2.6	1.1	4.9	3.2	1.1	0.7
Fourth	11.6	5.8	4.4	1.5	9.9	5.6	2.3	2.1
Highest	18.1	11.3	4.7	2.2	14.3	10.9	1.8	1.6
Residence								
Urban	14.7	8.4	4.5	1.8	11.6	8.0	1.9	1.7
Rural	5.4	1.8	2.4	1.1	4.1	2.1	1.1	0.9
Region								
Adamaoua	6.0	2.6	1.2	2.3	4.6	3.1	0.5	1.0
Central	9.6	3.0	4.7	1.9	5.2	2.0	2.4	0.8
Douala	16.0	9.8	4.7	1.5	9.7	6.8	1.1	1.8
East	10.4	6.0	1.9	2.4	8.9	4.7	1.5	2.7
Extreme North	8.6	3.2	3.4	2.0	6.0	3.8	1.7	0.6
Littoral	9.3	3.7	4.6	0.9	4.8	2.8	1.1	0.9
North	7.6	4.4	3.0	0.2	5.4	3.4	0.6	1.3
Northwest	5.4	3.5	1.1	0.9	7.1	6.1	0.9	0.2
West	7.0	4.2	1.8	1.1	7.8	5.3	0.9	1.6
South	5.6	2.9	2.5	0.2	3.2	2.2	0.7	0.2
Southwest	5.6	1.9	2.5	1.2	5.3	3.4	1.7	0.2
Yaounde	25.1	13.8	8.6	2.8	23.0	15.1	4.4	3.5
Total	10.2	5.2	3.5	1.5	7.9	5.1	1.5	1.3
Number	578	296	198	84	449	290	86	73

Table C3. Non-response rates by selected risk behaviors and other characteristics and sex, Cameroon 2004

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Marital Union								
Never in union	3.9	3.3	0.3	0.2	4.6	3.9	0.7	0.1
In monogamous union	5.0	4.7	0.3	0.1	4.4	3.9	0.3	0.2
In polygynous union	3.9	3.6	0.3	0.0	1.5	1.2	0.0	0.3
Widowed/divorced/separated	4.8	4.1	0.8	0.0	6.0	5.8	0.2	0.0
Child birth in the last 5 years								
No	n/a	n/a	n/a	n/a	5.6	4.7	0.7	0.2
Yes	n/a	n/a	n/a	n/a	3.9	3.5	0.2	0.2
Occupation								
Not working	4.3	3.7	0.3	0.3	5.0	4.5	0.4	0.2
Professional/services	7.0	6.6	0.4	0.0	10.8	9.2	0.4	1.2
Agriculture	1.8	1.5	0.2	0.1	2.2	2.0	0.2	0.1
Manual	6.5	6.0	0.5	0.1	5.2	4.7	0.4	0.2
Regular exposure to media sources per week								
None	2.5	2.4	0.1	0.0	2.5	2.3	0.2	0.0
One source	3.7	3.2	0.4	0.2	4.8	4.2	0.4	0.2
Two sources	5.3	4.8	0.3	0.2	6.8	5.9	0.6	0.3
All three sources	6.5	5.9	0.6	0.1	6.4	5.5	0.4	0.4
Ethnicity								
Arabe-Choja/Peulh/Maoussa /Kanuri	5.6	4.7	0.6	0.3	2.7	1.7	0.5	0.5
Biu-Mandara	5.0	4.4	0.4	0.2	3.9	3.0	0.5	0.5
Adamaoua-Oubangui	3.0	2.5	0.5	0.0	3.4	3.2	0.2	0.0
Bantoïde Sud-ouest	1.8	1.8	0.0	0.0	3.6	2.2	1.4	0.0
Grassfields	3.7	3.2	0.5	0.0	5.1	4.7	0.4	0.0
Bamilike/Bamoun	6.1	5.6	0.2	0.4	5.7	5.4	0.2	0.1
Côtier/Ngoe/Oroko	3.7	3.3	0.4	0.0	1.5	1.5	0.0	0.0
Beti/Bassa/Mbam	4.1	3.8	0.2	0.1	4.7	4.1	0.3	0.3
Kako/Meka/Pygmées	2.8	2.8	0.0	0.0	3.7	3.7	0.0	0.0
Étranger	5.3	4.8	0.5	0.0	4.4	3.5	1.0	0.0
Religion								
Catholic	4.4	4.2	0.2	0.1	5.1	4.7	0.2	0.2
Protestant	4.0	3.7	0.2	0.1	3.4	3.1	0.3	0.1
Muslim	4.6	3.5	0.8	0.2	3.9	2.9	0.6	0.4
Other/No religion	6.0	5.4	0.3	0.3	5.9	5.1	0.8	0.0
Circumcision								
No	4.8	4.4	0.4	0.0	n/a	n/a	n/a	n/a
Yes	4.5	4.0	0.3	0.1	n/a	n/a	n/a	n/a
STI or STI symptom in the last 12 months								
No	4.4	4.0	0.3	0.1	4.4	3.9	0.4	0.2
Yes	4.6	3.8	0.5	0.3	4.2	3.9	0.0	0.3

(Cont'd)

Table C3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Smokes cigarettes or uses tobacco								
No	n/a	n/a	n/a	n/a	4.4	3.9	0.3	0.2
Yes	n/a	n/a	n/a	n/a	2.8	2.8	0.0	0.0
Age at first sex								
Never had sex	4.1	3.9	0.1	0.1	5.7	5.0	0.6	0.0
<15	3.7	3.2	0.6	0.0	3.5	2.9	0.3	0.2
15-17	4.0	3.5	0.4	0.1	4.0	3.5	0.4	0.2
18-19	4.7	4.5	0.0	0.2	5.9	5.5	0.1	0.3
20+	5.4	4.7	0.5	0.2	4.2	4.2	0.0	0.0
Number of lifetime sex partners								
0	4.1	3.9	0.1	0.1	5.7	5.0	0.6	0.0
1	5.5	5.2	0.3	0.0	3.9	3.6	0.3	0.1
2	5.1	4.6	0.5	0.0	3.6	3.2	0.3	0.1
3+	4.3	3.8	0.4	0.2	4.7	4.1	0.3	0.3
Number of sex partners in last 12 months								
No sex in last 12 m	4.6	4.1	0.3	0.2	5.3	4.9	0.4	0.0
Had 1 sex partner	4.5	4.0	0.4	0.2	4.2	3.6	0.4	0.2
Had 2+ sex partners	4.2	3.9	0.3	0.1	3.4	3.4	0.0	0.0
Higher risk sex in the last 12 months								
No sex in last 12 m	4.6	4.1	0.3	0.2	5.3	4.9	0.4	0.0
Sex with spouse/cohabiting	5.0	4.6	0.2	0.1	4.2	3.7	0.2	0.3
Sex with other	4.0	3.5	0.4	0.1	4.1	3.4	0.6	0.1
Condom use at last sex in last 12 months								
No sex in last 12 m	4.6	4.1	0.3	0.2	5.3	4.9	0.4	0.0
Had sex and used condom	4.9	4.4	0.3	0.3	5.7	4.9	0.8	0.0
Did not use condom	4.2	3.8	0.4	0.1	3.8	3.3	0.2	0.2
Paid for sex								
No sex	4.7	4.3	0.3	0.1	n/a	n/a	n/a	n/a
Never paid	4.3	3.9	0.3	0.1	n/a	n/a	n/a	n/a
Yes	4.4	2.5	1.2	0.6	n/a	n/a	n/a	n/a
Participates in 2+ major household decisions (women's empowerment)								
No	n/a	n/a	n/a	n/a	3.7	3.1	0.5	0.1
Yes	n/a	n/a	n/a	n/a	5.2	4.9	0.1	0.2
Number of years living in current residence								
<3 years	4.5	4.2	0.3	0.0	5.0	4.4	0.3	0.3
3-9 years	5.0	4.4	0.3	0.2	5.1	4.7	0.3	0.2
10+ years	4.3	3.8	0.3	0.1	3.9	3.4	0.4	0.1

(Cont'd)

Table C3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Knowledge of ABC prevention methods								
0	8.4	8.4	0.0	0.0	3.0	3.0	0.0	0.0
1	5.7	5.2	0.3	0.3	3.6	3.1	0.5	0.0
2	5.1	4.8	0.3	0.1	4.8	4.1	0.5	0.1
3	3.9	3.5	0.4	0.1	4.6	4.0	0.3	0.2
Attitude to PLHIV (scale)								
Lowest	3.8	3.3	0.5	0.0	3.7	2.9	0.8	0.0
Lower	3.1	2.7	0.3	0.1	2.9	2.6	0.1	0.1
Middle	4.0	3.5	0.3	0.1	4.2	3.8	0.2	0.2
Higher	5.6	5.1	0.4	0.1	6.0	5.2	0.6	0.3
Highest	4.8	4.4	0.3	0.1	5.2	5.0	0.2	0.0
Ability to negotiate safer sex								
0	n/a	n/a	n/a	n/a	4.8	4.2	0.6	0.0
1	n/a	n/a	n/a	n/a	3.5	3.2	0.2	0.1
2	n/a	n/a	n/a	n/a	4.5	4.0	0.3	0.2
Number of injections in the last 3 months								
0	4.2	3.7	0.3	0.1	n/a	n/a	n/a	n/a
1-3	5.7	5.4	0.3	0.0	n/a	n/a	n/a	n/a
4+	7.1	6.3	0.4	0.4	n/a	n/a	n/a	n/a
Alcohol use at last sex								
No sex in last 12 months	4.6	4.1	0.3	0.2	5.3	4.9	0.4	0.0
Not use before last sex	4.5	3.9	0.4	0.2	4.1	3.6	0.3	0.2
Either used	5.0	4.8	0.1	0.0	3.9	3.6	0.2	0.2
Both used	2.7	2.7	0.0	0.0	5.2	3.9	0.4	0.9
Previously tested								
Never tested	3.7	3.3	0.3	0.1	3.7	3.2	0.4	0.2
Tested, not in last 12months	9.7	9.3	0.5	0.0	5.9	5.9	0.0	0.0
Tested, in last 12 months	7.1	5.9	1.0	0.3	9.3	8.6	0.7	0.0
Total	4.5	4.0	0.3	0.1	4.4	3.9	0.3	0.2
Number	236	212	17	7	236	209	18	9

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table C4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Cameroon 2004

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.6	0.6	0.6	0.7	0.6	0.5	0.6	0.6
20-24	2.5	2.0	2.7	2.2	2.6	2.5	2.4	2.5
25-29	5.1	4.9	6.0	5.1	5.7	6.7	5.5	5.1
30-34	8.3	10.7	8.3	10.3	9.2	6.7	9.4	8.4
35-39	8.6	14.0	9.0	12.8	8.3	8.2	10.6	8.8
40-44	5.6	5.9	6.4	6.9	5.1	6.4	6.2	5.7
45-49	3.8	4.9	4.5	4.9	4.4	4.9	4.7	3.9
50-54	2.5	2.5	3.5	2.7	4.1	3.1	3.1	2.5
55-59	1.0	0.5	1.0	0.6	1.3	0.7	0.7	1.0
Education								
No education	2.1	3.7	2.7	3.6	2.7	2.9	3.2	2.2
Primary	4.1	5.7	5.4	6.3	4.7	5.4	5.5 *	4.2
Secondary +	4.2	5.2	5.4	5.2	5.6	5.1	5.3 *	4.3
Wealth quintile								
Lowest	1.2	1.3	1.3	1.0	1.3	1.5	1.3	1.2
Second	2.2	3.7	3.1	3.3	3.6	3.0	3.3	2.2
Middle	4.4	5.3	4.5	5.8	3.7	5.1	4.8	4.4
Fourth	5.1	4.4	5.6	4.9	4.8	6.9	5.1	5.1
Highest	5.2	6.0	6.2	5.8	7.1	5.2	6.1	5.3
Residence								
Urban	4.7	5.4	5.9	5.6	5.8	5.8	5.7	4.8
Rural	2.8	3.8	2.8	3.7	2.9	2.8	3.1	2.8
Region								
Adamaoua	3.9	3.2	3.7	4.2	1.7	4.2	3.7	3.9
Central	2.1	2.4	2.6	2.8	2.6	2.1	2.6	2.2
Douala	3.6	4.6	4.2	4.8	3.5	4.0	4.3	3.7
East	7.5	10.9	6.7	10.4	9.8	3.2	8.6	7.6
Extreme North	1.5	4.0	2.7	4.6	2.2	2.9	3.2	1.6
Littoral	4.5	6.9	6.7	6.9	6.4	8.9	6.8	4.7
North	1.9	5.2	2.7	4.8	3.6	0.6	4.3 *	2.1
Northwest	4.9	6.2	9.2	7.3	8.0	8.3	7.6	5.1
West	4.6	5.3	7.5	4.7	7.3	9.8	6.2	4.7
South	4.4	6.4	5.2	6.3	5.6	0.9	5.8	4.5
Southwest	4.8	7.6	5.8	7.0	5.6	6.0	6.1	4.9
Yaounde	5.7	4.6	6.6	4.9	6.8	6.0	5.7	5.7
Total	3.9	5.2	5.1	5.4	5.0	3.7	5.1 *	4.0
Number	5,098	236	342	296	198	84	578	5,676

* Significant at 5%

Table C5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Cameroon 2004

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	2.2	2.9	2.3	2.8	2.4	2.3	2.7	2.2
20-24	7.9	9.3	8.4	8.8	9.7	8.4	8.9	8.0
25-29	10.3	13.3	12.5	13.4	13.1	9.9	13.0	10.5
30-34	9.4	15.8	11.1	14.0	15.4	9.6	13.6	9.8
35-39	7.8	8.5	10.1	8.2	12.1	10.3	9.3	7.9
40-44	6.0	3.9	7.7	5.7	7.7	4.3	5.9	6.0
45-49	5.5	8.4	5.5	7.3	6.0	4.5	6.3	5.6
Education								
No education	3.4	3.3	4.6	3.8	3.4	4.5	4.0	3.4
Primary	7.2	8.1	7.8	8.6	6.8	6.1	8.0	7.3
Secondary +	8.2	10.2	9.3	9.5	11.8	8.9	9.8	8.3
Wealth quintile								
Lowest	3.1	3.6	3.7	4.5	0.9	4.0	3.6	3.1
Second	4.1	2.3	3.9	2.8	2.5	4.7	3.2	4.0
Middle	8.1	7.7	7.0	8.0	7.4	3.8	7.3	8.1
Fourth	9.4	12.1	10.6	11.4	13.2	9.1	11.4	9.6
Highest	8.0	9.0	8.6	8.7	10.4	8.0	8.8	8.1
Residence								
Urban	8.4	10.0	9.4	9.6	11.4	8.4	9.7	8.5
Rural	4.8	3.5	5.1	4.6	3.9	4.3	4.3	4.7
Region								
Adamaoua	9.8	7.1	12.9	8.7	17.3	11.6	10.2	9.9
Central	6.8	7.4	6.9	7.1	6.5	8.2	7.1	6.8
Douala	5.5	4.8	6.3	5.5	4.5	6.9	5.7	5.5
East	9.4	8.5	8.9	9.3	8.6	7.7	8.7	9.4
Extreme North	2.2	2.1	2.7	3.2	0.9	1.1	2.4	2.2
Littoral	6.4	5.0	7.4	5.9	8.8	4.7	6.4	6.4
North	1.7	2.3	2.3	1.9	4.2	2.5	2.3	1.8
Northwest	11.9	16.9	14.4	17.0	13.7	8.7	16.4	12.2
West	4.3	5.7	4.5	5.9	3.9	3.7	5.2	4.4
South	8.4	7.4	10.9	8.7	10.3	n/a	9.0	8.4
Southwest	11.0	19.7	12.6	15.2	19.0	11.3	16.5	11.3
Yaounde	10.7	9.9	11.5	10.1	12.5	11.1	10.7	10.7
Total	6.8	8.7	8.2	8.7	8.9	7.1	8.5	6.9
Number	5,254	236	213	290	86	73	449	5,703

* Significant at 5%

Appendix D: Cote d'Ivoire

Table D1. HIV response rates by selected background characteristics and sex, Cote d'Ivoire 2005

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	1,120	76.5	1,349	79.8
20-24	1,001	78.0	1,185	78.8
25-29	899	75.3	996	80.4
30-34	733	74.8	737	75.2
35-39	565	70.8	608	78.0
40-44	443	74.7	494	77.1
45-49	387	79.3	403	79.7
Education				
No education	2,157	76.5	3,553	80.3
Primary	1,249	77.7	1,320	78.6
Secondary +	1,738	73.6	894	72.6
Wealth status				
Lowest	1,024	83.6	1,186	85.3
Second	1,160	82.2	1,236	81.6
Middle	1,005	77.2	1,119	79.4
Fourth	947	68.7	1,083	74.7
Highest	1,012	65.6	1,148	71.8
Residence				
Urban	2,235	65.7	2,662	74.1
Rural	2,913	83.5	3,110	82.6
Region				
Centre	443	63.4	580	74.8
Centre-Est	416	68.3	460	70.0
Centre-Nord	413	85.5	461	89.8
Centre-Ouest	420	58.8	490	63.5
Nord	504	94.1	607	95.9
Nord-Est	427	80.1	512	82.2
Nord-Ouest	507	97.2	568	95.6
Ouest	451	85.8	513	89.9
Sud	494	64.0	543	65.4
Sud-Ouest	478	81.4	401	78.3
Ville d'Abidjan	595	56.3	637	60.3
Total	5,148	75.8	5,772	78.7

Table D2. Non-response rates by selected background characteristics and sex, Cote d'Ivoire 2005

Characteristic	Male				Female			
	Non-response rate	Reasons for non response			Non-response rate	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age								
15-19	23.5	13.1	8.9	1.4	20.2	13.2	5.2	1.9
20-24	22.0	11.6	8.9	1.5	21.2	14.7	5.2	1.3
25-29	24.7	12.7	10.9	1.1	19.6	13.6	4.7	1.3
30-34	25.2	15.4	9.1	0.7	24.8	17.2	5.8	1.8
35-39	29.2	17.5	10.6	1.1	22.0	14.6	5.4	2.0
40-44	25.3	15.6	9.3	0.5	22.9	15.2	5.3	2.4
45-49	20.7	14.5	5.2	1.0	20.4	14.9	4.5	1.0
Education								
No education	23.5	13.7	8.3	1.5	19.7	13.5	4.4	1.8
Primary	22.3	11.3	9.6	1.4	21.4	14.2	5.4	1.7
Secondary +	26.4	16.0	10.0	0.5	27.4	18.8	7.8	0.8
Wealth status								
Lowest	16.4	9.5	5.8	1.2	14.7	9.9	3.0	1.9
Second	17.8	10.3	6.3	1.2	18.5	12.7	4.5	1.2
Middle	22.8	12.4	9.2	1.2	20.6	13.5	5.2	2.0
Fourth	31.3	18.1	12.0	1.2	25.3	17.8	5.5	1.9
Highest	34.4	20.0	13.5	0.9	28.2	19.2	7.8	1.2
Residence								
Urban	34.3	19.4	13.6	1.3	25.9	18.0	6.7	1.2
Rural	16.5	9.7	5.9	1.0	17.4	11.6	3.9	2.0
Region								
Centre	36.6	21.9	12.9	1.8	25.2	16.6	6.0	2.6
Centre-Est	31.7	25.7	5.5	0.5	30.0	23.7	4.6	1.7
Centre-Nord	14.5	7.5	5.3	1.7	10.2	7.4	0.9	2.0
Centre-Ouest	41.2	22.6	16.0	2.6	36.5	25.3	8.2	3.1
Nord	6.0	2.2	2.8	1.0	4.1	2.6	0.8	0.7
Nord-Est	19.9	12.9	6.3	0.7	17.8	13.9	3.1	0.8
Nord-Ouest	2.8	1.4	0.8	0.6	4.4	2.5	0.7	1.2
Ouest	14.2	7.1	6.2	0.9	10.1	6.6	2.3	1.2
Sud	36.0	19.6	15.0	1.4	34.6	24.1	8.1	2.4
Sud-Ouest	18.6	9.6	8.6	0.4	21.7	14.0	6.7	1.0
Ville d'Abidjan	43.7	22.9	19.8	1.0	39.7	24.0	14.3	1.4
Total	24.2	13.9	9.2	1.1	21.3	14.5	5.2	1.6
Number	1,247	714	475	58	1,231	838	299	94

Table D3. Non-response rates by selected risk behaviors and other characteristics and sex, Cote d'Ivoire 2005

Characteristic	Male			Female		
	Non-response rate ¹	Reasons for non response		Non-response rate ¹	Reasons for non response	
		Refused	Other/missing		Refused	Other/missing
Marital Union						
Never in union	12.2	11.6	0.6	11.7	11.5	0.3
Currently in monogamous union	14.4	13.6	0.8	13.2	12.6	0.6
Currently in polygynous union	13.4	12.8	0.7	11.1	10.4	0.7
Widowed/divorced/separated	17.0	16.5	0.5	13.3	12.1	1.2
Child birth in the last 5 years						
No	n/a	n/a	n/a	12.6	12.1	0.5
Yes	n/a	n/a	n/a	12.2	11.6	0.6
Occupation						
Not working	12.5	11.9	0.6	12.3	11.9	0.4
Professional/services	20.0	19.2	0.8	15.5	14.9	0.6
Agriculture	10.1	9.5	0.6	8.1	7.5	0.6
Manual	16.0	15.1	1.0	14.3	13.0	1.3
Regular exposure to media sources per week						
None	8.8	8.5	0.2	8.3	7.7	0.6
One source	12.7	11.9	0.8	14.6	13.9	0.6
Two sources	13.0	12.3	0.7	14.8	14.4	0.4
All three sources	19.5	18.6	0.9	20.8	20.3	0.5
Ethnicity						
Akan	14.0	13.0	1.0	13.1	12.5	0.7
Krou	15.0	14.8	0.3	14.7	13.6	1.1
Mande du nord	9.2	8.9	0.4	10.7	10.4	0.3
Mande du sud	8.6	8.0	0.6	9.0	8.8	0.3
Voltaïque	8.5	8.2	0.4	8.0	7.8	0.2
Other nationality/Other	23.5	22.5	1.0	18.2	17.5	0.8
Religion						
Catholic	13.1	12.8	0.4	12.2	12.0	0.2
Protestant/Other Christian	14.3	13.7	0.6	14.3	13.3	1.0
Moslem	14.9	14.3	0.6	13.6	13.0	0.5
Anemist/Other	9.8	8.7	1.1	7.7	7.2	0.4
Circumcision						
No	7.9	6.3	1.6	n/a	n/a	n/a
Yes	13.6	13.0	0.6	n/a	n/a	n/a
STI or STI symptom in the last 12 months						
No	13.8	13.1	0.7	13.3	12.8	0.5
Yes	7.8	7.2	0.6	8.6	7.9	0.6
Age at first sex						
Never had sex	15.4	14.2	1.2	13.8	13.4	0.5
<15	13.3	13.3	0.0	11.5	10.6	0.9
15-17	13.1	12.4	0.7	11.0	10.5	0.5

(Cont'd)

Table D3 - Continued

Characteristic	Male			Female		
	Non-response rate ¹	Reasons for non response		Non-response rate ¹	Reasons for non response	
		Refused	Other/missing		Refused	Other/missing
Age at first sex						
18-19	11.7	10.9	0.8	17.1	16.8	0.3
20+	14.0	13.5	0.5	15.2	14.7	0.6
Number of sex partners in life time						
Never had sex	15.3	14.1	1.2	13.8	13.4	0.5
Had 1 partner	14.7	14.7	0.0	12.4	11.9	0.5
Had 2 sex partners	16.6	16.6	0.0	11.6	11.2	0.4
Had 3+ sex partners	12.1	11.4	0.7	12.0	11.3	0.7
Number of sex partners in last 12 months						
No sex in last 12 months	14.8	14.0	0.8	13.3	12.8	0.5
Had 1 partner	12.5	12.0	0.5	12.1	11.6	0.6
Had 2+ sex partners	13.9	13.0	1.0	11.5	10.8	0.6
Higher risk sex in the last 12 months						
No sex in last 12 months	14.8	14.0	0.8	13.3	12.8	0.5
Sex with spouse/cohabiting	13.8	13.1	0.7	12.3	11.7	0.6
Sex with other	12.1	11.5	0.6	11.6	11.2	0.4
Condom use at last sex in last 12 months						
No sex in last 12 months	14.8	14.0	0.8	13.3	12.8	0.5
Had sex and used condom	16.4	15.9	0.6	16.2	15.8	0.4
Did not use condom	11.7	11.0	0.6	11.6	11.0	0.6
Paid sex in last 12 months						
Never had sex	15.4	14.2	1.2	n/a	n/a	n/a
No sex in last 12 months	13.3	12.7	0.6	n/a	n/a	n/a
Paid sex in last 12 months	4.2	4.2	0.0	n/a	n/a	n/a
Number of times slept away						
0	11.2	10.6	0.7	n/a	n/a	n/a
1-2	14.7	14.2	0.5	n/a	n/a	n/a
3-4	14.7	14.0	0.7	n/a	n/a	n/a
5+	18.0	17.1	0.9	n/a	n/a	n/a
Away from home						
Never	11.2	10.6	0.7	n/a	n/a	n/a
Less than 1 month	16.5	15.9	0.6	n/a	n/a	n/a
1+ month	14.3	13.6	0.7	n/a	n/a	n/a
Number of years in current residence						
<3	17.5	16.9	0.6	16.4	15.6	0.8
3-9	15.6	14.6	1.0	12.3	11.9	0.4
10+	10.6	10.0	0.6	10.5	10.0	0.5

(Cont'd)

Table D3 - Continued

Characteristic	Male			Female		
	Non-response rate ¹	Reasons for non response		Non-response rate ¹	Reasons for non response	
		Refused	Other/missing		Refused	Other/missing
Knowledge of ABC prevention methods						
0	7.2	6.5	0.7	7.7	7.3	0.3
1	16.3	15.1	1.2	11.9	11.0	0.8
2	16.5	15.6	0.9	16.3	15.9	0.5
3	14.0	13.5	0.5	13.9	13.3	0.6
Attitude to PLHIV (scale)						
Lowest	16.6	16.6	0.0	9.6	9.6	0.0
Lower	10.7	10.3	0.4	10.8	9.9	0.8
Middle	14.3	13.5	0.8	12.5	11.9	0.6
Higher	16.4	15.7	0.8	15.1	14.3	0.8
Highest	13.8	12.9	0.9	15.2	15.2	0.0
Ability to negotiate safer sex						
0	8.2	8.0	0.2	10.4	9.9	0.5
1	14.8	14.0	0.8	11.6	10.9	0.7
2	13.9	13.2	0.7	13.5	13.0	0.5
Number of injections in the last 12 months: professionals						
0	12.6	12.0	0.6	11.6	11.0	0.6
1-3	14.6	13.6	1.1	14.7	14.2	0.5
4+	19.8	19.8	0.0	12.4	12.1	0.3
Alcohol use during sex						
No sex in last 12 months	14.8	14.0	0.8	13.3	12.8	0.5
Not used before last sex	13.2	12.6	0.6	12.1	11.6	0.6
One/both used but not drunk	11.1	9.5	1.6	10.6	9.6	1.0
One/both used and drunk	6.7	6.7	0.0	17.8	17.8	0.0
Previously tested						
Never tested	12.8	12.1	0.7	11.7	11.1	0.5
Tested, not in last 12m	21.8	20.7	1.1	20.2	19.4	0.8
Tested, in last 12 m	20.6	20.6	0.0	22.8	22.2	0.7
Total	13.4	12.7	0.7	12.4	11.9	0.5
Number	602	572	30	642	614	28

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table D4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Cote d'Ivoire 2005

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.2	0.4	0.2	0.3	0.2	0.2	0.3	0.3
20-24	0.3	0.3	0.3	0.2	0.3	0.4	0.3	0.3
25-29	3.1	3.0	3.2	2.8	3.4	3.0	3.1	3.1
30-34	5.6	5.1	5.8	5.0	6.1	4.1	5.4	5.5
35-39	5.0	5.6	5.3	5.4	5.4	6.4	5.5	5.2
40-44	7.0	5.2	8.4	5.4	8.5	5.7	6.6	6.9
45-49	4.7	8.6	5.4	7.9	6.6	3.2	6.8	5.2
Education								
No education	2.9	3.4	2.8	3.0	3.1	2.6	3.0	3.0
Primary	1.6	2.4	1.7	2.3	1.7	1.1	2.0	1.7
Secondary +	3.6	3.9	4.6	3.9	4.8	2.6	4.3	3.8
Wealth status								
Lowest	1.7	1.8	1.7	1.7	1.9	1.8	1.8	1.7
Second	3.4	3.1	2.6	2.9	3.0	1.4	2.8	3.3
Middle	4.3	3.2	4.9	3.3	5.2	3.8	4.2	4.3
Fourth	2.1	2.6	2.4	2.5	2.6	2.3	2.5	2.2
Highest	2.7	5.0	3.5	4.6	3.7	2.3	4.2 *	3.2
Residence								
Urban	3.2	4.2	3.8	3.9	4.2	2.7	4.0	3.5
Rural	2.5	2.0	2.3	2.0	2.3	1.9	2.1	2.4
Region								
Centre	4.4	3.0	4.1	3.0	4.3	3.4	3.5	4.1
Centre-Est	2.7	3.3	2.8	3.2	3.1	2.5	3.2	2.9
Centre-Nord	2.8	6.9	2.3	5.6	2.2	1.8	3.8	3.0
Centre-Ouest	1.8	1.5	1.5	1.4	1.7	0.9	1.5	1.7
Nord	2.1	0.9	1.9	1.2	2.3	0.6	1.6	2.1
Nord-Est	1.9	2.9	1.5	2.7	1.4	0.8	2.4	2.0
Nord-Ouest	0.7	0.7	0.4	0.7	0.1	0.2	0.4	0.7
Ouest	2.4	2.1	1.9	1.8	2.2	1.2	2.0	2.3
Sud	2.7	3.0	2.5	2.9	2.5	1.4	2.7	2.7
Sud-Ouest	3.4	4.3	3.9	4.2	3.9	3.8	4.1	3.6
Ville d'Abidjan	3.5	4.5	4.3	4.1	4.6	4.2	4.4	3.8
Total	2.9	3.4	3.2	3.2	3.5	2.3	3.3	3.0
Number	3,901	602	645	714	475	58	1,247	5,148

* Significant at 5%

Table D5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Cote d'Ivoire 2005

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.4	3.0	2.4	2.9	2.5	2.2	2.8 *	1.0 *
20-24	4.5	2.8	2.6	2.8	2.8	1.9	2.7 *	4.0
25-29	7.5	6.5	8.9	6.9	9.5	7.0	7.6	7.6
30-34	14.9	14.2	16.6	14.8	17.6	10.9	15.3	15.0
35-39	8.4	7.9	9.7	8.1	9.6	10.9	8.8	8.5
40-44	8.6	10.2	10.1	10.1	10.9	7.0	10.1	9.0
45-49	10.2	12.5	13.4	12.8	13.3	12.4	13.0	11.0
Education								
No education	5.2	5.2	6.8	5.9	6.4	6.1	6.0	5.4
Primary	8.2	10.0	8.3	9.7	8.8	5.3	9.2	8.5
Secondary +	7.0	7.3	9.5	7.5	9.8	7.5	8.2	7.4
Wealth status								
Lowest	3.6	4.6	3.5	4.4	2.7	4.0	4.0	3.7
Second	3.8	3.7	4.8	4.0	5.0	3.1	4.2	3.9
Middle	6.5	6.7	5.7	6.2	6.3	5.7	6.2	6.4
Fourth	8.0	6.5	9.0	7.0	9.2	7.3	7.6	7.9
Highest	8.8	9.5	10.9	10.1	10.4	9.7	10.2	9.2
Residence								
Urban	7.4	7.6	8.4	7.8	8.5	7.2	8.0	7.6
Rural	5.5	6.1	6.8	6.4	6.9	5.2	6.4	5.7
Region								
Centre	5.1	7.5	5.9	6.8	7.0	4.7	6.7	5.5
Centre-Est	8.6	7.6	9.8	8.2	8.7	9.7	8.3	8.5
Centre-Nord	4.2	4.7	3.9	4.6	5.3	3.2	4.3	4.2
Centre-Ouest	5.5	5.0	5.2	5.1	4.9	5.1	5.1	5.3
Nord	4.2	2.1	3.3	2.5	3.3	3.2	2.9	4.1
Nord-Est	4.4	3.5	4.7	4.1	3.3	7.1	4.1	4.4
Nord-Ouest	2.7	2.5	2.2	2.6	2.0	1.9	2.3	2.7
Ouest	4.6	6.5	3.0	6.0	2.8	1.9	4.9	4.6
Sud	8.0	7.3	9.1	8.0	8.4	6.7	8.0	8.0
Sud-Ouest	5.0	5.2	5.4	5.1	6.0	6.0	5.4	5.1
Ville d'Abidjan	8.6	7.7	9.4	8.1	9.4	9.9	8.6	8.6
Total	6.4	6.9	7.7	7.1	7.9	6.1	7.3 *	6.6
Number	4,541	642	589	838	299	94	1,231	5,772

* Significant at 5%

Appendix E: Ethiopia

Table E1. HIV response rates by selected background characteristics and sex, Ethiopia 2005

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	1,457	74.1	1,718	82.2
20-24	1,185	74.9	1,329	81.2
25-29	953	74.0	1,311	84.0
30-34	841	75.6	853	84.8
35-39	725	75.0	821	82.6
40-44	551	75.1	602	85.7
45-49	463	78.6	508	84.7
50-54	365	78.6	n/a	n/a
55-59	238	79.4	n/a	n/a
Education				
No education	2,745	76.9	4,251	85.3
Primary	2,111	81.6	1,563	84.6
Secondary +	1,919	66.3	1,328	74.5
Wealth status				
Lowest	1,377	75.0	1,473	83.0
Second	1,016	84.2	1,070	87.9
Middle	957	85.8	1,006	92.2
Fourth	994	82.8	968	90.6
Highest	2,434	64.8	2,625	75.1
Residence				
Urban	1,948	59.5	2,239	72.9
Rural	4,830	81.7	4,903	87.9
Region				
Tigray	563	84.0	625	89.9
Affar	387	60.5	405	73.3
Amhara	959	84.9	937	87.8
Oromiya	1,126	85.1	1,101	87.8
Somali	336	57.7	362	71.3
Benishangul-Gumuz	403	82.1	436	88.1
SNNP	956	86.2	1,070	93.2
Gambela	398	73.6	413	82.3
Harari	423	66.4	469	73.6
Addis Ababa	834	62.1	912	73.9
Dire Dawa	393	47.6	412	70.9
Total	6,778	75.4	7,142	83.2

Table E2. Non-response rates by selected background characteristics and sex, Ethiopia 2005

Characteristic	Male				Female			
	Non-response rate	Reasons for non response			Non-response rate	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age								
15-19	25.9	15.7	8.0	2.1	17.8	12.9	3.6	1.3
20-24	25.1	14.2	9.5	1.4	18.8	15.1	2.6	1.2
25-29	26.0	15.3	8.9	1.8	16.0	12.7	2.0	1.3
30-34	24.4	15.8	7.5	1.1	15.2	12.4	1.6	1.2
35-39	25.0	15.6	7.5	1.9	17.4	13.5	2.1	1.8
40-44	24.9	15.3	6.9	2.7	14.3	11.8	1.0	1.5
45-49	21.4	13.0	5.2	3.2	15.4	13.6	0.4	1.4
50-54	21.4	14.5	5.8	1.1	n/a	n/a	n/a	n/a
55-59	20.6	13.5	5.0	2.1	n/a	n/a	n/a	n/a
Education								
No education	23.1	12.7	7.6	2.8	14.7	11.4	1.5	1.8
Primary	18.4	11.6	6.1	0.8	15.4	11.6	3.0	0.7
Secondary +	33.7	22.2	9.7	1.8	25.5	21.1	3.8	0.7
Wealth status								
Lowest	25.1	14.5	9.2	1.5	17.0	13.4	2.2	1.4
Second	15.9	8.4	5.6	1.9	12.2	9.2	0.9	2.1
Middle	14.2	6.7	5.2	2.3	7.9	5.6	1.2	1.1
Fourth	17.2	10.4	5.4	1.4	9.4	6.9	1.2	1.2
Highest	35.3	23.3	9.8	2.1	24.9	20.1	3.6	1.2
Residence								
Urban	40.5	26.7	11.1	2.7	27.2	22.1	3.9	1.2
Rural	18.3	10.3	6.4	1.6	12.1	9.2	1.5	1.4
Region								
Tigray	16.0	7.5	6.6	2.0	10.1	7.0	1.8	1.3
Affar	39.5	22.5	16.3	0.8	26.7	24.2	1.7	0.7
Amhara	15.1	8.9	4.8	1.5	12.2	10.1	1.3	0.8
Oromiya	14.9	7.6	5.4	1.9	12.2	8.5	2.3	1.5
Somali	42.3	29.5	10.4	2.4	28.7	24.0	2.8	1.9
Benishangul-Gumuz	17.9	13.2	2.7	2.0	11.9	8.0	0.5	3.4
SNNP	13.8	6.7	5.9	1.3	6.8	4.9	0.9	1.0
Gambela	26.4	13.6	9.8	3.0	17.7	12.4	3.6	1.7
Harari	33.6	20.8	10.9	1.9	26.4	22.0	3.2	1.3
Addis Ababa	37.9	25.3	9.7	2.9	26.1	20.4	4.4	1.3
Dire Dawa	52.4	37.9	13.0	1.5	29.1	24.8	3.4	1.0
Total	24.7	15.0	7.8	1.9	16.8	13.3	2.3	1.3
Number	1,671	1,018	526	127	1,203	946	161	96

Table E3. Non-response rates by selected risk behaviors and other characteristics and sex, Ethiopia 2005

Characteristic	Male			Female		
	Non-response rate ¹	Reasons for non response		Non-response rate ¹	Reasons for non response	
		Refused	Other/missing		Refused	Other/missing
Marital Union						
Never in union	17.4	17.3	0.1	15.2	14.9	0.3
In monogamous union	13.9	13.2	0.7	11.8	11.5	0.3
In polygynous union	13.1	13.1	0.0	9.2	7.9	1.3
Widowed/divorced/separated	19.1	18.7	0.4	15.3	15.1	0.3
Child birth in the last 5 years						
No	n/a	n/a	n/a	16.0	15.8	0.2
Yes	n/a	n/a	n/a	9.7	9.1	0.6
Occupation						
Not working	21.3	21.1	0.1	13.0	12.6	0.4
Professional/services	27.0	27.0	0.0	18.3	18.3	0.0
Agriculture	10.1	9.5	0.6	5.7	4.7	1.0
Manual	26.5	26.3	0.2	15.4	15.1	0.3
Regular exposure to media sources per week						
None	12.9	12.3	0.6	11.4	11.0	0.5
One source	15.5	15.2	0.3	14.8	14.6	0.2
Two sources	21.9	21.9	0.0	21.2	21.0	0.2
All three sources	32.1	31.7	0.3	19.8	19.8	0.0
Ethnicity						
Amhara	17.5	17.0	0.5	16.6	16.2	0.3
Guragie	17.5	17.2	0.3	8.9	8.7	0.3
Oromo	14.7	14.5	0.3	13.6	13.5	0.1
Tigraway	11.9	11.6	0.3	10.1	9.5	0.6
Affar/sidamo/Somali/Welaita	21.6	21.4	0.2	13.8	13.7	0.2
Other	10.2	9.4	0.8	8.4	7.5	0.9
Religion						
Orthodox	14.6	14.2	0.4	12.5	12.2	0.3
Moslem	19.8	19.4	0.4	15.8	15.4	0.4
Protestant/Catholic/Other	10.1	9.4	0.7	9.2	8.7	0.5
Circumcision						
No	10.1	9.0	1.1	n/a	n/a	n/a
Yes	15.9	15.6	0.4	n/a	n/a	n/a
STI or STI symptom in the last 12 months						
No	15.5	15.1	0.4	13.0	12.7	0.4
Yes	15.6	14.1	1.6	9.6	9.6	0.0
Smokes cigarettes or uses tobacco						
No	15.0	14.6	0.4	12.9	12.6	0.3
Yes	18.2	17.5	0.7	14.3	12.1	2.2

(Cont'd)

Table E3 - Continued

Characteristic	Male			Female		
	Non-response rate ¹	Reasons for non response		Non-response rate ¹	Reasons for non response	
		Refused	Other/missing		Refused	Other/missing
Age at first sex						
Never had sex	15.5	15.4	0.1	14.8	14.5	0.3
<15	13.5	13.5	0.0	11.1	10.7	0.3
15-17	16.6	15.9	0.7	11.9	11.3	0.6
18-19	18.0	17.5	0.5	13.5	13.2	0.3
20+	14.1	13.5	0.6	16.9	16.6	0.3
Number of sex partners in lifetime						
Never had sex	15.5	15.4	0.1	14.8	14.5	0.3
Had 1 partner	15.1	14.6	0.5	12.6	12.2	0.4
Had 2 sex partners	14.4	14.2	0.2	11.5	11.0	0.5
Had 3+ sex partners	16.3	15.4	0.9	9.9	9.3	0.6
Number of sex partners in last 12 months						
No sex in last 12 months	16.5	16.4	0.1	15.5	15.2	0.3
Had 1 partner	14.8	14.2	0.7	11.1	10.7	0.4
Had 2+ sex partners	14.9	14.9	0.0	21.4	21.4	0.0
Higher risk sex in the last 12 months						
No sex in last 12 months	16.5	16.4	0.1	15.5	15.2	0.3
Sex with spouse/cohabiting	13.6	12.9	0.7	11.1	10.6	0.5
Sex with other	24.2	24.0	0.2	15.2	15.2	0.0
Condom use at last sex in last 12 months						
No sex in last 12 months	16.5	16.4	0.1	15.5	15.2	0.3
Had sex and used condom	29.8	29.8	0.0	19.2	19.2	0.0
Did not use condom	13.6	12.9	0.7	11.1	10.7	0.4
Number of times slept away						
0	15.4	15.0	0.4	n/a	n/a	n/a
1-2	13.8	13.6	0.2	n/a	n/a	n/a
3-4	20.1	19.5	0.5	n/a	n/a	n/a
5+	16.6	15.6	1.0	n/a	n/a	n/a
Away from home						
Never	15.4	15.0	0.4	n/a	n/a	n/a
Less than 1 month	14.5	14.0	0.5	n/a	n/a	n/a
1+ month	19.0	18.6	0.5	n/a	n/a	n/a
Participates in 2+ major household decisions (women's empowerment)						
No	n/a	n/a	n/a	14.2	13.8	0.4
Yes	n/a	n/a	n/a	11.8	11.5	0.4
Number of years in current residence						
<3	17.2	17.2	0.0	17.4	17.4	0.0
3-9	19.4	19.2	0.2	15.1	14.8	0.3
10+	14.9	14.4	0.5	12.1	11.7	0.4

(Cont'd)

Table E3 - Continued

Characteristic	Male			Female		
	Non-response rate ¹	Reasons for non response		Non-response rate ¹	Reasons for non response	
		Refused	Other/missing		Refused	Other/missing
Knowledge of ABC prevention methods						
0	21.4	20.6	0.8	13.8	13.2	0.5
1	16.5	15.6	1.0	12.6	12.2	0.5
2	13.9	13.4	0.5	10.8	10.3	0.5
3	14.9	14.7	0.2	14.1	14.0	0.1
Attitude to PLHIV (scale)						
Lowest	13.4	12.6	0.8	12.9	12.5	0.4
Lower	12.5	11.7	0.8	8.8	8.5	0.4
Middle	15.0	14.7	0.2	12.7	12.0	0.7
Higher	19.0	18.9	0.1	16.5	16.4	0.1
Highest	21.1	20.7	0.4	19.9	19.9	0.0
Ability to negotiate safer sex						
0	16.8	15.9	0.8	13.5	12.7	0.8
1	14.5	14.2	0.3	11.2	10.9	0.4
2	15.8	15.4	0.4	14.5	14.3	0.2
Number of injections in the last 12 months: professionals						
0	15.9	15.5	0.4	14.0	13.7	0.4
1-3	12.7	12.1	0.6	9.7	9.2	0.5
4+	15.4	15.2	0.2	10.4	10.0	0.4
Alcohol use during sex						
No sex in last 12 m	16.5	16.4	0.1	15.5	15.2	0.3
Not use before last sex	14.9	14.4	0.5	11.4	10.9	0.4
Used (either/both)	14.1	12.5	1.6	8.7	8.2	0.4
Previously tested						
Never tested	14.6	14.2	0.4	12.6	12.2	0.4
Tested, not in last 12m	22.9	22.9	0.0	18.1	18.1	0.0
Tested, in last 12 m	19.2	19.2	0.0	20.8	20.8	0.0
Total	15.5	15.1	0.4	13.0	12.6	0.4
Number	936	910	26	884	858	26

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table E4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Ethiopia 2005

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
20-24	0.4	0.5	0.4	0.5	0.4	0.2	0.5	0.4
25-29	0.7	1.1	1.0	1.2	0.9	1.2	1.1	0.8
30-34	1.9	2.2	5.5	2.8	5.6	1.5	3.6	*
35-39	1.8	5.9	2.8	6.1	2.9	1.6	4.5	*
40-44	2.8	3.6	3.2	3.7	2.9	4.1	3.5	
45-49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-54	0.9	1.1	1.4	1.1	1.4	1.2	1.2	0.9
55-59	0.3	0.4	0.7	0.4	0.8	0.1	0.5	0.4
Education								
No education	0.8	0.4	0.5	0.4	0.6	0.6	0.5	0.7
Primary	0.5	0.8	0.4	0.7	0.5	0.3	0.6	0.5
Secondary +	2.0	3.2	3.2	3.2	3.3	2.5	3.2	*
Wealth status								
Lowest	0.6	0.2	0.4	0.2	0.4	0.3	0.3	0.6
Second	0.3	0.1	0.2	0.2	0.2	0.3	0.2	0.3
Middle	0.9	0.7	0.6	0.4	0.8	0.7	0.6	0.8
Fourth	0.4	0.5	0.2	0.4	0.3	0.1	0.4	0.4
Highest	2.2	3.0	2.8	3.0	3.1	2.0	2.9	2.4
Residence								
Urban	2.6	3.2	3.1	3.2	3.5	1.9	3.2	2.8
Rural	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.6
Region								
Tigray	2.0	1.9	2.8	1.8	3.3	1.1	2.4	2.1
Affar	2.2	0.8	0.4	0.8	0.4	0.9	0.7	1.7
Amhara	1.4	1.9	1.4	1.9	1.6	0.9	1.7	1.5
Oromiya	0.4	0.3	0.4	0.3	0.4	0.2	0.4	0.4
Somali	-	0.1	0.7	0.2	0.9	0.7	0.4	*
Benishangul-Gumuz	-	1.2	1.2	1.2	1.4	0.7	1.2	*
SNNP	0.4	0.3	0.3	0.3	0.3	0.5	0.3	0.4
Gambela	6.3	3.9	2.1	4.3	1.9	1.2	3.0	*
Harari	2.1	2.8	2.5	2.6	2.8	2.8	2.7	2.2
Addis Ababa	3.3	5.3	4.8	5.2	5.2	4.3	5.1	*
Dire Dawa	1.7	2.0	2.0	2.0	2.0	1.8	2.0	1.8
Total	0.9	1.4	1.2	1.4	1.3	0.9	1.3	*
Number	5,107	936	735	1,018	526	127	1,671	6,778

* Significant at 5%

Table E5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Ethiopia 2005

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible	
		Interview status		Reason not tested					
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing			
Age									
15-19	0.7	0.9	1.1	0.9	1.3	0.7	1.0		0.7
20-24	1.7	3.1	2.2	3.0	3.2	0.5	2.9	*	1.9
25-29	2.1	3.3	6.0	3.6	7.6	1.8	4.1	*	2.3
30-34	1.5	2.8	3.9	3.0	6.7	0.2	3.1	*	1.6
35-39	4.4	10.2	8.3	10.4	8.8	6.3	9.7	*	5.2
40-44	3.1	3.1	1.8	3.4	1.7	0.9	2.8		3.0
45-49	0.8	3.3	2.3	3.3	4.2	2.1	3.1	*	1.1
Education									
No education	1.0	1.9	1.7	1.8	2.2	1.4	1.8	*	1.1
Primary	2.5	4.4	4.1	4.6	3.7	2.5	4.3	*	2.6
Secondary +	5.5	7.0	7.0	7.0	7.5	5.3	7.0		5.8
Wealth status									
Lowest	0.3	0.3	0.3	0.3	0.3	0.3	0.3		0.3
Second	1.0	1.4	0.7	1.3	0.4	1.1	1.2		1.0
Middle	0.4	0.4	0.5	0.3	0.6	0.7	0.4		0.4
Fourth	0.2	0.3	0.3	0.3	0.4	0.2	0.3		0.2
Highest	6.1	7.5	7.5	7.6	8.0	5.0	7.5	*	6.4
Residence									
Urban	7.7	8.0	8.0	8.0	8.5	6.3	8.0		7.8
Rural	0.7	1.0	0.7	0.9	0.7	0.8	0.9		0.7
Region									
Tigray	2.6	5.5	1.8	5.8	2.1	1.4	4.6		2.8
Affar	3.3	7.1	0.7	6.5	0.1	6.1	6.1		3.9
Amhara	1.8	3.0	4.1	3.0	5.8	1.3	3.2		2.0
Oromiya	2.2	3.8	3.1	3.8	4.4	1.3	3.6		2.4
Somali	1.3	1.4	4.2	1.9	3.2	4.5	2.2		1.6
Benishangul-Gumuz	0.9	4.1	0.6	4.4	2.0	0.6	2.7		1.1
SNNP	0.1	0.0	0.1	0.0	0.1	0.1	0.1		0.1
Gambela	5.6	8.3	3.3	7.5	3.7	0.6	6.1		5.6
Harari	4.6	4.2	6.1	4.5	5.6	6.0	4.7		4.6
Addis Ababa	6.1	6.5	5.9	6.4	5.8	6.4	6.3		6.1
Dire Dawa	4.4	4.3	7.1	4.6	5.4	10.2	4.9		4.5
Total	1.9	3.5	3.2	3.5	4.1	1.6	3.4	*	2.1
Number	5,939	884	319	946	161	96	1,203		7,142

* Significant at 5%

Appendix F: Ghana

Table F1. HIV response rates by selected background characteristics and sex, Ghana 2003

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	1,175	83.7	1,173	88.8
20-24	750	78.5	1,045	90.1
25-29	780	78.9	1,005	90.0
30-34	661	80.0	844	89.2
35-39	551	77.7	768	87.6
40-44	433	78.8	592	87.7
45-49	465	81.9	522	91.6
50-54	320	76.6	n/a	n/a
55-59	210	77.6	n/a	n/a
Education				
No education	1,209	79.3	2,022	87.9
Primary	900	82.7	1,148	91.6
Middle/JSS	2,092	81.3	2,115	90.9
Secondary +	1,140	76.3	664	84.0
Wealth quintile				
Lowest	1,284	84.7	1,398	88.7
Second	1,005	85.0	1,040	91.1
Middle	929	82.0	1,023	92.2
Fourth	978	77.4	1,131	89.4
Highest	1,149	70.8	1,357	86.2
Residence				
Urban	2,063	73.7	2,500	87.6
Rural	3,282	83.9	3,449	90.5
Region ¹				
North	1,519	80.8	1,542	85.9
South East	1,610	71.5	1,911	86.2
South West	791	85.8	901	94.3
Central	1,425	85.4	1,595	93.3
Total	5,345	80.0	5,949	89.3

¹ North includes: Upper East, Upper West, and Northern regions; Southeast includes: Eastern, Volta, and Greater Accra regions; Southwest includes: Western and Central regions; and Central includes: Ashanti and Brong Ahafo regions

Table F2. Non-response rates by selected background characteristics and sex, Ghana 2003

Characteristic	Male				Female			
	Non-response rate	Reasons for non-response			Non-response rate	Reasons for non-response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age								
15-19	16.3	6.6	8.3	1.5	11.2	4.3	4.5	2.4
20-24	21.5	11.5	8.0	2.0	9.9	4.1	4.1	1.6
25-29	21.2	9.9	8.5	2.8	10.1	5.5	3.1	1.5
30-34	20.0	11.7	6.1	2.3	10.8	6.5	2.6	1.7
35-39	22.3	13.3	6.4	2.7	12.4	6.5	4.3	1.6
40-44	21.3	13.6	6.0	1.6	12.3	7.4	3.7	1.2
45-49	18.1	8.4	8.0	1.7	8.4	3.5	2.7	2.3
50-54	23.4	12.5	7.5	3.4	n/a	n/a	n/a	n/a
55-59	22.4	11.4	6.7	4.3	n/a	n/a	n/a	n/a
Education								
No education	20.7	8.9	8.3	3.6	12.1	5.6	3.8	2.7
Primary	17.3	8.1	6.3	2.9	8.4	4.2	2.9	1.3
Middle/JSS	18.7	9.9	7.2	1.6	9.1	4.7	3.2	1.1
Secondary +	23.7	14.5	7.9	1.3	16.0	8.1	6.0	1.8
Wealth quintile								
Lowest	15.3	6.2	5.9	3.2	11.3	5.2	3.5	2.6
Second	15.0	7.0	6.2	1.9	8.9	4.2	3.1	1.6
Middle	18.0	9.6	7.0	1.4	7.8	3.6	2.8	1.4
Fourth	22.6	12.2	8.1	2.4	10.6	5.8	3.3	1.6
Highest	29.2	16.9	10.3	2.0	13.8	7.1	5.2	1.5
Residence								
Urban	26.3	14.6	9.4	2.3	12.4	6.3	4.5	1.7
Rural	16.1	7.6	6.3	2.2	9.5	4.6	3.1	1.8
Region ¹								
North	19.2	8.4	7.4	3.4	14.1	6.5	4.8	2.8
South East	28.5	14.5	11.5	2.5	13.8	6.7	5.0	2.0
South West	14.2	8.3	4.8	1.0	5.7	2.7	2.1	0.9
Central	14.6	8.7	4.5	1.4	6.7	4.0	1.8	0.9
Total	20.0	10.3	7.5	2.2	10.7	5.3	3.7	1.8
Number	1,071	552	400	119	638	315	218	105

¹ See Table F1

Table F3. Non-response rates by selected risk behaviors and other characteristics and sex, Ghana 2003

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Marital Union								
Never in union	13.7	9.3	3.7	0.8	7.4	4.6	1.8	1.0
In monogamous union	14.7	10.2	3.2	1.3	6.3	4.7	0.7	0.8
In polygynous union	16.5	10.4	3.6	2.4	7.5	5.5	1.2	0.9
Widowed/divorced/separated	23.0	18.5	3.1	1.4	7.8	6.6	0.6	0.6
Child birth in the last 5 years								
No	n/a	n/a	n/a	n/a	7.8	5.1	1.8	0.9
Yes	n/a	n/a	n/a	n/a	6.5	4.9	0.8	0.8
Occupation								
Not working	11.5	7.9	3.3	0.3	7.3	5.1	1.0	1.2
Professional/services	23.4	18.1	4.0	1.2	8.6	6.3	1.4	0.9
Agriculture	12.2	7.9	2.8	1.5	5.3	3.7	0.8	0.8
Manual	17.3	11.5	4.7	1.2	6.2	4.7	1.0	0.5
Regular exposure to media sources per week								
None	12.9	7.5	3.9	1.5	6.6	4.1	1.2	1.3
One source	12.9	8.4	3.3	1.2	6.0	4.4	0.9	0.6
Two sources	15.2	11.4	2.7	1.1	7.6	5.8	1.1	0.7
All three sources	19.8	14.5	4.2	1.1	9.7	7.3	1.2	1.2
Ethnicity								
Akan	15.2	11.4	3.2	0.7	5.3	4.0	0.9	0.5
Ga/Dangme	19.8	15.7	3.9	0.3	11.9	9.2	0.9	1.8
Ewe	13.4	9.1	2.8	1.5	5.9	4.4	1.0	0.4
Mole-Dagbani	14.7	9.5	4.0	1.3	10.3	7.5	1.7	1.1
Other	13.6	7.9	3.4	2.4	5.7	3.2	1.1	1.5
Religion								
Roman Catholic	13.9	10.2	2.9	0.8	6.7	5.6	0.7	0.4
Anglican/Methodist/Protestant	17.6	13.7	3.0	1.0	7.0	5.1	1.2	0.7
Other Christian	13.8	9.6	3.8	0.5	6.6	5.0	0.8	0.9
Moslem	16.0	10.3	3.9	1.8	6.7	4.0	2.3	0.5
Other	14.7	9.2	2.7	2.8	9.2	5.9	0.6	2.7
Circumcision								
No	13.1	7.9	2.7	2.5	n/a	n/a	n/a	n/a
Yes	15.0	10.5	3.4	1.1	n/a	n/a	n/a	n/a
STI or STI symptom in the last 12 months								
No	15.0	10.5	3.4	1.1	7.0	5.1	1.0	0.8
Yes	11.9	6.3	2.5	3.1	6.5	3.2	1.8	1.5

(Cont'd)

Table F3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Smokes cigarettes or uses tobacco								
No	14.7	10.5	3.3	0.9	6.9	5.0	1.1	0.9
Yes	16.5	9.4	4.2	2.9	7.1	7.1	0.0	0.0
Age at first sex								
Never had sex	11.8	7.5	3.8	0.4	7.4	4.4	1.9	1.1
<15	18.0	13.9	3.6	0.5	8.1	5.0	0.8	2.3
15-17	15.3	10.6	3.6	1.1	6.6	5.0	0.9	0.8
18-19	14.9	10.3	3.2	1.4	5.7	4.5	0.7	0.4
20+	16.4	11.7	3.0	1.7	8.2	6.1	1.3	0.8
Number of sex partners in last 12 months								
No sex in last 12 m	13.5	9.7	3.3	0.5	7.6	5.1	1.5	1.0
Had 1 sex partner	15.2	10.3	3.4	1.6	6.6	4.9	0.9	0.8
Had 2+ sex partners	18.2	13.2	3.8	1.3	8.2	6.6	1.6	0.0
Higher risk sex in the last 12 months								
No sex in last 12 m	13.5	9.7	3.3	0.5	7.6	5.1	1.5	1.0
Sex with spouse/cohabiting	14.9	10.1	3.2	1.6	6.2	4.7	0.6	0.9
Sex with other	17.2	12.0	3.8	1.4	8.2	5.9	1.9	0.3
Condom use at last sex in last 12 months								
No sex in last 12 m	13.5	9.7	3.3	0.5	7.6	5.1	1.5	1.0
Had sex and used condom	17.2	13.1	3.2	0.9	9.2	7.2	1.6	0.3
Did not use condom	15.3	10.2	3.5	1.6	6.4	4.7	0.8	0.8
Paid for sex								
No sex	11.8	7.5	3.8	0.4	n/a	n/a	n/a	n/a
Never paid	15.8	11.3	3.1	1.5	n/a	n/a	n/a	n/a
Paid for sex	16.0	10.3	4.8	1.0	n/a	n/a	n/a	n/a
Number of times slept away								
0	14.8	10.1	3.5	1.2	n/a	n/a	n/a	n/a
1-2	13.7	9.8	3.1	0.8	n/a	n/a	n/a	n/a
3-4	14.4	10.1	2.6	1.7	n/a	n/a	n/a	n/a
5+	16.9	11.4	4.2	1.3	n/a	n/a	n/a	n/a
Away from home								
Never	14.8	10.1	3.5	1.2	n/a	n/a	n/a	n/a
Less than 1 month	15.4	10.8	3.5	1.2	n/a	n/a	n/a	n/a
1+ month	14.1	9.8	3.2	1.2	n/a	n/a	n/a	n/a

(Cont'd)

Table F3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Participates in 2+ major household decisions (women's empowerment)								
No	n/a	n/a	n/a	n/a	7.7	5.4	1.4	1.0
Yes	n/a	n/a	n/a	n/a	6.2	4.6	0.8	0.8
Number of years living in current residence								
<3 years	17.5	12.3	4.0	1.2	6.4	4.9	0.7	0.7
3-9 years	16.9	11.7	3.9	1.3	7.4	5.7	0.7	1.0
10+ years	13.7	9.5	3.1	1.1	6.9	4.7	1.3	0.9
Knowledge of ABC prevention methods								
0	11.6	6.0	2.0	3.5	5.5	2.7	1.1	1.6
1	18.2	14.4	1.8	2.1	8.6	6.7	1.0	1.0
2	16.7	11.3	3.8	1.6	6.6	5.1	0.7	0.8
3	14.3	9.9	3.5	0.9	6.9	5.0	1.2	0.8
Attitude to PLHIV (scale)								
Lowest	15.3	11.3	2.7	1.4	6.3	5.1	0.7	0.5
Lower	13.5	9.1	3.3	1.1	6.7	4.8	0.9	1.0
Middle	14.3	10.2	2.7	1.4	7.0	5.1	1.0	0.9
Higher	15.8	11.2	3.5	1.0	7.8	5.4	1.7	0.7
Highest	17.3	11.0	5.3	1.0	5.5	4.1	0.7	0.7
Ability to negotiate safer sex								
0	16.4	12.3	2.9	1.2	7.9	5.9	1.1	0.9
1	14.7	10.3	2.9	1.5	6.8	4.8	1.1	0.9
2	14.9	10.3	3.5	1.1	n/a	n/a	n/a	n/a
Alcohol use during sex								
No sex in last 12 m	13.5	9.7	3.3	0.5	7.6	5.1	1.5	1.0
Not use before last sex	15.2	10.2	3.5	1.5	6.8	5.1	0.9	0.8
Used (either/both)	17.7	13.2	3.0	1.6	5.0	3.7	0.8	0.5
Previously tested								
Never tested	14.7	9.9	3.5	1.2	7.0	5.0	1.2	0.9
Tested, not in last 12m	14.1	11.1	2.3	0.8	7.1	6.2	0.0	0.8
Tested, in last 12 m	23.8	21.5	1.7	0.6	4.7	2.9	0.6	1.2
Total	14.9	10.4	3.4	1.2	6.9	5.0	1.1	0.9
Number	748	519	170	59	394	284	61	49

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table F4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Ghana 2003

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-24	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
25-29	1.2	0.6	1.3	0.7	1.0	0.9	0.8	1.1
30-34	2.8	3.5	3.1	3.5	3.0	4.2	3.4	2.9
35-39	3.1	4.1	3.1	4.2	3.2	3.3	3.8	3.2
40-44	4.1	5.3	3.9	5.0	3.9	9.5	5.0	4.3
45-49	1.9	1.4	2.0	1.1	1.9	2.5	1.6	1.8
50-54	3.6	4.8	3.6	5.2	3.2	4.1	4.5	3.8
55-59	2.8	1.7	2.3	2.1	1.5	1.4	1.8	2.6
Education								
No education	1.3	1.6	1.0	1.3	1.6	1.0	1.4	1.3
Primary	1.9	3.3	1.2	3.9	1.1	3.3	2.8	2.0
Middle/JSS	2.1	2.3	2.1	2.4	1.8	3.3	2.3	2.1
Secondary +	1.1	1.6	1.4	1.8	1.1	1.8	1.6	1.2
Wealth quintile								
Lowest	1.3	1.4	0.7	1.4	1.0	1.3	1.2	1.3
Second	1.8	3.1	1.6	3.8	1.4	1.9	2.6	1.9
Middle	2.1	2.4	1.5	1.7	2.1	5.2	2.2	2.1
Fourth	1.7	1.5	1.9	1.7	1.4	2.4	1.6	1.7
Highest	1.4	2.3	1.8	2.6	1.5	2.4	2.2	1.6
Residence								
Urban	1.7	2.2	1.9	2.3	1.6	2.9	2.1	1.8
Rural	1.7	2.1	1.2	2.2	1.3	1.9	1.8	1.7
Region ¹								
North	1.4	1.7	1.1	1.3	1.5	1.9	1.5	1.4
South East	2.0	2.7	2.0	2.9	1.7	3.4	2.5	2.1
South West	1.6	1.6	1.4	1.7	1.4	1.2	1.6	1.6
Central	1.5	1.6	1.2	1.7	0.9	1.2	1.5	1.5
Total	1.7	2.1	1.6	2.3	1.5	2.4	2.0	1.7
Number	4,274	748	323	552	400	119	1,071	5,345

¹ See Table F1

Table F5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Ghana 2003

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-24	1.2	1.0	1.0	1.1	1.0	0.9	1.0	1.2
25-29	3.4	4.2	2.9	4.0	3.4	3.5	3.7	3.4
30-34	4.2	4.5	4.0	4.9	3.6	3.1	4.4	4.2
35-39	4.7	5.6	4.6	5.2	4.2	6.7	5.1	4.7
40-44	3.0	1.9	2.8	1.8	2.7	2.6	2.2	2.9
45-49	2.5	3.2	2.2	3.1	3.0	1.8	2.7	2.5
Education								
No education	2.2	2.5	2.1	2.8	1.8	2.0	2.3	2.2
Primary	3.3	3.7	3.7	4.2	3.2	3.5	3.7	3.4
Middle/JSS	3.1	3.7	2.5	3.5	2.9	3.6	3.3	3.1
Secondary +	1.6	1.5	1.7	1.8	1.4	1.1	1.6	1.6
Wealth quintile								
Lowest	1.4	1.2	1.3	1.2	1.3	1.1	1.2	1.4
Second	2.7	4.2	2.1	4.5	2.2	1.7	3.3	2.8
Middle	4.0	3.8	3.6	4.2	3.1	3.7	3.7	3.9
Fourth	2.9	2.8	3.1	2.8	3.2	2.7	3.0	2.9
Highest	2.4	3.1	2.2	3.0	2.2	3.6	2.8	2.5
Residence								
Urban	2.9	3.0	2.7	3.0	2.7	3.2	2.9	2.9
Rural	2.5	2.9	2.2	3.3	2.1	1.9	2.6	2.5
Region ¹								
North	1.1	1.2	0.9	1.2	1.1	1.0	1.1	1.1
South East	2.9	3.8	2.8	3.6	3.0	3.0	3.3	3.0
South West	2.9	3.3	2.7	4.1	2.0	2.6	3.0	2.9
Central	3.2	3.2	3.0	3.2	2.7	3.8	3.1	3.2
Total	2.7	3.0	2.5	3.1	2.4	2.6	2.8	2.7
Number	5,311	394	244	315	218	105	638	5,949

¹ See Table F1

Appendix G: India

Table G1. HIV response rates by selected background characteristics and sex, India 2005-06

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	10,782	80.7	11,876	85.0
20-24	10,755	78.7	11,434	83.9
25-29	9,659	76.6	10,427	84.6
30-34	8,607	77.1	8,921	86.5
35-39	7,945	77.6	8,060	85.8
40-44	6,740	77.5	6,554	85.2
45-49	5,726	78.0	4,910	84.0
50-54	3,961	76.9	n/a	n/a
Education				
No education	9,428	75.1	19,792	84.6
1-7 years	15,265	81.5	13,711	87.9
8-9 years	13,179	81.2	9,605	88.3
10+ years	26,258	75.6	19,056	81.7
Wealth status				
Lowest	5,761	81.4	6,187	86.3
Second	8,478	82.5	8,708	88.1
Middle	12,394	83.1	12,269	89.0
Fourth	16,843	78.4	15,505	87.0
Highest	20,699	72.0	19,513	79.2
Residence				
Urban	35,178	73.2	31,842	80.8
Rural	28,997	84.0	30,340	89.4
Region ¹				
Low prevalence	27,769	80.0	27,113	85.4
High prevalence	36,406	76.6	35,069	84.7
Total	64,175	78.1	62,182	85.0

¹ Low prevalence region includes: Delhi, Haryana, Himachal Pradesh, Jammu & Kashmir, Punjab, Rajasthan, Uttaranchal, Chhattisgarh, Madhya Pradesh, Uttar Pradesh, Bihar, Jharkhand, Orissa, West Bengal, Arunachal Pradesh, Assam, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura, Goa, Gujarat, and Kerala; High prevalence region includes: Andhra Pradesh, Karnataka, Maharashtra, Manipur, and Tamil Nadu

Table G2. Non-response rates by selected background characteristics and sex, India 2005-06

Characteristic	Male				Female			
	Non-response rate	Reasons for non response			Non-response rate	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age								
15-19	19.3	6.6	10.0	2.7	15.0	8.3	4.5	2.1
20-24	21.3	6.5	11.9	3.0	16.1	8.4	5.2	2.5
25-29	23.4	6.9	13.5	3.0	15.5	8.1	4.6	2.7
30-34	22.9	7.5	12.4	3.0	13.5	7.3	4.0	2.2
35-39	22.4	6.3	13.0	3.1	14.2	7.7	4.3	2.2
40-44	22.5	7.4	12.2	2.9	14.8	8.6	3.9	2.3
45-49	22.0	7.5	11.6	2.9	16.0	8.7	4.4	2.8
50-54	23	8	12	3	n/a	n/a	n/a	n/a
Education								
No education	24.9	7.1	12.8	4.9	15.4	8.0	4.4	3.0
1-7 years	18.5	5.4	10.3	2.8	12.1	6.2	3.6	2.4
8-9 years	18.8	5.3	11.0	2.6	11.7	6.4	3.7	1.7
10+ years	24.4	8.6	13.3	2.5	18.3	10.5	5.5	2.2
Wealth status								
Lowest	18.6	5.0	10.6	3.0	13.7	6.9	4.3	2.5
Second	17.6	4.3	10.0	3.2	11.9	6.2	3.6	2.1
Middle	16.9	4.5	9.7	2.7	11.1	5.4	3.5	2.2
Fourth	21.6	6.3	12.2	3.0	13.0	6.5	4.3	2.2
Highest	28.0	10.5	14.6	2.9	20.8	12.4	5.7	2.8
Residence								
Urban	26.8	9.2	14.4	3.2	19.2	11.0	5.4	2.8
Rural	16.0	4.1	9.2	2.7	10.6	5.2	3.5	2.0
Region ¹								
Low prevalence	20.0	6.5	10.9	2.7	14.6	8.6	3.8	2.1
High prevalence	23.4	7.3	12.9	3.2	15.3	7.7	5.0	2.6
Total	21.9	6.9	12.1	3.0	15.0	8.1	4.5	2.4
Number	14,082	4,445	7,744	1,893	9,329	5,054	2,784	1,491

¹ See Table G1

Table G3. Non-response rates by selected risk behaviors and other characteristics and sex, India 2005-06

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Marital Union								
Never in union	10.6	5.7	2.8	2.1	10.5	7.3	1.5	1.7
In monogamous union	9.2	5.1	2.3	1.9	8.8	6.4	1.1	1.4
In polygynous union	12.2	7.1	2.4	2.7	5.7	3.3	1.2	1.2
Widowed	8.6	5.7	2.6	0.3	8.9	6.0	1.5	1.4
Divorced/separated	8.4	5.1	0.8	2.4	9.2	6.1	1.0	2.0
Child birth in the last 5 years								
No	n/a	n/a	n/a	n/a	9.3	6.6	1.2	1.6
Yes	n/a	n/a	n/a	n/a	8.9	6.5	1.1	1.4
Occupation								
Not working	9.7	5.9	2.0	1.8	10.3	7.6	1.2	1.6
Professional/services	12.3	7.1	3.1	2.2	11.1	7.4	1.7	2.0
Agriculture	6.1	3.2	1.6	1.3	6.0	4.1	0.9	1.0
Manual	10.0	5.0	2.7	2.3	7.1	4.4	1.4	1.3
Regular exposure to media sources per week								
None	10.0	5.6	2.5	1.8	9.5	7.1	1.2	1.3
One source	8.7	4.6	2.3	1.8	8.3	5.7	1.2	1.4
Two sources	10.0	5.7	2.4	1.9	9.3	6.7	1.0	1.6
All three sources	10.1	5.3	2.6	2.2	10.4	7.3	1.4	1.7
Caste/tribe								
Scheduled caste	8.2	4.1	2.3	1.7	7.9	5.5	1.2	1.3
Scheduled tribe	8.4	5.0	1.5	1.9	8.1	5.8	0.7	1.5
Backward class	8.9	4.7	2.1	2.1	8.2	5.7	1.1	1.5
Other/dk/missing	11.9	6.8	3.1	1.9	11.2	8.2	1.4	1.6
Religion								
Hindu	9.0	4.7	2.3	2.0	8.4	5.8	1.1	1.5
Muslim	15.0	8.8	3.9	2.3	14.2	10.7	1.8	1.7
Christian	8.8	5.6	1.6	1.7	8.8	6.7	0.9	1.3
Other/missing	8.8	5.5	2.1	1.2	8.2	5.9	1.1	1.2
Circumcision								
No	9.0	4.8	2.2	1.9	n/a	n/a	n/a	n/a
Yes	14.5	8.4	3.8	2.3	n/a	n/a	n/a	n/a
STI or STI symptom in the last 12 months								
No	9.8	5.4	2.5	2.0	9.4	6.7	1.2	1.5
Yes	6.3	2.7	2.1	1.5	5.7	4.1	0.9	0.7
Smokes cigarettes or uses tobacco								
No	10.7	6.1	2.5	2.2	9.5	6.8	1.2	1.5
Yes	8.9	4.7	2.5	1.8	7.1	4.8	1.1	1.2

(Cont'd)

Table G3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age at first sex								
Never had sex	10.8	5.8	2.9	2.1	10.5	7.3	1.5	1.7
<15	6.1	3.5	2.0	0.6	8.4	6.0	1.1	1.4
15-17	7.5	4.2	2.0	1.3	8.3	5.9	1.0	1.3
18-19	7.9	4.4	2.0	1.6	8.4	5.9	0.9	1.6
20+	9.9	5.4	2.4	2.1	10.0	7.3	1.2	1.4
Number of lifetime sex partners								
No sex in last 12 months	10.8	5.8	2.9	2.1	10.5	7.3	1.5	1.7
Had 1 sex partner	9.7	5.4	2.3	2.0	8.8	6.3	1.1	1.4
Had 2 sex partner	7.1	3.7	2.0	1.4	7.7	5.4	0.8	1.5
Had 3+ sex partners	6.3	3.4	1.7	1.2	5.3	5.3	0.0	0.0
Number of sex partners in last 12 months								
No sex in last 12 months	10.6	5.7	2.8	2.1	10.1	7.0	1.4	1.7
Had 1 sex partner	9.2	5.1	2.3	1.9	8.8	6.3	1.1	1.4
Had 2 sex partner	5.8	3.3	1.6	1.0	5.3	5.3	0.0	0.0
Had 3+ sex partners	9.0	2.0	4.0	3.0	n/a	n/a	n/a	n/a
Higher risk sex in the last 12 months								
No sex in last 12 months	10.6	5.7	2.8	2.1	10.1	7.0	1.4	1.7
Sex with spouse/cohabiting	9.2	5.1	2.3	1.9	8.8	6.3	1.1	1.4
Sex with other	8.4	4.7	2.2	1.5	6.7	6.7	0.0	0.0
Condom use at last sex in last 12 months								
No sex in last 12 months	10.6	5.7	2.8	2.1	10.1	7.0	1.4	1.7
Had sex and used condom	10.1	6.0	2.5	1.7	11.6	8.9	1.4	1.2
Did not use condom	9.1	5.0	2.2	1.9	8.5	6.1	1.0	1.4
Women empowerment								
0	n/a	n/a	n/a	n/a	9.9	6.8	1.3	1.7
1	n/a	n/a	n/a	n/a	7.8	5.6	0.9	1.3
2	n/a	n/a	n/a	n/a	8.2	6.0	0.9	1.3
3	n/a	n/a	n/a	n/a	8.7	6.5	1.0	1.2
4	n/a	n/a	n/a	n/a	9.2	6.6	1.2	1.4
Paid for sex								
No sex	10.8	5.8	2.9	2.1	n/a	n/a	n/a	n/a
Never paid	9.2	5.1	2.3	1.9	n/a	n/a	n/a	n/a
Paid for sex	6.1	4.6	1.5	0.0	n/a	n/a	n/a	n/a
Number of times slept away								
0	11.0	6.1	2.8	2.1	n/a	n/a	n/a	n/a
1-2	9.2	5.1	2.2	1.9	n/a	n/a	n/a	n/a
3-4	8.7	4.8	2.1	1.8	n/a	n/a	n/a	n/a
5+	9.0	4.7	2.4	1.9	n/a	n/a	n/a	n/a

(Cont'd)

Table G3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Away from home								
Never	11.0	6.1	2.8	2.1	n/a	n/a	n/a	n/a
Less than 1 month	9.1	4.9	2.3	2.0	n/a	n/a	n/a	n/a
1+ month	8.0	4.4	2.1	1.5	n/a	n/a	n/a	n/a
Number of years living in current residence								
<3 years	11.8	6.5	3.1	2.2	10.9	7.9	1.5	1.5
3-9 years	11.5	6.9	2.6	2.0	9.2	6.7	1.1	1.4
10+ years	9.3	5.0	2.4	1.9	8.9	6.2	1.1	1.5
Knowledge of ABC prevention methods								
0	11.1	6.2	2.6	2.3	9.7	6.9	1.2	1.6
1	10.8	6.1	2.5	2.3	8.4	5.9	0.9	1.7
2	10.1	5.7	2.4	1.9	7.9	5.5	1.2	1.3
3	9.2	4.9	2.4	1.9	9.5	6.8	1.3	1.5
Attitude to PLHIV (scale)								
Lowest	11.3	6.4	2.7	2.2	10.3	7.6	1.2	1.6
Lower	9.4	5.1	2.0	2.2	7.7	5.6	0.8	1.3
Middle	9.5	4.8	2.7	2.0	8.5	5.9	1.1	1.5
Higher	9.5	5.2	2.4	1.9	9.2	6.5	1.1	1.5
Highest	9.5	5.2	2.5	1.8	8.8	6.1	1.4	1.4
Women can refuse sex if spouse had STD								
No	10.9	6.2	2.3	2.4	10.2	7.4	1.2	1.6
Yes	9.5	5.2	2.5	1.9	8.9	6.3	1.2	1.5
Number of injections by a health professional in the last 12 months								
0	11.1	6.2	2.8	2.0	10.5	7.5	1.4	1.6
1-3	7.9	4.1	1.9	1.9	7.7	5.5	0.8	1.4
4+	6.9	3.3	1.7	1.9	6.8	4.7	0.8	1.3
Drinks alcohol frequently								
Don't drink	10.5	5.8	2.5	2.1	9.2	6.6	1.2	1.5
Drink less than one per week	7.9	4.2	2.2	1.4	8.6	6.6	1.3	0.7
Drink about one per week	9.1	4.3	3.0	1.8	5.9	3.9	0.3	1.7
Drink almost everyday	8.5	5.0	1.4	2.1	8.0	5.8	0.7	1.5
Previously tested								
Never tested	9.7	5.3	2.5	2.0	9.2	6.5	1.2	1.5
Tested, not in last 12 months	10.7	6.1	2.6	2.0	9.3	6.6	1.6	1.1
Tested, in last 12 months	12.1	7.4	2.2	2.6	11.1	8.7	1.0	1.5
Total	9.8	5.3	2.5	2.0	9.2	6.5	1.2	1.5
Number	5,409	2,954	1,364	1,091	5,360	3,806	688	866

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table G4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, India 2005-06

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-24	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.2
25-29	0.4	0.5	0.6	0.5	0.6	0.6	0.6	0.5
30-34	0.6	0.8	1.0	0.8	1.0	1.0	0.9	*
35-39	0.5	0.7	0.7	0.6	0.7	0.9	0.7	*
40-44	0.4	0.6	0.6	0.6	0.6	0.7	0.6	0.4
45-49	0.5	0.5	0.6	0.5	0.6	0.8	0.6	0.5
50-54	0.3	0.4	0.5	0.5	0.4	0.5	0.5	0.4
Education								
No education	0.5	0.5	0.7	0.5	0.6	0.7	0.6	0.5
1-7 years	0.4	0.5	0.6	0.5	0.6	0.7	0.6	*
8-9 years	0.4	0.5	0.7	0.6	0.6	0.6	0.6	*
10+ years	0.2	0.3	0.3	0.3	0.3	0.3	0.3	*
Wealth status								
Lowest	0.4	0.4	0.5	0.4	0.5	0.7	0.5	0.4
Second	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.3
Middle	0.4	0.4	0.5	0.4	0.4	0.6	0.5	0.4
Fourth	0.5	0.6	0.8	0.6	0.8	0.8	0.7	*
Highest	0.2	0.4	0.4	0.4	0.4	0.4	0.4	*
Residence								
Urban	0.4	0.5	0.6	0.5	0.6	0.6	0.6	*
Rural	0.3	0.4	0.4	0.4	0.4	0.6	0.4	*
Region ¹								
Low prevalence	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
High prevalence	0.8	0.7	0.8	0.7	0.8	0.9	0.8	0.8
Total	0.4	0.4	0.5	0.4	0.5	0.6	0.5	*
Number	50,093	5,409	8,673	4,445	7,744	1,893	14,082	64,175

* Significant at 5%

¹ See Table G1

Table G5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, India 2005-06

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
20-24	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
25-29	0.3	0.3	0.4	0.3	0.4	0.5	0.4	0.3
30-34	0.4	0.5	0.6	0.5	0.6	0.8	0.6	0.5
35-39	0.2	0.3	0.3	0.3	0.3	0.5	0.3	0.2
40-44	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2
45-49	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
Education								
No education	0.3	0.3	0.4	0.2	0.4	0.4	0.3	0.3
1-7 years	0.3	0.5	0.5	0.5	0.5	0.5	0.5 *	0.3
8-9 years	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.1
10+ years	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1
Wealth status								
Lowest	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2
Second	0.2	0.2	0.4	0.3	0.4	0.4	0.3	0.2
Middle	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3
Fourth	0.3	0.4	0.5	0.4	0.4	0.6	0.4	0.4
Highest	0.1	0.2	0.2	0.2	0.2	0.2	0.2 *	0.1
Residence								
Urban	0.3	0.3	0.4	0.3	0.4	0.4	0.3	0.3
Rural	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2
Region ¹								
Low prevalence	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
High prevalence	0.6	0.4	0.5	0.4	0.5	0.5	0.5 *	0.5
Total	0.2	0.2	0.3	0.2	0.3	0.4	0.3 *	0.2
Number	52,853	5,360	3,969	5,054	2,784	1,491	9,329	62,182

* Significant at 5%

¹ See Table G1

Appendix H: Kenya

Table H1. HIV response rates by selected background characteristics and sex, Kenya 2003

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	928	76.0	975	75.3
20-24	791	67.5	886	77.7
25-29	637	64.8	704	76.4
30-34	513	70.2	618	76.5
35-39	451	69.0	451	78.9
40-44	362	70.7	395	74.2
45-49	241	69.3	274	74.1
50-54	260	75.0	n/a	n/a
Education				
No education	365	68.2	699	74.5
Primary incomplete	1,250	75.8	1,259	81.6
Primary complete	939	70.4	993	76.9
Secondary +	1,627	66.6	1,352	72.0
Wealth status				
Lowest	596	80.4	661	84.9
Second	624	80.5	677	87.0
Middle	703	74.4	732	82.2
Fourth	838	73.3	822	78.0
Highest	1,422	57.9	1,411	63.2
Residence				
Urban	1,466	58.4	1,488	66.2
Rural	2,717	76.7	2,815	81.7
Region				
Nairobi	665	50.2	651	54.5
Central	739	62.9	738	70.7
Coast	444	66.2	488	80.1
Eastern	506	74.5	502	76.1
Nyanza	488	87.1	514	91.1
Rift Valley	679	75.7	702	81.1
Western	467	82.7	507	88.0
North Eastern	195	74.9	201	75.6
Total	4,183	70.3	4,303	76.3

Table H2. Non-response rates by selected background characteristics and sex, Kenya 2003

Characteristic	Male				Female			
	Non-response rate	Reasons for non response			Non-response rate	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age								
15-19	24.0	10.2	11.1	2.7	24.7	15.1	7.5	2.2
20-24	32.5	13.7	15.4	3.4	22.4	13.5	4.7	4.1
25-29	35.2	14.3	16.6	4.2	23.6	13.2	6.8	3.6
30-34	29.8	11.5	16.6	1.8	23.5	14.2	6.0	3.2
35-39	31.0	14.0	14.2	2.9	21.1	13.3	5.5	2.2
40-44	29.3	16.0	11.3	1.9	25.8	16.7	7.1	2.0
45-49	30.7	14.5	13.7	2.5	25.9	18.6	6.9	0.4
50-54	25.0	10.4	11.2	3.5	n/a	n/a	n/a	n/a
Education								
No education	31.8	13.7	11.5	6.6	25.5	17.7	4.7	3.0
Primary incomplete	24.2	11.2	10.0	3.0	18.4	11.8	4.0	2.6
Primary complete	29.6	13.3	14.2	2.1	23.1	15.0	6.0	2.0
Secondary +	33.4	13.6	17.3	2.5	28.0	15.0	9.5	3.5
Wealth status								
Lowest	19.6	11.9	6.2	1.5	15.1	10.9	2.9	1.4
Second	19.6	8.2	8.0	3.4	13.0	9.3	2.1	1.6
Middle	25.6	10.4	13.2	2.0	17.8	10.7	4.5	2.6
Fourth	26.7	12.7	10.5	3.6	22.0	13.5	5.5	3.0
Highest	42.1	16.5	22.2	3.5	36.8	21.3	11.4	4.0
Residence								
Urban	41.6	15.8	22.6	3.2	33.8	19.2	11.0	3.6
Rural	23.3	11.2	9.3	2.8	18.3	12.0	3.9	2.4
Region								
Nairobi	49.8	15.8	30.5	3.5	45.5	22.7	19.1	3.7
Central	37.1	15.2	17.3	4.6	29.3	18.8	6.6	3.8
Coast	33.8	18.2	12.4	3.2	19.9	13.7	3.7	2.5
Eastern	25.5	16.0	6.7	2.8	23.9	15.5	4.4	4.0
Nyanza	12.9	3.7	6.6	2.7	9.0	4.7	2.7	1.6
Rift Valley	24.3	10.0	11.9	2.4	19.0	12.1	3.4	3.4
Western	17.3	9.2	6.2	1.9	12.0	8.7	2.4	1.0
North Eastern	25.1	14.4	10.8	0.0	24.4	19.9	4.5	0.0
Total	29.7	12.8	13.9	2.9	23.7	14.5	6.3	2.8
Number	1,242	536	583	123	1,018	625	272	121

Table H3. Non-response rates by selected risk behaviors and other characteristics and sex, Kenya 2003

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Marital Union								
Never in union	18.2	10.9	4.7	2.5	21.8	13.6	5.4	2.7
In monogamous union	19.2	13.6	4.3	1.3	18.6	13.9	3.0	1.7
In polygynous union	15.3	11.1	3.7	0.5	14.7	13.0	0.5	1.2
Widowed/divorced/separated	18.0	13.7	2.2	2.2	17.8	14.2	2.1	1.4
Child birth in the last 5 years								
No	n/a	n/a	n/a	n/a	22.2	15.0	4.5	2.7
Yes	n/a	n/a	n/a	n/a	17.8	13.3	2.9	1.6
Occupation								
Not working	16.4	10.7	3.8	1.8	19.5	14.0	3.8	1.8
Professional/services	22.6	15.9	5.4	1.2	23.0	16.3	4.5	2.2
Agriculture	13.9	9.1	2.6	2.3	12.8	9.8	1.6	1.4
Manual	22.4	14.5	6.0	2.0	24.3	17.6	3.4	3.2
Regular exposure to media sources per week								
None	12.7	8.7	1.7	2.3	18.3	14.7	1.9	1.8
One source	15.6	10.8	3.2	1.6	15.5	11.4	2.4	1.7
Two sources	19.0	12.8	4.5	1.7	20.6	15.4	3.4	1.8
All three sources	23.1	14.6	6.4	2.1	27.5	16.6	8.0	3.0
Ethnicity								
Kalenjin	9.6	6.5	0.6	2.5	10.6	5.6	2.8	2.2
Kamba	24.8	15.9	7.3	1.6	20.9	14.9	4.8	1.3
Kikuyu	27.0	16.2	7.5	3.3	26.5	18.7	5.3	2.5
Luhya	11.5	8.1	2.5	1.0	12.1	8.8	2.6	0.7
Luo	13.3	8.2	4.6	0.5	11.9	7.4	2.7	1.7
Other	17.6	13.1	2.9	1.5	20.2	16.0	2.0	2.3
Religion								
Roman Catholic	18.0	11.8	5.0	1.1	18.1	12.6	3.5	2.1
Protestant /other Christian	18.0	11.2	4.4	2.3	18.3	12.6	3.7	2.1
Muslim	21.0	17.1	3.2	0.8	22.4	20.4	1.1	0.9
Other/no religion	21.1	15.4	3.1	2.6	31.8	25.0	4.6	2.3
Circumcision								
No	11.4	7.1	3.7	0.6	n/a	n/a	n/a	n/a
Yes	19.6	13.1	4.4	2.0	n/a	n/a	n/a	n/a
STI or STI symptom in the last 12 months								
No	18.6	12.3	4.5	1.9	19.2	14.0	3.3	1.9
Yes	10.5	10.5	0.0	0.0	10.6	6.1	3.0	1.5
Alcohol use								
Never	17.1	11.6	3.4	2.1	18.8	13.8	3.1	1.9
More than 1 month ago	18.9	13.0	5.0	0.9	21.4	14.8	4.8	1.9
In the last month	20.5	12.9	5.6	2.0	19.3	11.4	5.0	3.0

(Cont'd)

Table H3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Smokes cigarettes or uses tobacco								
No	17.5	11.4	4.4	1.7	18.8	13.6	3.4	1.9
Yes	21.1	14.7	4.1	2.4	27.1	20.8	3.1	3.1
Age at first sex								
Never had sex	20.0	12.4	4.9	2.6	22.6	14.9	4.6	3.0
<15	16.0	10.4	4.1	1.4	16.2	11.9	2.5	1.7
15-17	17.5	11.4	4.5	1.7	16.9	13.0	2.3	1.5
18-19	19.8	13.0	4.7	2.1	18.2	13.2	3.2	1.8
20+	21.1	15.7	3.6	1.8	22.3	15.7	4.7	1.9
Number of sex partners in last 12 months								
No sex in last 12 months	19.7	12.1	4.9	2.6	22.1	15.2	4.3	2.6
Had 1 partner	17.5	11.9	4.1	1.5	17.6	13.1	2.9	1.7
Had 2+ sex partners	22.2	16.1	3.7	2.5	12.7	9.5	3.2	0.0
Higher risk sex in the last 12 months								
No sex in last 12 months	19.7	12.1	4.9	2.6	22.1	15.2	4.3	2.6
Sex with spouse/cohabiting	18.5	13.1	4.1	1.3	17.5	13.1	2.6	1.6
Sex with other	16.9	10.7	4.1	2.1	17.4	11.1	4.4	1.9
Condom use at last sex in last 12 months								
No sex in last 12 months	19.7	12.1	4.9	2.6	22.1	15.2	4.3	2.6
Had sex and used condom	20.4	13.4	4.4	2.6	19.0	11.1	5.2	2.6
Did not use condom	17.4	12.0	4.0	1.4	17.4	13.1	2.8	1.6
Paid for sex								
No sex	20.0	12.4	4.9	2.6	n/a	n/a	n/a	n/a
Never paid	18.4	12.5	4.2	1.7	n/a	n/a	n/a	n/a
Paid for sex	16.3	9.1	5.0	2.1	n/a	n/a	n/a	n/a
Perceived risk of getting AIDS								
No risk	15.8	11.4	2.7	1.7	20.0	14.6	3.5	1.9
Small	21.0	13.3	5.6	2.1	19.0	13.4	3.6	2.0
Moderate	15.0	10.3	4.1	0.6	16.5	12.8	2.1	1.6
High/had AIDS	17.6	12.0	4.4	1.3	19.0	13.4	4.0	1.7
Number of times slept away								
0	18.6	12.3	4.1	2.2	n/a	n/a	n/a	n/a
1-2	14.8	9.2	4.4	1.2	n/a	n/a	n/a	n/a
3-4	15.9	11.6	3.8	0.6	n/a	n/a	n/a	n/a
5+	24.3	16.8	5.3	2.3	n/a	n/a	n/a	n/a
Away from home								
Never	18.6	12.3	4.1	2.2	n/a	n/a	n/a	n/a
Less than 1 month	16.1	10.1	4.5	1.6	n/a	n/a	n/a	n/a
1+ month	23.0	16.9	4.9	1.2	n/a	n/a	n/a	n/a

(Cont'd)

Table H3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Participates in 2+ major household decisions (women's empowerment)								
No	n/a	n/a	n/a	n/a	18.2	13.0	3.2	2.1
Yes	n/a	n/a	n/a	n/a	19.8	14.5	3.5	1.8
Number of years in current residence								
<3	18.4	10.9	6.0	1.5	22.1	17.0	2.9	2.2
3-9	21.3	15.7	4.0	1.7	19.5	12.6	4.8	2.1
10+	17.6	11.5	4.1	2.0	17.3	12.8	2.8	1.7
Knowledge of ABC prevention methods								
0	42.9	28.6	14.3	0.0	22.2	22.2	0.0	0.0
1	30.1	23.0	4.4	2.7	22.6	16.4	2.8	3.4
2	20.5	13.8	4.5	2.2	20.0	15.1	2.5	2.3
3	17.6	11.4	4.6	1.6	17.6	11.7	4.2	1.7
Attitude to PLHIV (scale)								
Lowest	12.9	7.9	3.0	2.0	14.8	12.1	1.7	1.1
Lower	16.2	9.9	4.1	2.3	20.7	17.4	2.3	1.1
Middle	17.1	13.1	2.3	1.7	18.7	13.2	3.1	2.5
Higher	20.1	13.1	4.9	2.1	19.2	13.1	4.2	1.9
Highest	18.9	12.3	5.1	1.5	18.6	12.9	3.6	2.1
Ability to negotiate safer sex								
0	24.1	16.3	6.4	1.4	20.1	15.9	1.9	2.3
1	20.2	13.4	4.3	2.5	19.4	15.1	2.5	1.9
2	17.6	11.7	4.2	1.7	18.7	13.0	3.7	1.9
Previously tested								
Never tested	17.9	12.3	4.0	1.6	18.5	13.7	3.0	1.8
Tested, not in last 12m	19.9	12.3	5.5	2.1	21.5	14.6	5.1	1.9
Tested, in last 12 m	22.5	12.0	7.5	3.1	22.2	13.4	4.9	3.9
Total	18.5	12.3	4.4	1.8	19.1	13.8	3.3	1.9
Number	661	439	156	66	770	557	135	78

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table H4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Kenya 2003

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
20-24	2.4	3.0	2.9	2.8	3.4	1.5	3.0	2.6
25-29	7.8	4.9	9.7	5.6	9.6	4.6	7.5	7.7
30-34	6.5	5.4	7.2	5.7	6.9	5.2	6.4	6.5
35-39	8.3	8.6	9.5	9.8	8.3	7.9	8.9	8.5
40-44	8.9	8.6	9.3	8.9	8.4	10.6	8.9	8.9
45-49	5.1	3.3	5.1	3.1	5.2	5.9	4.1	4.9
50-54	5.6	3.5	5.4	4.2	5.2	3.2	4.5	5.4
Education								
No education	2.2	2.1	2.7	2.6	2.2	2.6	2.5	2.3
Primary incomplete	3.9	3.5	3.4	3.4	3.1	4.9	3.5	3.8
Primary complete	5.9	4.1	7.6	5.2	6.4	5.1	5.8	5.9
Secondary +	5.1	5.5	7.0	5.8	6.7	4.6	6.2	5.4
Wealth status								
Lowest	3.9	2.0	2.8	2.1	3.0	2.2	2.3	3.6
Second	4.0	2.3	2.7	2.7	1.9	3.6	2.5	3.7
Middle	2.5	1.8	3.1	1.8	2.5	4.9	2.4	2.5
Fourth	4.5	3.3	3.9	3.4	4.1	2.6	3.5	4.2
Highest	7.4	7.1	8.8	8.0	8.1	6.3	7.9	7.6
Residence								
Urban	7.8	5.7	9.0	6.7	8.0	6.2	7.4	7.6
Rural	3.7	3.6	3.3	3.8	3.2	3.4	3.5	3.6
Region								
Nairobi	8.0	6.4	8.8	7.4	7.7	6.4	7.5	7.8
Central	2.1	2.4	2.3	2.6	2.0	2.7	2.4	2.2
Coast	4.4	3.0	4.6	3.9	3.6	2.8	3.7	4.2
Eastern	2.1	2.2	2.5	2.1	2.5	3.5	2.3	2.1
Nyanza	12.1	23.3	17.2	24.7	19.3	9.9	18.6	13.0
Rift Valley	3.4	4.6	3.2	5.0	3.2	2.2	3.8	3.5
Western	3.6	5.1	5.4	4.6	5.9	6.0	5.2	3.9
North Eastern	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total	4.7	4.5	5.8	4.8	5.5	4.3	5.1	4.8
Number	2,941	661	581	536	583	123	1,242	4,183

*Significant at 5%

Table H5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Kenya 2003

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	3.0	2.2	3.0	2.6	2.5	1.5	2.4	2.9
20-24	9.1	5.9	9.3	6.7	7.8	6.7	7.0	8.7
25-29	12.8	9.7	15.4	9.8	14.7	11.3	11.4	12.6
30-34	11.8	10.2	11.9	9.6	11.1	13.0	10.5	11.5
35-39	11.8	9.5	10.0	10.2	10.1	6.4	9.7	11.3
40-44	9.5	9.0	11.1	10.4	9.1	6.1	9.6	9.5
45-49	3.8	2.5	5.6	2.7	4.8	-	3.4	3.8
Education								
No education	4.7	6.3	6.9	6.7	6.5	6.4	6.6	5.0
Primary incomplete	9.3	5.7	10.9	6.9	7.0	7.0	7.0	* 8.9
Primary complete	10.6	7.9	11.4	8.8	8.6	7.2	8.6	10.2
Secondary +	8.2	6.8	8.4	6.2	8.4	8.9	7.2	7.9
Wealth status								
Lowest	3.8	6.3	2.8	6.4	3.0	4.5	5.2	4.0
Second	8.5	5.6	7.5	6.3	4.6	7.6	6.2	8.3
Middle	7.2	6.7	6.4	7.5	5.0	5.9	6.6	7.1
Fourth	9.7	5.5	8.9	5.5	8.1	6.4	6.3	* 9.0
Highest	12.2	7.7	11.4	8.1	9.6	9.5	8.7	* 11.1
Residence								
Urban	12.3	8.1	11.4	8.4	9.4	10.2	9.0	* 11.3
Rural	7.5	5.9	7.5	6.3	6.5	5.9	6.3	7.3
Region								
Nairobi	11.9	8.4	11.6	8.8	9.5	9.1	9.1	10.9
Central	7.6	5.7	8.1	6.0	6.0	8.2	6.4	7.3
Coast	7.1	7.0	9.7	7.6	9.6	8.5	8.1	7.2
Eastern	6.1	4.6	6.1	4.9	5.3	3.8	4.8	5.9
Nyanza	18.1	18.3	16.3	20.9	15.3	12.5	17.6	18.0
Rift Valley	6.9	4.7	7.1	5.2	5.7	5.5	5.4	6.6
Western	5.8	7.9	6.9	7.5	4.5	23.3	7.7	6.0
North Eastern	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total	8.7	6.8	9.2	7.2	8.0	7.6	7.5	* 8.5
Number	3,285	770	248	625	272	121	1,018	4,303

*Significant at 5%

Appendix I: Lesotho

Table II. HIV response rates by selected background characteristics and sex, Lesotho 2004

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	895	70.8	947	80.7
20-24	606	66.7	752	82.7
25-29	444	65.3	551	77.0
30-34	353	69.1	432	85.7
35-39	274	66.1	376	80.9
40-44	194	64.4	382	76.4
45-49	201	65.7	318	80.5
50-54	186	71.5	n/a	n/a
55-59	152	67.8	n/a	n/a
Education				
No education	700	67.0	107	79.4
Primary	1,765	71.1	2,192	83.9
Secondary+	839	62.1	1,459	75.9
Wealth status				
Lowest	652	72.6	614	87.3
Second	655	72.4	759	84.7
Middle	650	70.0	666	82.4
Fourth	672	66.2	768	79.8
Highest	676	59.0	951	72.7
Residence				
Urban	791	60.7	1,011	73.3
Rural	2,514	70.3	2,747	83.4
Region				
Butha-Buthe	360	68.3	406	80.3
Leribe	348	65.2	424	81.1
Berea	386	72.0	390	80.5
Maseru	503	50.5	583	65.0
Mafeteng	332	75.0	384	85.2
Mohale's Hoek	399	65.4	432	82.2
Quthing	256	71.1	310	89.7
Qasha's Nek	226	82.7	256	87.1
Mokhotlong	269	72.1	307	84.7
Thaba-Tseka	226	74.3	266	85.0
Total	3,305	68.0	3,758	80.7

Table I2. Non-response rates by selected background characteristics and sex, Lesotho 2004

Characteristic	Male				Female			
	Non-response rate	Reasons for non response			Non-response rate	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age								
15-19	29.2	14.4	8.8	5.9	19.3	11.2	3.7	4.4
20-24	33.3	16.3	10.9	6.1	17.3	10.4	2.8	4.1
25-29	34.7	17.8	11.3	5.6	23.1	14.7	4.9	3.5
30-34	30.9	15.6	8.2	7.1	14.4	10.0	0.9	3.5
35-39	33.9	20.1	7.3	6.6	19.2	14.6	1.1	3.5
40-44	35.6	19.1	7.7	8.8	23.6	14.7	3.4	5.5
45-49	34.3	22.4	4.0	8.0	19.5	10.7	1.9	6.9
50-54	28.5	12.4	8.1	8.1	n/a	n/a	n/a	n/a
55-59	32.2	17.1	2.6	12.5	n/a	n/a	n/a	n/a
Education								
No education	33.0	14.9	9.3	8.9	20.6	6.5	1.9	12.2
Primary	28.9	13.9	8.3	6.6	16.1	8.7	2.6	4.8
Secondary+	37.9	23.6	8.8	5.5	24.1	17.5	3.6	3.1
Wealth status								
Lowest	27.5	11.8	9.4	6.3	12.7	5.9	2.4	4.4
Second	27.6	13.1	8.2	6.3	15.3	7.1	2.2	5.9
Middle	30.0	14.8	9.2	6.0	17.6	10.5	3.5	3.6
Fourth	33.8	16.4	8.6	8.8	20.2	13.3	2.9	4.0
Highest	41.0	26.5	7.8	6.7	27.3	20.1	3.5	3.8
Residence								
Urban	39.3	26.8	6.3	6.2	26.7	21.6	2.4	2.8
Rural	29.8	13.4	9.4	7.0	16.6	8.6	3.1	4.9
Region								
Butha-Buthe	31.7	16.9	8.1	6.7	19.7	12.8	2.5	4.4
Leribe	34.8	18.1	10.1	6.6	18.9	12.5	2.1	4.3
Berea	28.0	11.1	7.3	9.6	19.5	8.5	2.8	8.2
Maseru	49.5	27.6	9.7	12.1	35.0	23.7	5.0	6.4
Mafeteng	25.0	13.3	7.5	4.2	14.8	7.3	4.2	3.4
Mohale's Hoek	34.6	20.6	10.0	4.0	17.8	11.6	3.0	3.2
Quthing	28.9	7.8	14.1	7.0	10.3	3.6	2.6	4.2
Qasha's Nek	17.3	11.1	1.8	4.4	12.9	8.2	1.6	3.1
Mokhotlong	27.9	16.0	7.4	4.5	15.3	11.7	2.0	1.6
Thaba-Tseka	25.7	12.4	8.9	4.4	15.0	11.7	1.5	1.9
Total	32.0	16.6	8.7	6.8	19.3	12.1	2.9	4.3
Number	1,059	548	286	225	726	453	110	163

Table I3. Non-response rates by selected risk behaviors and other characteristics and sex, Lesotho 2004

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Marital Union								
Never in union	19.0	14.3	0.4	4.3	16.1	13.0	0.2	2.9
Currently married	21.9	17.9	0.4	3.6	14.0	10.6	0.2	3.1
Widowed/divorced/separated	17.8	12.4	0.0	5.4	13.8	10.4	0.6	2.8
Child birth in the last 5 years								
No	n/a	n/a	n/a	n/a	16.2	13.2	0.2	2.8
Yes	n/a	n/a	n/a	n/a	13.9	10.6	0.3	3.1
Occupation								
Not working	17.7	13.0	0.3	4.5	12.6	9.5	0.2	2.9
Professional/services	31.9	27.7	0.4	3.9	23.8	20.9	0.2	2.7
Agriculture	18.7	14.6	0.6	3.5	7.8	4.9	0.2	2.7
Manual	22.2	18.2	0.6	3.4	19.9	15.5	0.5	3.8
Regular exposure to media sources per week								
None	15.9	11.8	0.2	3.9	11.6	7.8	0.1	3.7
One source	19.2	14.5	0.4	4.3	14.5	11.8	0.3	2.4
Two sources	29.5	24.1	0.7	4.7	21.6	18.2	0.6	2.8
All three sources	30.5	27.5	0.5	2.5	26.6	25.2	0.0	1.4
Religion								
Roman Catholic	21.1	16.6	0.5	4.0	16.2	12.0	0.3	3.8
Lesotho Evangelical Church	21.2	16.4	0.5	4.3	12.9	10.6	0.3	2.0
Other/No religion	18.3	14.1	0.2	4.0	13.7	11.0	0.2	2.5
Circumcision								
No	21.8	17.3	0.4	4.1	n/a	n/a	n/a	n/a
Yes	18.4	14.0	0.4	3.9	n/a	n/a	n/a	n/a
STI or STI symptom in the last 12 months								
No	20.9	16.4	0.4	4.2	15.2	11.9	0.3	3.0
Yes	12.1	8.7	0.4	3.0	11.2	8.2	0.2	2.7
Alcohol use								
Never	20.1	15.9	0.5	3.7	15.2	11.8	0.2	3.2
More than 3 months ago	19.3	13.4	0.3	5.6	13.0	10.1	0.0	3.0
In the last 3 months	20.3	16.2	0.3	3.9	13.2	10.6	0.6	2.0
Smokes cigarettes or uses tobacco								
No	21.1	16.7	0.4	4.0	15.1	11.8	0.3	3.1
Yes	18.7	14.3	0.3	4.1	12.4	9.5	0.2	2.7
Age at first sex								
Never had sex	19.2	14.6	0.6	4.1	17.0	13.3	0.4	3.3
<15	18.0	12.7	0.9	4.4	12.3	8.8	0.0	3.5
15-17	19.1	14.4	0.4	4.2	12.2	9.2	0.3	2.6
18-19	24.1	19.2	0.4	4.5	14.2	10.8	0.2	3.2
20+	19.7	16.0	0.1	3.6	18.2	15.1	0.1	3.0

(Cont'd)

Table I3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Number of sex partners in lifetime								
0	19.2	14.6	0.6	4.1	n/a	n/a	n/a	n/a
1	18.3	13.9	0.2	4.2	n/a	n/a	n/a	n/a
2	17.4	12.8	0.6	4.0	n/a	n/a	n/a	n/a
3+	21.2	16.7	0.4	4.1	n/a	n/a	n/a	n/a
Number of sex partners in last 12 months								
No sex in last 12 months	19.7	15.0	0.8	3.9	15.1	11.7	0.2	3.3
Had 1 sex partner	20.5	16.2	0.2	4.1	14.5	11.3	0.2	2.9
Had 2+ sex partners	19.9	15.5	0.4	4.0	14.3	11.0	0.7	2.7
Higher risk sex in the last 12 months								
No sex in last 12 months	19.7	15.0	0.8	3.9	15.1	12.4	0.3	3.0
Sex with spouse/cohabiting	21.8	18.6	0.1	3.1	15.0	11.9	0.2	2.9
Sex with other	19.3	14.2	0.3	4.7	13.5	10.1	0.3	3.0
Condom use at last sex in last 12 months								
No sex in last 12 m	19.7	15.0	0.8	3.9	15.1	11.7	0.2	3.3
Had sex and used condom	23.2	18.5	0.5	4.2	19.1	16.9	0.2	2.0
Did not use condom	19.1	14.9	0.1	4.0	13.4	10.1	0.3	3.1
Paid for sex								
No sex	19.1	14.6	0.6	3.9	n/a	n/a	n/a	n/a
Never paid	20.1	15.7	0.4	4.1	n/a	n/a	n/a	n/a
Ever paid for sex	22.7	19.5	0.0	3.3	n/a	n/a	n/a	n/a
Number of times slept away								
0	20.1	15.0	0.5	4.5	n/a	n/a	n/a	n/a
1-2	19.8	16.6	0.5	2.8	n/a	n/a	n/a	n/a
3-4	24.5	19.8	0.4	4.3	n/a	n/a	n/a	n/a
5+	17.7	14.2	0.0	3.6	n/a	n/a	n/a	n/a
Away from home								
Never	20.1	15.0	0.5	4.5	n/a	n/a	n/a	n/a
Less than 1 month	21.2	17.1	0.5	3.6	n/a	n/a	n/a	n/a
1+ month	19.7	16.3	0.0	3.4	n/a	n/a	n/a	n/a
Participates in 2+ major household decisions (women's empowerment)								
No	n/a	n/a	n/a	n/a	12.3	9.2	0.3	2.9
Yes	n/a	n/a	n/a	n/a	16.4	13.0	0.3	3.1
Number of years living in current residence								
<3 years	27.2	24.0	0.9	2.3	17.7	15.3	0.2	2.2
3-9 years	26.3	22.9	0.4	2.9	17.1	14.5	0.2	2.4
10+ years	18.9	14.2	0.3	4.3	13.6	10.1	0.3	3.3

(Cont'd)

Table I3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Knowledge of ABC prevention methods								
0	24.8	19.6	0.3	5.0	14.5	11.4	0.0	3.1
1	20.9	15.4	0.3	5.1	17.0	12.6	0.4	3.9
2	18.3	14.3	0.6	3.5	14.6	11.3	0.4	2.9
3	19.7	15.5	0.4	3.9	14.4	11.3	0.2	2.9
Attitude to PLHIV (scale)								
Lowest	23.3	18.6	0.6	4.2	14.2	10.7	0.0	3.6
Lower	16.6	13.5	0.2	3.0	12.3	8.7	0.4	3.2
Middle	20.6	15.5	0.6	4.4	14.2	11.0	0.4	2.9
Higher	21.1	16.6	0.2	4.3	17.5	14.6	0.1	2.8
Ability to negotiate safer sex								
0	18.3	13.6	0.4	4.4	14.5	10.1	0.0	4.4
1	22.1	16.9	0.7	4.5	12.9	9.3	0.2	3.5
2	19.5	15.5	0.2	3.8	15.1	12.0	0.3	2.8
Number of injections in the last 3 months								
No	20.0	15.5	0.4	4.0	15.1	11.8	0.3	3.0
Yes	21.3	17.6	0.0	3.7	8.8	5.6	0.0	3.2
Alcohol use during sex								
No sex in last 12 m	19.7	15.0	0.8	3.9	17.0	13.3	0.4	3.3
Not use before last sex	20.2	15.9	0.2	4.1	14.5	11.5	0.2	2.9
Used (either/both)	21.0	16.5	0.5	4.0	11.3	7.1	1.0	3.2
Previously tested								
Never tested	18.7	14.2	0.4	4.1	14.5	11.2	0.2	3.1
Tested, not in last 12m	23.6	20.1	0.0	3.5	14.7	11.0	0.8	2.9
Tested, in last 12 m	27.7	25.5	0.0	2.1	16.2	13.9	0.0	2.3
Total	20.1	15.7	0.4	4.0	14.6	11.4	0.3	3.0
Number	563	439	11	113	518	403	9	106

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table I4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Lesotho 2004

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	2.3	1.9	2.1	2.0	2.1	2.0	2.0	2.2
20-24	12.2	13.0	12.6	11.7	12.8	15.7	12.8	12.4
25-29	23.9	23.8	23.4	23.3	23.7	24.3	23.6	23.8
30-34	41.1	37.0	40.9	36.4	41.6	41.0	38.9	40.5
35-39	39.1	37.9	40.6	38.3	40.9	39.8	39.1	39.1
40-44	33.9	24.8	35.7	24.8	36.1	34.2	29.4	32.2
45-49	26.2	30.0	26.7	28.8	25.2	31.6	28.9	27.2
50-54	18.2	20.7	17.9	18.9	17.9	20.8	19.2	18.4
55-59	14.5	13.3	13.6	12.6	11.3	15.3	13.4	14.2
Education								
No education	26.0	23.7	23.0	22.6	21.3	26.7	23.3	25.1
Primary	16.7	19.3	16.2	18.9	15.6	18.4	17.8	17.0
Secondary+	19.0	17.3	21.9	17.5	21.8	20.3	18.9	19.0
Wealth status								
Lowest	17.8	17.6	13.8	18.1	14.1	12.6	15.3	17.1
Second	16.6	15.4	15.9	13.8	15.2	19.7	15.7	16.4
Middle	23.1	22.5	23.8	21.0	24.2	26.7	23.2	23.1
Fourth	21.6	26.2	24.7	27.6	21.6	26.1	25.5	23.0
Highest	14.9	14.3	16.8	14.9	15.0	16.5	15.2	15.0
Residence								
Urban	22.2	20.4	22.0	20.5	21.1	21.9	20.8	21.6
Rural	18.1	18.3	18.6	17.9	17.9	20.3	18.5	18.3
Region								
Butha-Buthe	13.1	16.1	13.1	14.9	14.4	13.5	14.5	13.5
Leribe	26.6	25.0	29.3	27.2	26.6	26.9	27.0	26.7
Berea	21.8	22.2	18.3	18.7	13.5	26.5	20.2	21.3
Maseru	18.3	17.4	17.2	17.7	15.7	17.6	17.3	17.9
Mafeteng	16.6	19.2	22.9	18.3	25.8	20.2	21.6	17.7
Mohale's Hoek	20.1	19.7	20.5	19.3	19.9	24.6	20.1	20.1
Quthing	17.5	20.5	16.4	15.3	15.8	22.4	17.3	17.5
Qasha's Nek	16.1	14.3	25.7	17.1	17.9	20.9	18.2	16.4
Mokhotlong	11.9	12.6	10.2	12.2	9.1	12.2	11.2	11.7
Thaba-Tseka	14.6	18.9	14.1	16.8	13.2	19.8	15.7	14.9
Total	18.9	19.1	19.2	18.9	18.3	20.7	19.2	19.0
Number	2,246	563	496	548	286	225	1,059	3,305

Table I5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Lesotho 2004

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	7.9	7.2	7.9	7.0	7.4	8.7	7.5	7.8
20-24	24.5	25.8	24.2	25.4	23.9	25.8	25.3	24.6
25-29	39.2	37.6	40.1	38.7	39.2	35.8	38.4	39.0
30-34	40.3	38.8	40.7	39.3	32.3	40.6	39.2	40.1
35-39	43.3	37.5	43.2	38.4	45.5	39.3	38.9	42.6
40-44	28.5	23.4	27.7	22.5	30.3	25.1	24.3	27.4
45-49	16.8	18.4	18.1	18.1	18.6	18.6	18.3	17.2
Education								
No education	30.4	33.6	29.0	28.2	38.4	29.6	30.0	30.3
Primary	26.5	25.6	25.9	27.1	25.3	23.6	25.7	26.4
Secondary+	26.0	24.7	22.0	24.8	21.8	22.6	24.1	25.5
Wealth status								
Lowest	19.7	18.5	18.8	17.6	16.1	21.4	18.6	19.6
Second	27.8	24.1	23.6	24.5	24.7	22.9	23.9	27.2
Middle	25.4	25.2	24.7	26.9	20.2	24.6	25.0	25.4
Fourth	27.4	28.9	27.1	29.4	29.3	24.1	28.4	27.6
Highest	28.7	24.4	25.3	24.6	24.3	24.8	24.6	* 27.6
Residence								
Urban	33.0	27.6	33.5	27.6	33.7	31.4	28.4	* 31.7
Rural	24.3	23.1	22.4	23.8	21.0	22.4	22.9	24.0
Region								
Butha-Buthe	25.3	22.1	26.2	22.1	23.7	27.1	23.3	24.9
Leribe	30.6	28.2	23.5	29.8	20.5	21.2	27.2	30.0
Berea	25.2	21.8	18.9	22.7	14.1	21.4	20.9	24.4
Maseru	29.9	25.5	26.4	26.0	26.1	24.4	25.7	28.6
Mafeteng	25.8	22.8	27.4	22.3	29.1	24.3	25.3	25.7
Mohale's Hoek	20.9	28.1	24.4	27.6	26.1	24.9	26.8	21.9
Quthing	25.7	25.7	21.5	24.4	21.4	23.4	23.3	25.4
Qasha's Nek	25.2	29.3	30.6	24.9	32.4	35.3	29.6	25.7
Mokhotlong	20.6	24.2	16.8	22.6	13.0	26.8	21.8	20.8
Thaba-Tseka	20.5	18.0	24.3	20.8	14.8	19.2	19.7	20.4
Total	26.4	25.2	24.5	25.7	23.8	23.7	25.0	26.1
Number	3,032	518	208	453	110	163	726	3,758

* Significant at 5%

Appendix J: Malawi

Table J1. HIV response rates by selected background characteristics and sex, Malawi 2004

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	761	59.8	835	65.3
20-24	690	61.6	979	70.6
25-29	710	64.5	744	70.8
30-34	557	63.7	532	72.9
35-39	333	67.0	403	68.7
40-44	335	68.1	323	75.9
45-49	207	61.8	255	74.9
50-54	204	64.7	n/a	n/a
Education				
No education	467	56.8	1,048	66.9
Primary 1-4	963	60.4	1,064	70.9
Primary 5-8	1,777	68.7	1,411	72.6
Secondary +	587	57.4	548	70.1
Wealth status				
Lowest	509	58.9	718	69.5
Second	765	64.6	817	70.8
Middle	865	67.2	894	72.2
Fourth	851	67.3	875	72.1
Highest	807	56.5	767	66.6
Residence				
Urban	632	55.7	571	65.3
Rural	3,165	64.8	3,500	71.2
Region				
Northern	515	76.5	572	78.3
Central	1,424	61.7	1,478	66.0
Southern	1,858	60.9	2,021	71.3
Total	3,797	63.3	4,071	70.4

Table J2. Non-response rates by selected background characteristics and sex, Malawi 2004

Characteristic	Male				Female			
	Non-response rate	Reasons for non response			Non-response rate	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age								
15-19	40.2	29.0	7.4	3.8	34.7	27.1	4.2	3.5
20-24	38.4	26.7	10.1	1.6	29.4	25.3	1.9	2.2
25-29	35.5	23.4	10.0	2.1	29.2	23.7	2.6	3.0
30-34	36.3	22.6	11.5	2.2	27.1	21.6	2.1	3.4
35-39	33.0	20.7	9.9	2.4	31.3	25.6	2.5	3.2
40-44	31.9	21.2	7.2	3.6	24.2	18.9	1.6	3.7
45-49	38.2	25.6	9.2	3.4	25.1	19.2	1.6	4.3
50-54	35.3	21.6	8.3	5.4	n/a	n/a	n/a	n/a
Education								
No education	43.3	27.6	8.8	6.9	33.1	25.2	2.7	5.3
Primary 1-4	39.6	27.8	8.2	3.5	29.1	24.7	2.2	2.3
Primary 5-8	31.3	22.5	7.3	1.6	27.4	22.3	2.2	2.9
Secondary +	42.6	23.5	17.4	1.7	29.9	25.0	3.8	1.1
Wealth status								
Lowest	41.1	27.3	11.0	2.8	30.5	24.9	2.5	3.1
Second	35.4	24.1	7.8	3.5	29.3	23.9	2.3	3.1
Middle	32.8	22.4	7.3	3.1	27.9	21.4	2.5	4.0
Fourth	32.7	21.0	8.9	2.7	27.9	22.7	1.9	3.2
Highest	43.5	29.5	12.3	1.7	33.4	27.9	3.5	2.0
Residence								
Urban	44.3	28.2	14.6	1.6	34.7	28.7	3.0	3.0
Rural	35.2	23.9	8.3	3.0	28.8	23.3	2.5	3.1
Region								
Northern	23.5	13.0	8.5	1.9	21.7	17.1	3.2	1.4
Central	38.3	27.7	7.5	3.0	34.0	27.8	2.5	3.7
Southern	39.1	25.4	10.9	2.8	28.8	23.2	2.4	3.2
Total	36.7	24.6	9.3	2.8	29.7	24.0	2.5	3.1
Number	1,393	934	354	105	1,207	978	103	126

Table J3. Non-response rates by selected risk behaviors and other characteristics and sex, Malawi 2004

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Marital Union								
Never in union	29.3	28.5	0.2	0.6	29.7	28.0	0.0	1.7
In monogamous union	25.1	24.2	0.0	0.8	26.2	24.2	0.4	1.5
In polygynous union	24.2	23.7	0.2	0.4	22.4	20.0	0.0	2.4
Widowed/divorced/separated	25.9	24.1	0.0	1.9	24.7	21.0	0.4	3.3
Child birth in the last 5 years								
No	n/a	n/a	n/a	n/a	27.1	24.9	0.3	1.9
Yes	n/a	n/a	n/a	n/a	25.2	23.0	0.3	1.9
Occupation								
Not working	27.2	26.4	0.1	0.7	27.3	24.9	0.4	2.0
Professional/services	22.6	22.6	0.0	0.0	26.9	23.7	0.6	2.6
Agriculture	28.2	27.3	0.0	0.9	24.3	22.4	0.1	1.7
Manual	25.9	25.0	0.1	0.8	25.4	24.6	0.0	0.8
Regular exposure to media sources per week								
None	28.8	27.6	0.5	0.7	27.8	25.0	0.4	2.4
One source	26.4	25.7	0.1	0.6	24.2	22.5	0.2	1.5
Two sources	23.4	22.5	0.0	0.9	27.0	24.1	0.3	2.7
All three sources	28.4	27.5	0.0	0.9	32.6	31.0	0.0	1.6
Ethnicity								
Chewa	28.3	27.5	0.3	0.5	30.3	28.0	0.3	2.1
Tumbuka	22.7	21.5	0.0	1.2	19.9	18.4	0.5	1.0
Lomwe	25.6	25.2	0.0	0.3	23.9	21.6	0.3	2.0
Tonga	23.9	23.9	0.0	0.0	15.3	15.3	0.0	0.0
Yao	31.6	30.5	0.0	1.1	27.8	24.6	0.5	2.7
Sena	26.3	25.4	0.0	0.9	24.5	22.3	0.0	2.2
Nkonde	7.1	7.1	0.0	0.0	17.7	17.7	0.0	0.0
Ngoni	25.0	23.8	0.0	1.2	25.4	23.4	0.0	2.0
Other	20.5	19.8	0.0	0.8	21.9	20.2	0.3	1.3
Religion								
Catholic	22.3	20.6	0.0	1.6	22.2	20.0	0.5	1.7
CCAP	25.9	25.3	0.2	0.5	27.1	25.9	0.2	1.0
Christian	25.4	25.0	0.1	0.3	25.9	24.0	0.2	1.7
Muslim/Other/No religion	34.3	33.3	0.0	0.9	29.3	25.3	0.3	3.7
Circumcision								
No	25.8	25.1	0.1	0.6	n/a	n/a	n/a	n/a
Yes	27.6	26.5	0.0	1.2	n/a	n/a	n/a	n/a
STI or STI symptom in the last 12 months								
No	26.5	25.7	0.1	0.7	26.0	23.9	0.3	1.7
Yes	22.7	22.1	0.7	0.0	23.6	19.7	0.0	3.9
Smokes cigarettes or uses tobacco								
No	26.5	25.7	0.1	0.7	25.8	23.6	0.3	1.9
Yes	25.4	24.7	0.1	0.6	28.8	27.4	0.0	1.4

(Cont'd)

Table J3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age at first sex								
Never had sex	34.2	33.4	0.3	0.5	31.8	30.0	0.0	1.9
<15	22.9	21.1	0.0	1.9	22.3	20.6	0.3	1.5
15-17	24.5	24.0	0.0	0.5	25.2	23.0	0.5	1.7
18-19	23.2	22.6	0.2	0.4	26.0	23.6	0.1	2.3
20+	29.0	28.0	0.1	0.8	29.0	26.0	0.0	2.9
Number of sex partners in last 12 months								
No sex in last 12 months	30.7	29.8	0.2	0.8	27.6	25.6	0.1	1.9
Had 1 sex partner	25.5	24.8	0.1	0.6	25.4	23.1	0.3	1.9
Had 2+ sex partners	22.5	21.0	0.0	1.6	34.4	31.3	0.0	3.1
Higher risk sex in the last 12 months								
No sex in last 12 months	30.7	29.8	0.2	0.8	27.6	25.6	0.1	1.9
Sex with spouse/cohabiting	24.7	24.0	0.1	0.7	25.5	23.2	0.3	1.9
Sex with other	26.4	25.4	0.2	0.8	25.2	22.8	0.4	2.0
Condom use at last sex in last 12 months								
No sex in last 12 months	30.7	29.8	0.2	0.8	27.6	25.6	0.1	1.9
Had sex and used condom	27.7	26.6	0.0	1.1	18.3	17.6	0.0	0.7
Did not use condom	24.7	24.0	0.1	0.6	25.8	23.4	0.3	2.0
Paid for sex								
No sex	34.2	33.4	0.3	0.5	n/a	n/a	n/a	n/a
Never paid	25.9	25.2	0.1	0.7	n/a	n/a	n/a	n/a
Paid for sex	22.6	21.7	0.0	1.0	n/a	n/a	n/a	n/a
Number of times slept away								
0	27.6	26.8	0.1	0.7	n/a	n/a	n/a	n/a
1-2	25.8	24.9	0.0	0.9	n/a	n/a	n/a	n/a
3-4	20.4	20.1	0.0	0.4	n/a	n/a	n/a	n/a
5+	23.6	22.7	0.0	0.9	n/a	n/a	n/a	n/a
Away from home								
Never	27.6	26.8	0.1	0.7	n/a	n/a	n/a	n/a
Less than 1 month	24.4	23.8	0.0	0.6	n/a	n/a	n/a	n/a
1+ month	23.3	22.2	0.0	1.1	n/a	n/a	n/a	n/a
Participates in 2+ major household decisions (women's empowerment)								
No	n/a	n/a	n/a	n/a	27.0	24.9	0.1	1.9
Yes	n/a	n/a	n/a	n/a	24.1	21.6	0.6	1.9
Number of years living in current residence								
<3 years	28.3	28.0	0.0	0.3	27.1	25.8	0.2	1.1
3-9 years	23.6	23.1	0.0	0.6	23.3	21.1	0.4	1.9
10+ years	26.6	25.6	0.2	0.9	26.5	23.9	0.3	2.3

(Cont'd)

Table J3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Knowledge of ABC prevention methods								
0	36.4	34.6	0.0	1.8	28.4	24.3	0.6	3.5
1	30.3	29.4	0.4	0.4	28.3	25.3	0.2	2.8
2	28.0	27.5	0.0	0.5	25.0	23.1	0.4	1.6
3	24.5	23.6	0.1	0.8	22.7	21.1	0.2	1.4
Attitude to PLHIV (scale)								
Lowest	36.4	36.4	0.0	0.0	32.7	31.8	0.0	0.9
Lower	25.7	25.7	0.0	0.0	28.9	26.4	0.1	2.3
Middle	29.2	28.4	0.4	0.4	23.3	21.6	0.3	1.4
Higher	25.1	24.2	0.1	0.9	25.3	22.9	0.3	2.1
Highest	26.1	25.6	0.0	0.5	n/a	n/a	n/a	n/a
Ability to negotiate safer sex								
0	n/a	n/a	n/a	n/a	32.7	29.8	0.0	2.9
1	n/a	n/a	n/a	n/a	25.6	23.0	0.7	2.0
2	n/a	n/a	n/a	n/a	25.0	23.1	0.2	1.7
Number of injections by a health professional in the last 12 months								
0	26.5	25.9	0.1	0.6	27.1	24.7	0.2	2.2
1-3	24.7	22.6	0.3	1.8	22.4	20.5	0.5	1.4
4+	21.2	21.2	0.0	0.0	26.8	25.8	0.0	1.1
Previously tested								
Never tested	26.9	26.1	0.1	0.7	25.8	23.6	0.3	1.9
Tested, not in last 12months	20.5	20.5	0.0	0.0	30.3	27.3	0.3	2.8
Tested, in last 12 months	25.3	24.1	0.0	1.2	17.0	15.7	0.7	0.7
Total	26.3	25.5	0.1	0.7	25.9	23.7	0.3	1.9
Number	857	831	3	23	1,001	916	11	74

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table J4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Malawi 2004

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.4	0.4	0.3	0.4	0.4	0.2	0.4	0.4
20-24	3.9	4.4	4.6	4.6	4.3	3.1	4.5	4.1
25-29	9.8	10.2	13.7	10.7	13.0	13.3	11.4	10.4
30-34	20.4	20.0	21.4	20.1	22.5	15.2	20.5	20.4
35-39	18.4	24.5	23.2	24.3	23.4	24.2	24.0	20.1
40-44	16.5	15.7	18.3	16.3	19.9	13.0	16.7	16.5
45-49	9.5	9.2	12.5	9.3	13.1	9.8	10.2	9.7
50-54	10.5	7.5	14.6	7.7	16.4	11.7	10.4	10.5
Education								
No education	10.5	10.6	10.5	10.4	10.8	10.8	10.5	10.5
Primary 1-4	6.3	5.5	5.4	5.1	6.1	6.9	5.5	6.0
Primary 5-8	10.7	10.5	11.4	10.6	12.0	9.5	10.8	10.7
Secondary +	14.7	12.1	17.0	12.1	18.6	11.6	14.3	14.6
Wealth status								
Lowest	4.3	4.5	5.2	4.5	5.7	3.9	4.8	4.5
Second	4.7	3.3	4.5	3.2	5.2	3.6	3.7	4.4
Middle	11.9	9.6	10.9	9.2	13.2	10.5	10.2	11.4
Fourth	12.0	9.5	14.4	10.5	14.0	9.3	11.3	11.8
Highest	15.0	14.9	16.5	14.2	18.5	19.2	15.4	15.2
Residence								
Urban	16.4	15.4	17.2	14.5	19.8	21.0	16.1	16.2
Rural	8.9	7.1	9.0	7.2	9.6	7.4	7.8	8.5
Region								
Northern	5.7	6.8	5.6	6.4	6.6	3.6	6.2	5.8
Central	6.2	5.9	6.3	5.7	7.2	6.3	6.0	6.2
Southern	15.2	14.6	16.0	14.3	17.6	13.9	15.2	15.2
Total	10.2	9.5	11.4	9.4	12.7	9.3	10.2	10.2
Number	2,404	857	536	934	354	105	1,393	3,797

Table J5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Malawi 2004

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	3.7	2.9	3.4	3.0	3.3	3.1	3.1	3.5
20-24	13.2	10.7	15.3	11.4	13.7	9.4	11.4	12.6
25-29	15.5	16.7	16.2	15.9	20.4	18.0	16.6	15.9
30-34	18.1	19.4	17.9	19.5	16.5	18.8	19.2	18.4
35-39	17.0	16.3	18.7	16.2	16.4	21.5	16.7	16.9
40-44	17.9	17.6	20.6	17.2	24.6	20.7	18.3	18.0
45-49	13.3	10.5	13.8	11.0	17.9	8.2	10.9	12.7
Education								
No education	13.6	12.1	12.3	11.9	13.4	13.0	12.2	13.1
Primary 1-4	12.3	10.3	10.6	9.5	11.7	18.7	10.4	11.7
Primary 5-8	13.0	12.0	10.8	12.2	9.1	10.8	11.8	12.6
Secondary +	15.7	14.7	18.7	15.2	17.7	15.1	15.5	15.6
Wealth status								
Lowest	10.9	9.9	8.7	9.5	9.5	11.0	9.7	10.5
Second	10.3	9.2	8.6	8.6	11.9	10.3	9.1	9.9
Middle	12.7	10.7	9.1	9.5	9.3	15.7	10.4	12.0
Fourth	14.6	12.3	14.6	12.4	10.6	16.4	12.7	14.1
Highest	18.0	16.3	18.5	16.8	19.4	12.2	16.8	17.5
Residence								
Urban	18.0	15.6	17.9	15.6	20.1	16.9	16.1	17.2
Rural	12.5	11.0	10.8	10.8	11.0	12.3	11.0	12.0
Region								
Northern	10.4	11.4	10.4	11.8	9.9	7.9	11.2	10.6
Central	6.6	7.4	5.8	7.0	5.6	8.9	7.1	6.8
Southern	19.8	18.4	19.3	18.3	20.4	19.2	18.6	19.5
Total	13.3	12.1	12.7	12.0	13.0	13.3	12.2	13.0
Number	2,864	1,001	206	978	103	126	1,207	4,071

Appendix K: Rwanda

Table K1. HIV response rates by selected background characteristics and sex, Rwanda 2005

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	1,115	95.8	1,375	96.3
20-24	975	95.6	1,178	96.5
25-29	668	95.5	870	97.1
30-34	536	92.7	824	98.5
35-39	447	95.5	565	96.8
40-44	422	95.0	560	98.9
45-49	384	97.9	465	98.5
50-54	263	98.5	n/a	n/a
55-59	149	96.6	n/a	n/a
Education				
No education	852	95.5	1,311	97.2
Primary	3,428	96.7	3,867	97.7
Secondary +	676	90.8	658	94.8
Wealth status				
Lowest	838	97.9	1,178	98.0
Second	845	96.5	1,138	98.5
Middle	951	96.7	1,031	97.6
Fourth	1,031	97.4	1,156	97.8
Highest	1,294	91.4	1,334	94.9
Residence				
Urban	1,183	91.0	1,339	95.8
Rural	3,776	97.1	4,498	97.7
Region				
City of Kigali	659	87.3	687	94.2
South	1,180	96.7	1,431	98.4
West	1,274	95.8	1,533	96.2
North	769	96.6	938	96.7
East	1,077	98.7	1,248	99.4
Total	4,959	95.6	5,837	97.3

Table K2. Non-response rates by selected background characteristics and sex, Rwanda 2005

Characteristic	Male				Female				
	Non-response rate	Reasons for non response			Non-response rate	Reasons for non response			
		Refused	Absent	Other/missing		Refused	Absent	Other/missing	
Age									
15-19	4.2	0.3	3.3	0.6	3.7	0.2	3.1	0.4	
20-24	4.4	0.3	3.1	1.0	3.5	0.4	2.6	0.5	
25-29	4.5	0.6	3.4	0.5	2.9	0.3	2.1	0.5	
30-34	7.3	0.9	5.6	0.8	1.5	0.2	1.0	0.2	
35-39	4.5	0.2	3.1	1.1	3.2	0.4	2.5	0.4	
40-44	5.0	0.7	3.6	0.7	1.1	0.2	0.4	0.5	
45-49	2.1	0.0	1.3	0.8	1.5	0.0	0.9	0.7	
50-54	1.5	0.0	0.8	0.8	n/a	n/a	n/a	n/a	
55-59	3.4	0.0	3.4	0.0	n/a	n/a	n/a	n/a	
Education									
No education	4.5	0.0	2.1	2.4	2.8	0.2	1.8	0.8	
Primary	3.3	0.4	2.6	0.4	2.3	0.2	1.8	0.3	
Secondary +	9.2	0.9	7.7	0.6	5.2	0.6	3.8	0.8	
Wealth status									
Lowest	2.2	0.1	1.6	0.5	2.0	0.2	1.3	0.6	
Second	3.6	0.2	2.1	1.2	1.5	0.1	1.2	0.2	
Middle	3.3	0.5	2.0	0.7	2.4	0.1	1.8	0.5	
Fourth	2.6	0.2	2.1	0.3	2.3	0.2	1.6	0.5	
Highest	8.6	0.7	6.9	1.0	5.1	0.8	3.9	0.5	
Residence									
Urban	9.0	0.8	7.4	0.9	4.2	0.6	3.1	0.5	
Rural	2.9	0.3	2.0	0.7	2.3	0.2	1.7	0.4	
Region									
City of Kigali	12.8	0.9	10.5	1.4	5.8	0.9	4.1	0.9	
South	3.3	0.3	2.0	1.1	1.6	0.1	1.3	0.2	
West	4.2	0.2	3.5	0.6	3.8	0.1	2.9	0.7	
North	3.4	0.7	2.0	0.8	3.3	0.3	2.5	0.5	
East	1.3	0.2	0.9	0.2	0.6	0.2	0.3	0.1	
Total	4.4	0.4	3.3	0.8	2.7	0.3	2.0	0.5	
Number	217	19	161	37	160	16	118	26	

Table K3. Non-response rates by selected risk behaviors and other characteristics and sex, Rwanda 2005

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Marital Union								
Never in union	1.9	0.2	1.7	0.1	1.4	0.2	1.0	0.2
In monogamous union	1.8	0.2	1.5	0.1	1.0	0.1	0.8	0.1
In polygynous union	1.5	0.0	1.5	0.0	0.9	0.0	0.9	0.0
Widowed	2.8	0.0	0.0	2.8	2.2	0.0	2.2	0.0
Divorced/separated	4.4	2.2	2.2	0.0	0.6	0.0	0.4	0.2
Child birth in the last 5 years								
No	n/a	n/a	n/a	n/a	1.3	0.2	1.0	0.1
Yes	n/a	n/a	n/a	n/a	1.0	0.1	0.8	0.1
Occupation								
Not working	1.8	0.3	1.4	0.1	1.5	0.1	1.3	0.1
Professional/services	5.0	0.5	4.5	0.0	3.5	0.5	2.5	0.5
Agriculture	0.8	0.1	0.6	0.1	0.6	0.1	0.4	0.1
Manual	3.0	0.0	2.7	0.3	2.7	0.8	2.0	0.0
Regular exposure to media sources per week								
None	1.8	0.2	1.6	0.0	1.3	0.2	1.0	0.2
One source	1.1	0.1	0.9	0.1	0.9	0.1	0.8	0.0
Two sources	3.6	0.3	3.2	0.0	1.4	0.2	1.2	0.0
All three sources	8.0	0.8	6.1	1.2	2.9	1.0	1.0	1.0
Religion								
Catholic	1.5	0.2	1.2	0.1	1.0	0.2	0.7	0.2
Protestant	2.1	0.3	1.6	0.1	1.3	0.2	0.9	0.1
Adventist	2.1	0.0	2.1	0.0	1.4	0.0	1.4	0.0
Moslem//Other	4.3	0.0	4.3	0.0	0.5	0.0	0.5	0.0
Circumcision								
No	1.5	0.2	1.2	0.1	n/a	n/a	n/a	n/a
Yes	4.9	0.4	4.5	0.0	n/a	n/a	n/a	n/a
STI or STI symptom in the last 12 months								
No	1.9	0.2	1.6	0.1	1.1	0.1	0.9	0.1
Yes	2.1	0.0	2.1	0.0	1.8	0.5	1.4	0.0
Ever Used alcohol								
Never	2.6	0.1	2.5	0.0	n/a	n/a	n/a	n/a
More than 3 month ago	2.4	0.5	1.8	0.1	n/a	n/a	n/a	n/a
In the last 3 months	1.5	0.2	1.2	0.1	n/a	n/a	n/a	n/a
Smokes cigarettes or uses tobacco								
No	2.1	0.3	1.7	0.1	1.2	0.2	0.9	0.1
Yes	1.4	0.0	1.3	0.1	0.0	0.0	0.0	0.0

(Cont'd)

Table K3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age at first sex								
Never had sex	1.8	0.2	1.4	0.2	1.6	0.2	1.2	0.2
<15	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0
15-17	2.1	0.1	2.0	0.0	0.1	0.0	0.0	0.1
18-19	2.2	0.3	1.8	0.1	0.8	0.1	0.7	0.0
20+	2.2	0.2	1.8	0.1	1.6	0.2	1.3	0.2
Number of sex partners in the lifetime								
Never had sex	1.8	0.2	1.5	0.2	1.6	0.2	1.2	0.2
Had 1 partner	1.5	0.2	1.2	0.0	1.1	0.2	0.8	0.1
Had 2+ sex partners	1.8	0.1	1.6	0.1	0.7	0.0	0.6	0.1
Had 3+ sex partners	2.4	0.2	2.0	0.2	0.6	0.0	0.6	0.0
Number of sex partners in last 12 months								
No sex in last 12 months	1.9	0.2	1.5	0.2	1.3	0.1	1.0	0.1
Had 1 partner	2.0	0.2	1.8	0.1	1.0	0.1	0.8	0.1
Had 2+ sex partners	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0
Higher risk sex in the last 12 months								
No sex in last 12 months	1.9	0.2	1.5	0.2	1.3	0.1	1.0	0.1
Sex with spouse/cohabiting	1.7	0.2	1.5	0.1	1.0	0.1	0.8	0.1
Sex with other	2.8	0.0	2.8	0.0	0.7	0.4	0.0	0.4
Condom use at last sex in last 12 months								
No sex in last 12 months	1.9	0.2	1.5	0.2	1.3	0.1	1.0	0.1
Had sex and used condom	3.0	0.0	2.4	0.6	2.9	1.0	0.0	1.9
Did not use condom	1.9	0.2	1.7	0.0	0.9	0.1	0.8	0.0
Paid sex in last 12 months								
Never had sex	1.8	0.2	1.4	0.2	n/a	n/a	n/a	n/a
Never paid	1.9	0.2	1.6	0.1	n/a	n/a	n/a	n/a
Ever paid for sex	3.5	0.4	2.6	0.4	n/a	n/a	n/a	n/a
Number of times slept away								
0	1.9	0.2	1.6	0.1	n/a	n/a	n/a	n/a
1-2	1.0	0.0	1.0	0.0	n/a	n/a	n/a	n/a
3-4	2.6	0.4	1.9	0.4	n/a	n/a	n/a	n/a
5+	2.9	0.4	2.5	0.0	n/a	n/a	n/a	n/a
Away from home								
Never	1.9	0.2	1.6	0.1	n/a	n/a	n/a	n/a
Less than 1 month	1.9	0.3	1.6	0.0	n/a	n/a	n/a	n/a
1+ month	1.9	0.0	1.6	0.3	n/a	n/a	n/a	n/a
Participates in 2+ major household decisions (women's empowerment)								
No	n/a	n/a	n/a	n/a	1.3	0.2	1.0	0.2
Yes	n/a	n/a	n/a	n/a	1.0	0.1	0.8	0.1

(Cont'd)

Table K3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Number of years in current residence								
<3	4.1	0.0	3.8	0.4	2.5	0.3	2.0	0.1
3-9	3.3	0.5	2.7	0.0	1.3	0.2	0.9	0.2
10+	1.3	0.2	1.0	0.1	0.8	0.1	0.6	0.1
Knowledge of ABC prevention methods								
0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0
1	2.9	0.4	2.6	0.0	2.9	0.4	2.3	0.2
2	2.9	0.1	2.6	0.2	1.2	0.2	0.9	0.2
3	1.6	0.2	1.3	0.1	0.9	0.1	0.7	0.1
Attitude to PLHIV (scale)								
Lowest	6.7	0.0	6.7	0.0	4.1	0.0	2.7	1.4
Lower	3.1	0.0	2.6	0.5	2.0	0.0	2.0	0.0
Middle	1.2	0.2	1.0	0.0	1.8	0.4	1.4	0.0
Higher	2.8	0.3	2.3	0.2	0.8	0.0	0.7	0.1
Highest	1.4	0.2	1.1	0.0	1.0	0.2	0.7	0.2
Ability to negotiate safer sex								
0	3.6	0.0	3.6	0.0	2.6	0.0	2.2	0.4
1	1.8	0.2	1.5	0.1	1.5	0.1	1.3	0.1
2	n/a	n/a	n/a	n/a	1.0	0.2	0.8	0.1
Number of injections in the last 12 months: professionals								
0	1.9	0.2	1.6	0.1	1.2	0.2	0.9	0.1
1-3	2.3	0.4	1.5	0.4	0.9	0.0	0.9	0.0
4+	1.7	0.6	1.1	0.0	1.0	0.0	1.0	0.0
Alcohol use during sex								
No sex in last 12 m	1.9	0.2	1.5	0.2	1.3	0.1	1.0	0.1
Not use before last sex	1.9	0.2	1.7	0.0	1.1	0.2	0.8	0.1
Used (either/both)	0.8	0.0	0.4	0.4	0.4	0.0	0.4	0.0
Previously tested								
Never tested	1.4	0.2	1.1	0.1	1.0	0.1	0.8	0.1
Tested, not in last 12m	4.1	0.2	3.9	0.0	2.4	0.3	1.9	0.2
Tested, in last 12 m	3.2	0.3	2.7	0.2	0.8	0.0	0.5	0.3
Total	1.9	0.2	1.6	0.1	1.2	0.1	0.9	0.1
Number	92	10	77	5	66	8	51	7

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table K4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Rwanda 2005

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.4	0.3	0.4	0.3	0.4	0.2	0.4	0.4
20-24	0.5	0.3	0.5	0.2	0.4	0.5	0.4	0.5
25-29	1.9	6.0	2.7	2.2	3.2	11.3	4.1	2.0
30-34	4.0	4.8	5.2	8.0	4.6	3.8	5.0	4.0
35-39	2.5	4.2	3.6	6.9	3.5	4.6	3.8	2.6
40-44	8.0	6.5	10.0	8.2	10.0	8.6	9.4	8.0
45-49	4.7	3.3	6.8	-	6.0	4.3	5.3	4.7
50-54	1.7	3.9	1.3	-	7.7	1.3	3.2	1.8
55-59	0.8	0.5	1.8	-	1.2	-	1.2	0.8
Education								
No education	2.7	0.8	3.2	-	4.0	1.9	2.8	2.7
Primary	1.8	2.5	1.8	3.9	1.5	3.9	2.1	1.8
Secondary +	4.1	4.3	7.5	5.9	5.4	8.1	5.7	4.2 *
Wealth status								
Lowest	1.3	0.6	0.5	0.5	0.6	0.5	0.6	1.3
Second	1.5	1.6	1.2	5.0	0.4	1.6	1.2	1.5
Middle	1.9	2.8	2.6	2.5	3.1	1.7	2.7	1.9
Fourth	2.1	0.9	3.7	6.7	2.0	2.4	2.5	2.1
Highest	4.1	4.1	5.2	5.4	4.1	6.7	4.6	4.1
Residence								
Urban	5.6	4.6	6.5	8.3	4.6	9.3	5.5	5.6
Rural	1.5	1.0	1.8	2.2	1.6	1.5	1.6	1.5
Region								
City of Kigali	4.9	4.1	7.2	5.0	4.7	9.5	5.4	4.9
South	1.8	4.5	2.2	10.7	2.4	1.8	2.9	1.9 *
West	2.3	0.7	2.8	3.2	1.9	2.0	2.0	2.3
North	1.2	2.4	0.5	1.1	1.0	0.2	0.8	1.2
East	2.2	1.9	2.5	4.0	1.9	2.2	2.3	2.2
Total	2.2	3.0	3.2	4.4	2.9	3.3	3.1	2.3 *
Number	4,742	92	125	19	161	37	217	4,959

* Significant at 5%

Table K5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Rwanda 2005

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible	
		Interview status		Reason not tested					
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing			
Age									
15-19	0.7	0.7	0.5	0.6	0.6	0.5	0.6	0.7	
20-24	2.5	2.9	2.6	4.6	2.4	2.7	2.7	2.5	
25-29	3.3	8.2	3.9	2.8	7.2	5.8	6.4	3.4	
30-34	5.9	6.8	10.8	16.2	5.1	19.0	8.2	5.9	
35-39	6.8	15.9	13.1	7.9	15.4	16.0	14.7	7.1	
40-44	6.5	-	13.9	19.4	17.8	8.3	13.9	*	6.5
45-49	4.1	-	5.2	-	7.2	3.1	5.2		4.1
Education									
No education	3.3	3.0	2.7	1.2	2.6	4.1	2.8		3.3
Primary	3.3	2.7	2.7	4.7	2.4	2.4	2.7		3.3
Secondary +	6.7	16.6	10.4	14.9	13.5	13.2	13.6	*	7.0
Wealth status									
Lowest	2.6	0.4	1.2	0.9	0.8	1.7	1.0	*	2.5
Second	2.2	1.1	0.9	0.4	0.9	1.8	0.9	*	2.2
Middle	3.6	3.2	2.5	0.8	2.8	3.1	2.8		3.6
Fourth	3.4	3.5	2.3	2.7	2.4	3.7	2.7		3.3
Highest	6.5	8.9	9.5	8.6	8.9	13.3	9.2		6.7
Residence									
Urban	8.6	10.1	11.8	12.7	9.7	18.3	10.9		8.7
Rural	2.6	3.4	1.6	1.2	2.4	2.3	2.3		2.6
Region									
City of Kigali	8.0	13.4	11.7	16.3	11.6	14.3	12.5		8.2
South	3.1	2.7	1.7	2.7	1.6	4.0	2.1		3.1
West	3.7	2.3	2.9	3.9	2.5	3.1	2.7		3.7
North	2.6	1.7	1.4	1.2	1.6	1.2	1.5		2.5
East	2.9	9.6	1.5	0.5	13.8	1.3	7.3		3.0
Total	3.6	5.7	3.8	5.2	4.5	4.8	4.6		3.6
Number	5,677	66	94	16	118	26	160		5,837

* Significant at 5%

Appendix L: Tanzania

Table L1. HIV Response rates by selected background characteristics and sex, Tanzania 2003-04

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	1,481	76.8	1,556	80.9
20-24	1,097	76.5	1,431	82.8
25-29	1,024	76.4	1,319	84.0
30-34	884	76.6	1,034	84.3
35-39	752	77.4	798	86.0
40-44	536	76.1	568	85.0
45-49	422	82.7	448	84.8
Education				
No education	713	74.9	1,629	83.3
Primary incomplete	1,231	81.2	1,143	85.6
Primary complete	3,618	77.5	3,828	83.8
Secondary +	632	69.2	550	78.2
Wealth status				
Lowest	1,087	82.3	1,394	86.2
Second	1,250	82.1	1,379	84.8
Middle	1,150	82.3	1,310	85.7
Fourth	1,306	77.6	1,421	84.5
Highest	1,403	63.7	1,650	77.6
Residence				
Urban	1,696	65.0	2,011	77.0
Rural	4,500	81.6	5,143	86.0
Region ¹				
Region I	1,350	77.3	1,622	84.3
Region II	1,287	68.4	1,477	80.2
Region III	1,073	80.2	1,258	87.8
Region IV	1,152	87.6	1,320	91.1
Region V	1,334	73.5	1,477	75.5
Total	6,196	77.1	7,154	83.5

¹ Region I includes: Dodoma, Arusha, Killimanjaro, Tanga, and Manyara; Region II includes: Pwani, Dar es Salam, Lindi, and Mtwara; Region III includes: Morogoro, Ruvuma, Iringa, and Mbeya; Region IV includes: Singida, Tabora, Rukwa, and Kigoma; and Region V includes: Shinyanga, Kagera, Mwanza, and Mara

Table L2. Non-response rates by selected background characteristics and sex, Tanzania 2003-04

Characteristic	Male				Female			
	Non-response rate	Reasons for non response			Non-response rate	Reasons for non response		
		Refused	Not interviewed	Technical problem/ other		Refused	Not interviewed	Technical problem/ other
Age								
15-19	23.2	15.4	6.8	1.1	19.1	14.2	4.0	0.9
20-24	23.5	15.0	7.3	1.2	17.2	13.8	2.5	0.9
25-29	23.6	14.6	8.4	0.7	16.0	12.9	2.4	0.8
30-34	23.4	16.0	6.6	0.9	15.7	12.5	2.4	0.8
35-39	22.6	14.4	7.1	1.2	14.0	11.0	2.4	0.6
40-44	23.9	15.7	6.9	1.3	15.0	11.1	3.0	0.9
45-49	17.3	11.6	4.5	1.2	15.2	11.8	2.2	1.1
Education								
No education	25.1	14.6	7.2	3.4	16.7	11.9	3.0	1.8
Primary incomplete	18.9	12.8	4.6	1.4	14.4	11.5	2.0	1.0
Primary complete	22.5	14.4	7.5	0.6	16.2	12.8	2.9	0.5
Secondary +	30.9	22.2	8.1	0.6	21.8	19.1	2.7	0.0
Wealth status								
Lowest	17.7	9.1	7.3	1.3	13.9	10.3	2.3	1.2
Second	17.9	11.5	5.5	0.9	15.2	11.2	3.3	0.7
Middle	17.7	11.8	4.6	1.3	14.3	9.5	3.7	1.1
Fourth	22.4	14.7	6.4	1.2	15.6	12.7	2.2	0.6
Highest	36.4	25.2	10.6	0.6	22.4	19.2	2.6	0.7
Residence								
Urban	35.0	23.7	10.6	0.8	23.0	19.3	2.9	0.8
Rural	18.4	11.6	5.6	1.2	14.0	10.4	2.7	0.9
Region ¹								
Region I	22.7	13.4	7.9	1.4	15.7	12.0	2.9	0.8
Region II	31.6	21.7	8.6	1.3	19.8	16.7	2.2	1.0
Region III	19.8	13.3	6.0	0.5	12.2	8.4	3.1	0.6
Region IV	12.4	7.7	3.9	0.8	8.9	5.8	2.7	0.5
Region V	26.5	17.4	8.0	1.1	24.5	20.2	3.1	1.3
Total	23.0	14.9	7.0	1.1	16.5	12.9	2.8	0.8
Number	1,422	924	433	65	1,181	922	199	60

¹ See Table L1

Table L3. Non-response rates by selected risk behaviors and other characteristics and sex, Tanzania 2003-04

Characteristic	Male			Female		
	Non-response rate ¹	Reasons for non response		Non-response rate ¹	Reasons for non response	
		Refused	Technical problem/ other		Refused	Technical problem/ other
Marital Union						
Never in union	16.7	16.1	0.6	15.2	15.0	0.2
In monogamous union	14.9	14.6	0.3	11.9	11.7	0.2
In polygynous union	14.3	13.7	0.7	11.2	10.7	0.5
Formally married	15.8	15.8	0.0	14.5	14.3	0.3
Child birth in the last 5 years						
No	n/a	n/a	n/a	15.0	14.7	0.2
Yes	n/a	n/a	n/a	11.4	11.3	0.2
Occupation						
Not working	18.0	17.5	0.5	16.2	16.2	0.0
Professional/services	23.9	23.8	0.1	16.7	16.5	0.2
Agriculture	11.3	10.9	0.4	10.7	10.5	0.2
Manual	22.9	22.1	0.8	16.6	16.1	0.5
Regular exposure to media sources per week						
None	15.0	14.5	0.5	12.6	12.5	0.1
One source	12.0	11.6	0.4	11.0	10.7	0.3
Two sources	17.5	17.0	0.5	16.0	15.7	0.3
All three sources	23.4	23.2	0.2	18.4	18.4	0.0
Religion						
Moslem	16.8	16.4	0.3	12.6	12.5	0.1
Catholic	13.1	12.6	0.5	10.2	10.0	0.1
Protestant	15.3	14.8	0.5	12.7	12.4	0.3
None/Other	21.2	21.0	0.2	25.9	25.7	0.2
Circumcision						
No	12.3	11.8	0.5	n/a	n/a	n/a
Yes	16.9	16.5	0.4	n/a	n/a	n/a
STI or STI symptom in the last 12 months						
No	16.1	15.7	0.4	13.3	13.1	0.2
Yes	7.7	7.7	0.0	6.9	6.9	0.0
Age at first sex						
Never had sex	17.5	16.9	0.6	15.1	14.8	0.2
<15	13.6	13.4	0.2	13.5	13.3	0.2
15-17	14.5	14.1	0.4	12.2	12.0	0.2
18-19	15.3	14.7	0.6	12.6	12.4	0.2
20+	16.4	16.1	0.2	13.4	13.3	0.1
Number of lifetime sex partners						
0	17.5	16.9	0.6	15.1	14.8	0.2
1	16.1	15.9	0.3	14.1	13.8	0.2
2	15.4	15.2	0.3	13.8	13.7	0.1
3+	14.3	13.8	0.4	9.9	9.7	0.2

(Cont'd)

Table L3 - Continued

Characteristic	Male			Female		
	Non-response rate ¹	Reasons for non response		Non-response rate ¹	Reasons for non response	
		Refused	Technical problem/ other		Refused	Technical problem/ other
Number of sex partners in last 12 months						
No sex in last 12 m	16.5	15.9	0.5	16.1	15.9	0.2
Had 1 sex partner	15.8	15.5	0.3	12.3	12.1	0.2
Had 2+ sex partners	13.9	13.5	0.5	8.9	8.6	0.3
Higher risk sex in the last 12 months						
No sex in last 12 m	16.5	15.9	0.5	16.1	15.9	0.2
Sex with spouse/cohabiting	15.6	15.3	0.4	11.9	11.7	0.2
Sex with other	14.9	14.5	0.4	12.5	12.2	0.3
Condom use at last sex in last 12 months						
No sex in last 12 m	16.5	15.9	0.5	16.1	15.9	0.2
Had sex and used condom	18.2	17.8	0.4	16.3	16.1	0.2
Did not use condom	14.5	14.2	0.4	11.5	11.4	0.2
Paid for sex						
No sex	16.5	15.9	0.5	n/a	n/a	n/a
Never paid	15.2	14.9	0.4	n/a	n/a	n/a
Paid for sex	17.9	17.9	0.0	n/a	n/a	n/a
Perceived risk of getting AIDS						
No risk	17.7	17.3	0.4	15.3	15.1	0.1
Small	13.9	13.4	0.5	9.7	9.5	0.2
Moderate	13.7	13.5	0.1	10.7	10.3	0.4
High	10.7	10.2	0.5	9.7	9.5	0.2
Number of years living in current residence						
<3 years	19.3	18.8	0.5	15.7	15.6	0.1
3-9 years	17.7	17.3	0.5	13.6	13.3	0.3
10+ years	14.0	13.6	0.4	11.4	11.3	0.2
Knowledge of ABC prevention methods						
0	24.6	23.9	0.8	27.3	27.3	0.0
1	15.6	15.6	0.0	17.8	17.6	0.2
2	18.1	17.6	0.5	13.8	13.4	0.4
3	14.3	13.9	0.4	11.1	11.0	0.1
Attitude to PLHIV (scale)						
Lowest	27.7	25.6	2.2	15.0	15.0	0.0
Lower	20.3	19.5	0.8	15.5	15.5	0.0
Middle	13.2	13.1	0.2	13.2	12.9	0.3
Higher	14.5	14.2	0.3	11.5	11.2	0.3
Highest	16.0	15.5	0.4	13.0	12.9	0.1
Ability to negotiate safer sex						
0	19.1	18.4	0.6	17.7	17.6	0.1
1	18.9	18.6	0.3	14.0	13.7	0.3
2	14.1	13.7	0.4	11.6	11.4	0.2

(Cont'd)

Table L3 - Continued

Characteristic	Male			Female		
	Non-response rate ¹	Reasons for non response		Non-response rate ¹	Reasons for non response	
		Refused	Technical problem/ other		Refused	Technical problem/ other
Number of injections by a health professional in the last 12 months						
No	15.6	15.2	0.4	13.3	13.1	0.2
Yes	15.6	15.1	0.5	12.5	12.4	0.2
Alcohol use at last sex						
No sex in last 12 m	16.5	15.9	0.5	16.1	15.9	0.2
Not use before last sex	15.2	14.9	0.4	12.4	12.2	0.2
Either used	15.6	15.6	0.0	10.2	9.9	0.3
Both used	15.9	15.2	0.7	10.6	10.1	0.5
Previously tested						
Never tested	15.6	15.1	0.5	12.3	12.1	0.2
Tested, not in last 12m	14.5	14.5	0.0	16.0	15.9	0.2
Tested, in last 12 m	17.3	17.1	0.2	18.2	18.0	0.3
Total	15.6	15.2	0.4	13.0	12.8	0.2
Number	885	862	23	890	877	13

¹ Calculated only for those who were interviewed. Data for these variables are not available for non-interviewed persons.

Table L4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Tanzania 2003-04

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent ¹	Other/missing		
Age								
15-19	2.1	2.2	2.3	2.2	2.3	1.5	2.2	2.1
20-24	4.2	4.5	4.7	4.5	4.8	3.7	4.6	4.3
25-29	6.8	8.4	7.6	8.4	7.6	5.0	8.1	7.1
30-34	8.6	9.1	10.1	9.4	10.2	6.7	9.5	8.8
35-39	9.8	9.3	11.1	9.5	11.9	5.7	10.0	9.8
40-44	12.3	14.9	14.7	14.9	14.8	15.1	14.8	12.9
45-49	6.7	8.9	6.6	9.2	6.6	5.6	8.1	7.0
Education								
No education	4.2	4.6	4.8	4.7	4.7	4.5	4.6	4.3
Primary incomplete	4.8	4.5	4.6	4.5	4.6	5.3	4.5	4.7
Primary complete	7.0	7.8	7.8	7.9	7.8	5.3	7.8	7.1
Secondary +	7.3	7.7	10.7	8.1	10.1	11.2	8.7	7.7
Wealth status								
Lowest	4.1	3.6	3.8	3.4	3.9	4.6	3.7	4.1
Second	4.3	3.4	3.3	3.4	3.1	4.2	3.3	4.1
Middle	4.3	4.4	4.0	4.4	3.9	3.9	4.2	4.3
Fourth	7.7	8.0	8.3	8.1	8.6	5.6	8.1	7.8
Highest	9.4	9.1	10.9	9.3	10.9	9.7	9.7	9.5
Residence								
Urban	9.6	9.2	10.9	9.4	10.9	10.7	9.9	9.7
Rural	4.8	4.8	4.4	4.8	4.4	4.2	4.7	4.8
Region ²								
Region I	4.9	4.4	5.5	4.5	5.9	3.3	4.9	4.9
Region II	7.7	8.1	10.0	8.5	9.9	5.5	8.8	8.0
Region III	9.2	10.9	9.2	10.7	8.8	18.8	10.3	9.4
Region IV	3.6	4.7	3.7	4.5	3.6	5.1	4.2	3.7
Region V	5.4	5.1	6.5	5.2	6.5	4.0	5.6	5.4
Total	6.3	6.8	7.4	7.0	7.4	5.4	7.0	6.4
Number	4,774	885	537	924	433	65	1,422	6,196

*Significant at 5%

¹ Same as not interviewed

² See Table L1

Table L5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Tanzania 2003-04

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent ¹	Other/missing		
Age								
15-19	2.1	2.0	1.8	2.0	1.8	2.1	1.9	2.1
20-24	6.0	7.1	5.7	7.1	5.5	4.9	6.8	6.2
25-29	9.4	11.2	9.0	11.3	8.4	9.2	10.7	9.7
30-34	12.9	13.1	15.0	13.2	14.9	14.1	13.5	13.0
35-39	11.6	12.0	12.5	11.6	14.5	10.4	12.1	11.7
40-44	9.8	13.6	10.4	13.7	10.3	8.1	12.7	10.2
45-49	5.8	6.7	5.9	7.1	6.3	1.9	6.5	5.9
Education								
No education	5.8	6.6	4.9	6.6	4.6	5.0	6.1	5.9
Primary incomplete	5.8	6.9	4.7	6.8	4.5	5.3	6.4	5.9
Primary complete	8.8	9.8	8.9	9.8	8.5	10.4	9.6	8.9
Secondary +	9.3	7.0	10.3	7.0	12.4		7.6	8.9
Wealth status								
Lowest	2.8	2.5	2.4	2.5	2.4	2.3	2.5	2.7
Second	4.6	3.6	3.5	3.5	3.7	2.9	3.6	4.5
Middle	6.8	6.5	5.3	6.4	5.5	5.6	6.1	6.7
Fourth	10.9	10.7	10.7	10.5	11.7	10.7	10.7	10.9
Highest	11.4	12.2	13.2	12.2	13.5	13.1	12.3	11.6
Residence								
Urban	12.0	12.8	12.7	12.8	13.0	12.3	12.8	12.2
Rural	5.8	4.7	4.4	4.6	4.7	4.6	4.6	* 5.6
Region ²								
Region I	5.6	6.0	4.5	5.9	4.2	5.9	5.5	5.6
Region II	10.1	13.1	11.0	13.1	10.3	9.5	12.8	* 10.7
Region III	10.9	12.7	13.2	12.7	14.1	7.8	12.9	11.2
Region IV	5.6	7.5	4.7	7.0	5.2	2.3	6.2	5.7
Region V	6.1	4.7	5.0	4.7	4.5	6.7	4.7	5.8
Total	7.7	8.4	7.2	8.4	7.3	6.9	8.1	7.8
Number	5,973	890	291	922	199	60	1,181	7,154

* Significant at 5%

¹ Same as not interviewed

² See Table L1

Appendix M: Uganda

Table M1. HIV response rates by selected background characteristics and sex, Uganda 2004-05

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	2,354	81.4	2,356	87.3
20-24	1,456	80.8	2,076	87.2
25-29	1,385	81.5	1,913	89.9
30-34	1,361	84.2	1,520	91.1
35-39	1,017	85.4	1,133	90.0
40-44	863	87.6	898	91.2
45-49	597	87.4	665	92.0
50-54	492	89.4	552	88.8
55-59	380	90.8	341	92.1
Education				
No education	986	83.5	3,096	90.9
Primary incomplete	4,404	86.6	5,062	90.6
Primary complete	1,425	84.2	1,133	90.9
Secondary +	3,075	80.1	2,155	83.3
Wealth quintile				
Lowest	1,784	86.3	2,190	91.0
Second	2,054	87.3	2,362	90.9
Middle	1,737	87.6	2,024	91.1
Fourth	1,779	87.4	2,023	91.0
Highest	2,551	74.0	2,855	84.2
Residence				
Urban	1,852	69.7	2,117	82.2
Rural	8,053	87.0	9,337	90.9
Region				
Central	1,003	85.2	1,055	90.2
Kampala	1,139	65.1	1,295	77.5
East Central	1,031	90.2	1,307	95.1
Eastern	1,019	86.0	1,054	90.3
Northeastern	1,137	86.4	1,401	92.1
North Central	1,094	80.0	1,253	85.4
West Nile	1,391	87.2	1,669	90.8
Western	1,077	89.2	1,175	92.0
Southwest	1,014	85.3	1,245	90.0
Total	9,905	83.8	11,454	89.3

Table M2. Non-response rates by selected background characteristics and sex, Uganda 2004-05

Characteristic	Male				Female			
	Non-response rate	Reasons for non-response			Non-response rate	Reasons for non-response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age								
15-19	18.6	5.7	11.1	1.8	12.7	5.5	5.4	1.9
20-24	19.2	7.0	10.5	1.7	12.8	6.2	4.9	1.7
25-29	18.5	7.2	9.5	1.7	10.1	4.9	3.9	1.3
30-34	15.8	4.8	9.5	1.5	8.9	5.5	2.3	1.1
35-39	14.7	5.2	7.7	1.8	10.0	4.3	4.2	1.5
40-44	12.4	5.1	6.0	1.3	8.8	5.0	1.7	2.1
45-49	12.6	5.5	6.0	1.0	8.0	3.6	3.5	0.9
50-54	10.6	4.7	4.5	1.4	11.2	4.2	5.1	2.0
55-59	9.2	4.0	3.4	1.8	7.9	5.3	1.8	0.9
Education								
No education	16.5	5.2	8.4	2.9	9.1	4.1	3.0	2.0
Primary incomplete	13.4	4.9	7.2	1.4	9.4	4.6	3.4	1.3
Primary complete	15.8	6.1	8.2	1.5	9.1	4.8	3.4	1.0
Secondary +	19.9	6.9	11.4	1.7	16.7	8.1	6.8	1.8
Wealth quintile								
Lowest	13.7	3.3	8.4	2.0	9.0	2.8	4.0	2.2
Second	12.7	4.9	6.4	1.3	9.1	4.7	3.3	1.0
Middle	12.4	5.0	5.9	1.5	8.9	4.3	3.3	1.3
Fourth	12.6	5.2	5.9	1.5	9.1	4.8	2.7	1.6
Highest	26.0	9.1	15.2	1.8	15.8	8.3	5.9	1.6
Residence								
Urban	30.3	10.7	17.4	2.2	17.8	9.3	7.3	1.2
Rural	13.0	4.6	6.9	1.5	9.1	4.3	3.2	1.6
Region								
Central	14.8	7.2	6.1	1.5	9.8	5.6	2.5	1.7
Kampala	34.9	12.1	21.0	1.8	22.6	12.2	8.9	1.5
East Central	9.8	2.9	6.3	0.6	4.9	2.1	2.4	0.4
Eastern	14.0	5.9	7.0	1.2	9.7	6.3	2.2	1.2
Northeastern	13.6	3.6	8.4	1.6	7.9	3.2	3.2	1.5
North Central	20.0	9.3	9.1	1.7	14.6	6.6	6.2	1.8
West Nile	12.8	1.3	8.6	3.0	9.2	1.1	5.5	2.6
Western	10.8	4.2	5.2	1.4	8.0	5.4	1.4	1.3
Southwest	14.7	6.3	6.9	1.5	10.0	5.9	2.6	1.5
Total	16.2	5.8	8.8	1.6	10.7	5.2	4.0	1.6
Number	1,607	570	876	161	1,227	594	456	177

Table M3. Non-response rates by selected risk behaviors and other characteristics and sex, Uganda 2004-05

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Marital Union								
Never in union	7.5	5.4	1.0	1.0	7.2	5.3	0.7	1.2
In monogamous union	6.0	4.4	0.4	1.1	6.6	5.1	0.4	1.1
In polygynous union	5.6	4.0	0.8	0.8	4.5	2.9	0.6	1.0
Widowed/divorced/separated	6.6	5.2	0.1	1.3	4.8	3.3	0.2	1.2
Child birth in the last 5 years								
No	n/a	n/a	n/a	n/a	6.2	4.5	0.5	1.2
Yes	n/a	n/a	n/a	n/a	5.8	4.4	0.4	1.1
Work status								
Not working	6.6	4.4	1.1	1.2	5.9	4.2	0.6	1.0
Professional/services	8.8	7.0	0.4	1.3	10.2	8.1	0.6	1.5
Agriculture	5.0	3.6	0.5	0.8	5.2	3.9	0.3	1.0
Manual	8.2	6.2	0.7	1.3	3.7	2.1	0.4	1.3
Regular exposure to 2+ media sources								
None	6.8	5.1	1.0	0.7	5.0	3.2	0.5	1.3
One source	5.2	3.7	0.6	1.0	5.6	4.2	0.4	0.9
Two sources	7.4	5.4	0.7	1.3	8.5	6.6	0.5	1.4
All three sources	11.3	9.1	0.5	1.6	10.8	8.8	0.6	1.4
Ethnicity								
Baganda	9.1	8.2	0.4	0.4	8.7	7.5	0.5	0.8
Banyankore	5.2	3.9	0.3	1.1	4.8	3.7	0.0	1.1
Iteso	4.0	3.0	0.3	0.7	3.4	1.9	0.8	0.7
Lugbara/Madi	4.8	2.2	0.6	2.1	3.2	0.9	0.4	1.9
Basoga	5.6	4.5	0.7	0.3	6.2	5.2	0.4	0.6
Langi	9.8	8.1	1.1	0.7	10.4	8.0	0.3	2.1
Bakiga	5.8	4.5	0.0	1.3	6.5	5.4	0.0	1.1
Karimojong	8.2	4.0	3.1	1.2	7.6	4.7	1.2	1.7
Acholi	7.4	5.8	0.9	0.7	5.0	3.6	0.5	0.9
Bagisu/Sabiny	5.1	4.6	0.4	0.2	5.4	4.0	0.6	0.8
Alur/Jopadhola	4.6	2.3	0.4	1.9	4.1	2.8	0.3	1.0
Banyara	8.4	6.5	0.8	1.2	6.7	5.0	0.3	1.3
Batoro	9.6	5.4	0.4	3.8	6.9	5.3	0.4	1.2
All others	6.4	4.5	0.8	1.1	5.8	4.4	0.4	1.0
Religion								
Roman Catholic	6.3	4.1	0.9	1.4	5.8	4.0	0.6	1.2
Anglican/Protestant	6.3	4.9	0.5	0.8	6.2	4.6	0.3	1.3
Moslem	7.2	6.1	0.4	0.6	6.0	4.7	0.6	0.7
Other Christian/other	7.9	6.5	0.3	1.1	6.4	5.6	0.2	0.7
Circumcision								
No	6.5	4.7	0.7	1.2	n/a	n/a	n/a	n/a
Yes	6.4	5.2	0.6	0.6	n/a	n/a	n/a	n/a

(Cont'd)

Table M3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
STI or STI symptom in the last 12 months								
No	7.1	5.3	0.7	1.1	7.0	5.2	0.5	1.3
Yes	3.1	2.0	0.2	1.0	3.0	2.1	0.2	0.7
Age at first sex								
Never had sex	7.4	5.3	1.0	1.0	6.3	4.5	0.5	1.3
<15	6.9	5.4	0.4	1.2	5.4	3.8	0.3	1.3
15-17	6.6	4.7	0.9	1.0	5.6	4.1	0.5	1.0
18-19	6.2	4.9	0.4	0.9	6.2	4.8	0.4	1.1
20+	5.7	4.2	0.3	1.2	7.5	5.8	0.6	1.1
Number of lifetime sex partners								
0	7.4	5.3	1.0	1.0	6.3	4.5	0.5	1.3
1	6.8	5.0	0.6	1.3	6.4	4.9	0.4	1.2
2	7.2	5.3	1.0	0.9	5.6	3.8	0.5	1.3
3+	5.6	4.1	0.5	1.0	5.5	4.3	0.5	0.8
Number of sex partners in last 12 months								
No sex in last 12 m	7.0	5.3	0.7	1.1	5.9	4.4	0.4	1.2
Had 1 sex partner	6.8	5.0	0.7	1.1	6.1	4.5	0.5	1.1
Had 2+ sex partners	4.9	3.6	0.5	0.8	5.0	2.7	0.0	2.3
Higher risk sex in the last 12 months								
No sex in last 12 m	7.0	5.3	0.7	1.1	5.9	4.4	0.4	1.2
Sex with spouse/cohabiting	6.1	4.5	0.5	1.1	5.9	4.4	0.4	1.1
Sex with other	6.6	4.8	0.9	0.9	6.7	4.8	0.8	1.1
Condom use at last sex in last 12 months								
No sex in last 12 m	7.0	5.3	0.7	1.1	5.9	4.4	0.4	1.2
Had sex and used condom	8.1	6.0	1.1	1.0	6.5	5.0	0.5	1.1
Did not use condom	6.0	4.4	0.6	1.1	6.0	4.4	0.5	1.1
Number of years living in current residence								
<3 years	9.4	7.3	0.8	1.3	6.9	5.4	0.3	1.1
3-9 years	6.9	5.5	0.3	1.0	5.8	4.4	0.4	1.0
10+ years	5.5	3.8	0.7	1.0	5.6	3.9	0.5	1.2
Knowledge of ABC prevention methods								
0	6.6	4.1	1.3	1.3	5.3	4.0	0.6	0.6
1	7.6	5.2	1.3	1.1	5.4	3.5	0.5	1.5
2	7.1	4.8	0.7	1.5	5.2	3.9	0.3	1.0
3	6.1	4.8	0.5	0.8	6.5	4.9	0.5	1.2

(Cont'd)

Table M3 - Continued

Characteristic	Male				Female			
	Non-response rate ¹	Reasons for non response			Non-response rate ¹	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Attitude to PLHIV (scale)								
Lowest	9.0	4.9	2.0	2.0	7.2	5.9	0.0	1.3
Lower	7.7	5.4	1.2	1.1	5.8	4.4	0.3	1.1
Middle	6.0	4.2	1.1	0.7	6.1	4.3	0.5	1.3
Higher	6.0	4.8	0.3	1.0	6.0	4.6	0.5	0.9
Highest	6.6	4.9	0.5	1.3	5.4	3.8	0.5	1.2
Ability to negotiate safer sex								
0	9.2	5.8	1.9	1.6	6.7	4.8	0.7	1.3
1	7.7	6.0	0.5	1.2	5.9	4.7	0.5	0.8
2	5.8	4.4	0.5	1.0	5.8	4.2	0.4	1.3
Number of injections by a health professional in the last 12 months								
0	7.4	5.5	0.8	1.2	6.4	4.8	0.5	1.1
1-3	5.9	4.3	0.6	1.1	5.9	4.6	0.5	0.8
4+	4.1	3.1	0.3	0.7	5.6	3.8	0.3	1.4
Alcohol use at last sex								
No sex in last 12 m	7.0	5.3	0.7	1.1	5.9	4.4	0.4	1.2
Not use before last sex	6.5	5.0	0.5	1.0	6.7	5.2	0.4	1.1
Either used	6.1	3.8	0.9	1.4	5.0	3.2	0.4	1.4
Both used	5.5	3.8	0.9	0.8	4.4	2.8	0.9	0.8
Previously tested								
Never tested	6.2	4.4	0.7	1.0	5.8	4.2	0.5	1.1
Tested, not in last 12m	8.1	6.9	0.3	0.9	7.5	6.0	0.4	1.2
Tested, in last 12 m	9.8	8.1	0.0	1.8	7.1	5.9	0.4	0.8
Total	6.5	4.8	0.7	1.1	6.0	4.4	0.4	1.1
Number	573	422	58	93	648	479	48	121

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table M4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Uganda 2004-05

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3
20-24	2.4	1.5	2.4	1.9	2.3	1.6	2.1	2.3
25-29	5.9	5.3	6.3	4.9	6.3	7.7	5.9	5.9
30-34	8.1	8.6	8.6	7.5	8.3	13.9	8.6	8.1
35-39	9.2	6.2	10.1	7.0	10.0	8.3	8.6	9.2
40-44	9.3	6.3	9.0	7.5	8.5	5.3	7.8	9.1
45-49	6.9	4.7	6.8	5.8	5.6	7.5	5.9	6.8
50-54	6.9	4.9	6.3	4.7	6.5	7.0	5.7	6.8
55-59	5.8	4.4	5.4	4.8	5.5	3.5	4.8	5.8
Education								
No education	7.2	4.9	5.6	6.1	4.8	5.2	5.3	6.9
Primary incomplete	4.8	4.3	3.1	3.5	3.2	5.7	3.5 *	4.6
Primary complete	6.2	3.0	5.9	4.1	5.5	4.1	4.8	6.0
Secondary +	4.7	3.4	5.3	3.7	5.2	4.9	4.6	4.7
Wealth quintile								
Lowest	4.0	3.1	2.4	3.5	2.3	2.4	2.6 *	3.8
Second	4.6	3.3	4.1	3.5	3.9	3.9	3.8	4.5
Middle	5.3	2.7	4.0	3.2	3.6	3.3	3.4 *	5.0
Fourth	5.7	4.5	4.0	3.4	3.5	10.6	4.2 *	5.5
Highest	5.8	4.7	5.9	4.7	6.0	5.6	5.5	5.8
Residence								
Urban	6.9	6.4	6.6	5.8	6.7	8.2	6.5	6.8
Rural	4.9	3.0	3.7	3.1	3.5	4.1	3.4 *	4.7
Region								
Central	6.5	4.0	6.0	4.3	5.9	4.0	5.0	6.3
Kampala	4.7	3.3	5.5	3.7	5.5	5.6	4.8	4.8
East Central	5.3	2.4	4.8	2.5	5.0	2.1	4.1	5.2
Eastern	4.7	4.1	4.4	4.0	4.3	6.1	4.3	4.6
Northeastern	3.5	1.9	2.8	2.3	2.5	3.1	2.5	3.4
North Central	7.1	4.3	5.0	4.4	4.8	5.4	4.7 *	6.7
West Nile	1.7	1.4	1.7	1.3	1.6	1.8	1.6	1.7
Western	5.9	7.2	5.3	6.3	4.8	10.3	6.1	5.9
Southwest	4.9	3.8	3.7	2.7	3.7	8.8	3.8	4.8
Total	5.2	3.9	4.5	3.9	4.4	5.2	4.3 *	5.0
Number	8,298	573	1,034	570	876	161	1,607	9,905

* Significant at 5%

Table M5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Uganda 2004-05

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	2.6	2.9	2.5	3.0	2.4	2.3	2.7	2.6
20-24	6.3	5.1	7.1	5.3	7.2	5.1	6.0	6.2
25-29	8.7	8.3	9.4	8.6	9.8	6.9	8.8	8.7
30-34	12.1	9.6	14.1	10.6	12.3	11.2	11.1	12.0
35-39	9.9	7.4	10.8	7.6	9.9	9.5	8.8	9.8
40-44	8.4	8.3	8.3	9.1	7.3	6.7	8.3	8.4
45-49	8.2	8.5	8.9	7.3	9.0	14.8	8.7	8.3
50-54	5.4	3.7	5.1	4.5	4.6	3.6	4.3	5.3
55-59	4.9	5.2	5.7	6.0	5.0	1.2	5.3	5.0
Education								
No education	5.5	5.2	4.8	6.0	4.5	3.7	5.0	5.5
Primary incomplete	7.6	6.6	6.1	6.6	5.6	7.5	6.4	* 7.5
Primary complete	9.9	5.5	8.7	6.7	8.1	4.3	6.9	* 9.7
Secondary +	7.5	6.9	9.3	7.0	9.6	6.8	8.1	7.6
Wealth quintile								
Lowest	5.0	4.4	3.3	3.9	3.4	4.6	3.9	4.9
Second	6.5	5.9	4.9	6.4	4.6	4.3	5.6	6.4
Middle	6.3	3.3	5.5	3.9	5.0	4.1	4.3	* 6.1
Fourth	6.9	5.5	6.2	5.7	6.0	5.5	5.8	6.8
Highest	10.8	9.1	10.8	9.1	11.2	9.9	9.9	10.6
Residence								
Urban	12.6	8.8	12.1	9.8	12.0	6.9	10.5	* 12.3
Rural	6.4	5.6	5.1	5.6	4.9	5.8	5.4	* 6.3
Region								
Central	9.8	7.2	9.6	7.6	10.2	5.7	8.0	9.7
Kampala	11.7	7.6	11.8	8.4	11.7	8.8	9.7	11.3
East Central	7.4	5.4	7.9	5.5	7.0	10.9	6.7	7.4
Eastern	5.8	3.2	4.9	3.1	4.6	5.2	3.7	* 5.6
Northeastern	3.6	2.4	2.8	2.5	2.4	3.4	2.6	3.6
North Central	8.7	9.0	7.2	8.9	7.0	9.2	8.1	8.7
West Nile	2.6	2.6	2.3	2.5	2.3	2.4	2.4	2.5
Western	7.7	7.3	6.4	6.9	6.5	7.6	7.0	7.7
Southwest	7.0	5.3	6.2	5.7	6.2	4.8	5.7	6.9
Total	7.3	6.2	7.0	6.6	6.9	5.9	6.6	* 7.2
Number	10,227	648	579	594	456	177	1,227	11,454

* Significant at 5%

Appendix N: Zimbabwe

Table N1. HIV response rates by selected background characteristics and sex, Zimbabwe 2005-06

Characteristic	Male		Female	
	Number eligible for HIV testing	HIV response rate	Number eligible for HIV testing	HIV response rate
Age				
15-19	2,265	71.5	2,349	76.5
20-24	1,751	62.7	2,158	74.8
25-29	1,301	59.6	1,604	76.2
30-34	1,118	58.7	1,332	76.4
35-39	829	57.8	948	75.4
40-44	549	63.6	785	76.2
45-49	529	62.4	694	76.4
50-54	419	59.4	n/a	n/a
Education				
No education	182	47.3	429	75.8
Primary	2,446	69.7	3,212	79.2
Secondary +	6,117	61.6	6,215	74.4
Wealth status				
Lowest	1,415	72.7	1,741	82.2
Second	1,532	73.4	1,710	83.8
Middle	1,505	71.7	1,747	82.4
Fourth	2,229	59.6	2,129	73.7
Highest	2,080	47.8	2,543	63.7
Residence				
Urban	3,421	49.4	3,763	65.1
Rural	5,340	72.4	6,107	82.6
Region				
Manicaland	929	69.2	1,108	77.8
Mashonaland Central	804	58.8	807	72.2
Mashonaland East	692	71.0	778	80.7
Mashonaland West	830	67.7	880	74.4
Mashonaland North	609	67.8	708	80.5
Mashonaland South	567	56.3	698	76.1
Midlands	1,077	82.0	1,185	90.6
Masvingo	852	71.1	1,039	83.9
Harare	1,547	46.4	1,683	62.2
Bulawayo	854	52.3	984	68.3
Total	8,761	63.4	9,870	75.9

Table N2. Non-response rates by selected background characteristics and sex, Zimbabwe 2005-06

Characteristic	Male				Female			
	Non-response rate	Reasons for non response			Non-response rate	Reasons for non response		
		Refused	Absent	Other/missing		Refused	Absent	Other/missing
Age								
15-19	28.5	16.7	9.7	2.2	23.5	14.8	6.5	2.3
20-24	37.3	21.3	13.8	2.2	25.2	16.5	6.6	2.0
25-29	40.4	23.3	14.4	2.8	23.8	14.0	7.8	2.0
30-34	41.3	23.4	15.3	2.7	23.7	15.6	6.5	1.6
35-39	42.2	23.5	15.3	3.4	24.6	15.5	6.1	3.0
40-44	36.4	22.0	11.7	2.7	23.8	16.4	4.6	2.8
45-49	37.6	22.1	10.4	5.1	23.6	14.7	5.2	3.8
50-54	40.6	21.2	16.0	3.3	n/a	n/a	n/a	n/a
Education								
No education	52.8	20.9	8.2	23.6	24.2	11.9	2.6	9.8
Primary	30.3	17.2	10.0	3.2	20.8	13.7	4.7	2.4
Secondary +	38.5	22.5	14.1	1.9	25.6	16.4	7.5	1.7
Wealth status								
Lowest	27.3	15.3	8.8	3.1	17.8	10.3	4.6	2.9
Second	26.6	15.0	8.6	3.1	16.2	10.1	3.8	2.3
Middle	28.3	16.2	9.1	3.0	17.6	10.2	5.5	2.0
Fourth	40.4	24.1	14.0	2.3	26.3	17.3	6.8	2.1
Highest	52.2	29.3	20.5	2.4	36.3	24.1	9.8	2.3
Residence								
Urban	50.6	28.7	19.4	2.5	35.0	23.3	9.2	2.4
Rural	27.6	16.0	8.8	2.8	17.4	10.4	4.7	2.2
Region								
Manicaland	30.8	15.8	12.5	2.5	22.2	15.1	4.4	2.7
Mashonaland Central	41.2	30.2	8.7	2.2	27.8	21.4	4.7	1.6
Mashonaland East	29.1	12.7	12.7	3.6	19.3	7.7	8.9	2.7
Mashonaland West	32.3	14.6	15.9	1.8	25.6	15.5	8.0	2.2
Mashonaland North	32.2	21.8	5.8	4.6	19.5	13.4	2.7	3.4
Mashonaland South	43.7	28.9	12.5	2.3	23.9	14.9	6.5	2.6
Midlands	18.0	7.9	8.3	1.9	9.4	5.5	2.6	1.3
Masvingo	28.9	20.1	6.3	2.5	16.1	10.2	3.8	2.1
Harare	53.6	27.3	23.8	2.5	37.8	23.2	11.9	2.7
Bulawayo	47.7	30.7	12.8	4.2	31.7	22.2	7.7	1.8
Total	36.6	21.0	12.9	2.7	24.1	15.3	6.4	2.3
Number	3,206	1,837	1,132	237	2,376	1,514	636	226

Table N3. Non-response rates by selected risk behaviors and other characteristics and sex, Zimbabwe 2005-06

Characteristic	Male			Female		
	Non-response rate ¹	Reasons for non response		Non-response rate ¹	Reasons for non response	
		Refused	Other/missing		Refused	Other/missing
Marital Union						
Never in union	20.7	19.9	0.8	17.3	16.1	1.2
Currently in monogamous union	24.4	23.6	0.9	14.8	13.9	1.0
Currently in polygynous union	27.9	26.8	1.1	20.0	19.5	0.5
Widowed	21.4	19.4	2.0	15.9	15.3	0.6
Divorced/separated	22.0	20.0	2.0	13.9	12.7	1.2
Child birth in the last 5 years						
No	n/a	n/a	n/a	17.2	16.1	1.1
Yes	n/a	n/a	n/a	14.3	13.4	0.9
Occupation						
Not working	21.6	20.8	0.8	15.3	14.3	1.1
Professional/services	31.3	30.2	1.1	22.1	20.8	1.3
Agriculture	14.2	13.3	0.9	9.9	9.6	0.3
Manual	25.7	24.7	1.0	16.4	15.1	1.3
Regular exposure to media sources per week						
None	18.4	17.5	0.9	12.4	11.4	0.9
One source	19.5	18.5	0.9	15.2	14.6	0.6
Two sources	22.0	21.2	0.8	19.1	17.8	1.3
All three sources	31.8	30.8	1.0	23.1	21.8	1.3
Religion						
Roman Catholic	22.2	21.2	0.9	13.8	12.7	1.1
Protestant	20.7	19.7	1.0	15.7	14.8	1.0
Pentecostal	23.7	22.5	1.2	18.3	16.8	1.5
Apostolic Sect	24.0	23.1	0.9	15.3	14.5	0.8
Other/None	22.3	21.5	0.8	15.8	15.0	0.8
Circumcision						
No	22.7	21.8	0.9	n/a	n/a	n/a
Yes	21.6	20.9	0.7	n/a	n/a	n/a
STI or STI symptom in the last 12 months						
No	22.9	22.1	0.8	16.3	15.3	1.0
Yes	17.7	14.9	2.8	11.1	9.8	1.3
Smokes cigarettes or uses tobacco						
No	23.1	22.3	0.9	15.8	14.8	1.0
Smoke/chew tobacco	20.8	19.8	1.0	19.5	17.1	2.4
Age at first sex						
Never had sex	20.0	19.1	0.9	17.2	15.9	1.2
<15	26.1	24.6	1.4	17.9	17.3	0.7
15-17	20.3	19.2	1.1	14.6	13.5	1.1
18-19	23.8	23.2	0.6	14.0	13.2	0.8
20+	24.8	23.9	0.9	17.8	16.8	1.0

(Cont'd)

Table N3 - Continued

Characteristic	Male			Female		
	Non-response rate ¹	Reasons for non response		Non-response rate ¹	Reasons for non response	
		Refused	Other/missing		Refused	Other/missing
Number of sex partners in life time						
Never had sex	20.0	19.1	0.9	17.2	15.9	1.2
Had 1 partner	26.8	26.0	0.7	16.2	15.3	0.9
Had 2 sex partners	24.2	23.3	1.0	13.5	12.9	0.6
Had 3+ sex partners	21.7	20.8	1.0	15.1	13.5	1.6
Number of sex partners in last 12 months						
No sex in last 12 months	20.6	19.6	1.0	17.1	16.0	1.1
Had 1 partner	24.1	23.2	0.9	15.2	14.3	1.0
Had 2 partners	19.0	18.6	0.4	15.7	14.3	1.4
Had 3+ sex partners	31.3	29.2	2.1	14.3	14.3	0.0
Higher risk sex in the last 12 months						
No sex in last 12 months	20.6	19.6	1.0	17.1	16.0	1.1
Sex with spouse/cohabiting	24.8	24.0	0.9	15.2	14.2	1.0
Sex with other	21.3	20.4	0.8	15.5	14.5	1.0
Condom use at last sex in last 12 months						
No sex in last 12 months	20.6	19.6	1.0	17.1	16.0	1.1
Had sex and used condom	22.1	21.1	1.0	18.8	17.8	1.0
Did not use condom	24.1	23.3	0.8	14.9	13.9	1.0
Paid sex in last 12 months						
Never had sex	20.0	19.1	0.9	n/a	n/a	n/a
No sex in last 12 months	23.4	22.5	0.9	n/a	n/a	n/a
Paid sex in last 12 months	26.2	23.8	2.3	n/a	n/a	n/a
Number of times slept away						
0	21.1	20.2	0.9	n/a	n/a	n/a
1-2	20.2	19.3	0.9	n/a	n/a	n/a
3-4	24.0	23.0	1.0	n/a	n/a	n/a
5+	27.2	26.5	0.7	n/a	n/a	n/a
Away from home						
Never	21.1	20.2	0.9	n/a	n/a	n/a
Less than 1 month	24.4	23.7	0.7	n/a	n/a	n/a
1+ month	22.2	21.0	1.2	n/a	n/a	n/a
Perception risk of HIV infection						
No risk/don't know	21.6	20.9	0.7	17.7	16.7	1.1
Small	24.4	23.5	0.9	12.9	11.9	1.1
Medium	22.1	20.9	1.2	14.5	13.9	0.6
High risk	19.9	18.4	1.5	15.3	13.8	1.4

(Cont'd)

Table N3 - Continued

Characteristic	Male			Female		
	Non-response rate ¹	Reasons for non response		Non-response rate ¹	Reasons for non response	
		Refused	Other/missing		Refused	Other/missing
Participates in 2+ major household decisions						
No	n/a	n/a	n/a	16.5	15.5	1.1
Yes	n/a	n/a	n/a	15.3	14.4	0.9
Number of years in current residence						
<3	23.7	23.2	0.6	17.5	16.6	0.9
3-9	25.2	23.8	1.4	17.1	16.0	1.1
10+	21.9	21.0	0.9	15.2	14.3	1.0
Knowledge of ABC prevention methods						
0	28.2	26.6	1.6	23.5	22.9	0.6
1	22.1	20.1	2.0	16.2	15.4	0.7
2	22.6	21.5	1.1	15.3	14.4	0.9
3	22.4	21.7	0.7	15.3	14.1	1.1
Attitude to PLHIV (scale)						
Lowest	35.9	34.9	0.9	23.6	22.0	1.6
Lower	20.4	19.2	1.2	16.1	15.5	0.6
Middle	21.0	20.3	0.8	15.7	14.9	0.9
Higher	22.4	21.5	0.9	15.8	14.6	1.1
Highest	27.3	26.5	0.8	14.6	13.6	1.0
Ability to negotiate safer sex						
0	16.6	15.0	1.6	19.4	18.6	0.7
1	23.4	22.5	1.0	17.1	15.9	1.2
2	22.9	22.1	0.8	15.1	14.1	1.0
Number of injections in the last 12 months: professionals						
0	22.5	21.7	0.9	16.1	15.1	1.0
1-3	23.2	21.7	1.6	14.4	13.4	1.0
4+	23.4	22.1	1.3	14.9	14.3	0.6
Alcohol use during sex						
No sex in last 12 m	22.6	21.7	0.9	16.1	15.1	1.0
Not use before last sex	4.8	4.8	0.0	8.2	8.2	0.0
Used (either/both)	22.3	21.8	0.5	12.4	11.7	0.7
Previously tested						
Never tested	21.8	20.8	0.9	15.9	15.0	0.9
Tested, not in last 12m	26.0	25.1	0.9	14.5	13.4	1.1
Tested, in last 12 m	26.9	26.3	0.6	18.6	17.2	1.4
Total	22.6	21.7	0.9	15.9	14.9	1.0
Number	1,620	1,555	65	1,413	1,324	89

¹ Calculated only for those who interviewed. Data for these variables are not available for non-interviewed persons

Table N4. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible males, Zimbabwe 2005-06

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	3.1	3.2	3.2	3.1	3.2	3.5	3.2	3.1
20-24	5.8	6.7	6.0	6.4	6.0	8.9	6.4	6.0
25-29	13.0	12.8	13.6	12.7	13.7	14.6	13.2	13.1
30-34	29.5	26.1	30.2	26.9	30.2	29.1	28.3	29.0
35-39	32.1	31.9	32.2	31.3	32.1	37.0	32.1	32.1
40-44	32.9	32.7	32.5	32.6	32.2	33.5	32.6	32.8
45-49	26.0	22.0	26.0	23.0	26.4	23.5	24.0	25.3
50-54	20.0	19.9	20.3	20.0	20.0	20.7	20.1	20.0
Education								
No education	24.2	18.2	21.0	19.2	26.5	18.0	19.9	21.8
Primary	15.7	15.4	16.1	15.3	15.5	18.6	15.7	15.7
Secondary +	14.2	15.2	17.6	15.8	16.8	19.7	16.4	* 15.0
Wealth status								
Lowest	13.7	11.6	12.5	11.4	11.3	17.5	12.0	13.3
Second	15.1	14.9	14.4	15.0	12.5	18.6	14.6	15.0
Middle	12.2	12.3	12.5	12.6	11.7	13.5	12.4	12.2
Fourth	17.8	18.7	20.2	18.7	19.5	26.2	19.4	18.3
Highest	13.5	14.7	18.8	15.7	18.7	18.1	17.0	* 15.0
Residence								
Urban	16.0	16.5	19.9	17.3	19.6	21.7	18.4	* 17.0
Rural	13.9	13.8	13.3	13.6	12.3	17.5	13.6	13.8
Region								
Manicaland	17.0	14.8	12.7	14.4	12.6	16.1	13.7	16.1
Mashonaland Central	13.9	15.3	13.8	15.2	11.4	23.0	14.9	14.2
Mashonaland East	14.4	14.0	14.2	13.3	13.5	18.8	14.1	14.3
Mashonaland West	15.6	15.1	17.8	15.0	18.0	20.0	16.7	15.9
Mashonaland North	14.2	15.8	17.0	16.2	13.9	18.7	16.2	14.8
Mashonaland South	15.7	15.3	15.6	15.2	15.6	18.0	15.4	15.6
Midlands	12.0	14.1	13.5	15.1	13.3	9.1	13.7	12.4
Masvingo	12.5	13.5	14.5	13.5	12.4	20.7	13.8	12.9
Harare	17.4	17.0	21.5	18.1	21.1	24.4	19.6	18.4
Bulawayo	13.3	14.6	18.8	16.2	18.2	17.8	16.9	* 15.0
Total	14.8	15.3	17.4	15.8	16.7	19.0	16.4	* 15.3
Number	5,555	1,620	1,586	1,837	1,132	237	3,206	8,761

* Significant at 5%

Table N5. Predicted HIV prevalence among the non-respondents and adjusted HIV prevalence estimates for all eligible females, Zimbabwe 2005-06

Characteristic	Observed HIV prevalence among tested	Predicted HIV prevalence among non-tested respondents					Total non-tested	Adjusted prevalence among all eligible
		Interview status		Reason not tested				
		Inter-viewed	Not inter-viewed	Refused	Absent	Other/missing		
Age								
15-19	6.2	5.2	6.2	5.4	6.1	5.4	5.6	6.0
20-24	16.3	14.5	15.6	14.7	15.5	15.5	15.0	16.0
25-29	28.8	25.9	28.2	25.8	28.4	29.2	26.9	28.3
30-34	35.5	34.8	35.8	35.1	36.1	32.0	35.2	35.4
35-39	34.5	34.5	34.1	35.2	33.4	31.9	34.3	34.5
40-44	25.7	27.6	26.2	26.8	25.6	31.0	27.1	26.1
45-49	18.0	16.0	17.2	15.2	17.2	20.8	16.5	17.6
Education								
No education	20.0	22.2	16.3	22.7	19.9	15.3	19.1	19.8
Primary	22.4	21.9	22.1	22.0	22.1	21.5	22.0	22.3
Secondary +	20.5	19.0	21.5	19.2	21.3	22.1	20.0	20.4
Wealth status								
Lowest	17.7	17.6	15.5	17.0	15.2	18.7	16.8	17.5
Second	21.1	19.8	20.4	20.5	21.7	15.0	20.1	21.0
Middle	22.7	22.7	23.1	22.9	22.7	23.3	22.9	22.8
Fourth	26.8	24.7	28.7	24.7	29.3	29.4	26.2	26.7
Highest	17.1	16.8	18.6	17.2	18.7	16.9	17.6	17.3
Residence								
Urban	21.6	19.5	22.0	19.6	22.1	23.5	20.5	21.3
Rural	20.8	20.4	20.5	20.8	20.7	18.6	20.5	20.7
Region								
Manicaland	22.3	16.8	21.1	15.7	22.2	23.4	18.1 *	21.3
Mashonaland Central	22.9	22.5	23.3	22.4	23.9	23.0	22.7	22.9
Mashonaland East	21.3	22.5	21.6	23.9	22.1	16.8	22.0	21.4
Mashonaland West	22.5	25.1	24.6	25.2	24.2	24.4	24.8	23.1
Mashonaland North	22.8	19.9	20.8	20.2	17.8	21.9	20.2	22.2
Mashonaland South	24.6	21.1	22.9	21.6	22.5	22.1	21.9	24.0
Midlands	20.1	18.3	20.3	19.5	20.6	15.4	19.3	20.0
Masvingo	17.3	19.2	15.7	19.0	14.8	17.8	17.9	17.4
Harare	21.1	18.8	21.4	19.1	21.8	19.0	19.9	20.7
Bulawayo	19.6	18.7	20.7	19.0	19.7	24.3	19.6	19.6
Total	21.1	19.9	21.4	20.1	21.5	20.7	20.5	21.0
Number	7,494	1,413	963	1,514	636	226	2,376	9,870

* Significant at 5%

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