# **Uganda**



HIV/AIDS Sero-Behavioural Survey 2004-05

# UGANDA HIV/AIDS SERO-BEHAVIOURAL SURVEY 2004-2005

Ministry of Health Kampala, Uganda

ORC Macro Calverton Maryland, USA

**March 2006** 













This report presents findings from the 2004-05 Uganda HIV/AIDS Sero-Behavioural Survey (UHSBS) carried out by the Ministry of Health. ORC Macro provided financial and technical assistance for the survey through the United States Agency for International Development (USAID)-funded MEASURE DHS programme, which is designed to assist developing countries to collect data on fertility, family planning, maternal and child health, and HIV/AIDS. Financial and technical assistance was also provided by the U.S. Centers for Disease Control and Prevention (CDC). Financial support was provided by the Government of Uganda, the U.S. Agency for International Development (USAID), the U.S. President's Emergency Plan for AIDS Relief, and the Government of Japan through the Japan International Cooperation Agency (JICA). Additional support was provided by the Uganda Bureau of Statistics, the World Health Organisation, the AIDS Integrated Model (AIM) project, UNAIDS, Makerere University, the Uganda AIDS Commission, and the Uganda Global Fund for AIDS, TB, and Malaria. The opinions expressed in this report do not necessarily reflect the views of the donor organisations. It is also important to acknowledge the contribution of the office and field staff, district officials, communities, and survey respondents, without whom the survey would not have been possible.

Additional information about the survey may be obtained from the Ministry of Health, P.O. Box 7272, Kampala (Telephone: 256.41.340.874 or 256.41.259.669; Fax: 256.41.348.278; E-mail:opioalex@infocom.co.ug; jmusinguzi@infocom.co.ug; wkirungi@starcom.co.ug).

Additional information about the DHS programme may be obtained from MEASURE DHS, ORC Macro, 11785 Beltsville Drive, Suite 300, Calverton, MD 20705, U.S.A. (Telephone: 301.572.0200; Fax: 301.572.0999; E-mail: reports@orcmacro.com; Internet: www.measuredhs.com.

### Recommended citation:

Ministry of Health (MOH) [Uganda] and ORC Macro. 2006. *Uganda HIV/AIDS Sero-behavioural Survey 2004-2005*. Calverton, Maryland, USA: Ministry of Health and ORC Macro.

# **CONTENTS**

	FIGURES	
	ANDA	
MAP OF UGA	NIVA	XII
CHAPTER 1	INTRODUCTION	
1.1	Background Information	
1.2	National Policy on HIV/AIDS	2
1.3	Objectives of the Survey	3
1.4	Sample Size and Design	4
1.5	Questionnaires	5
1.6	Biomarkers	
1.7	Voucher System for Voluntary Counselling and Testing	8
1.8	Home-based Counselling and Testing Study	8
1.9	Training	
1.10	Mobilisation and Fieldwork	
1.11	Data Processing	
1.12	Response Rates	10
CHAPTER 2	CHARACTERISTICS OF HOUSEHOLDS AND HOUSEHOLD	SUPPORT
2.1	Key Findings	11
2.2	Introduction	
2.3	Household Population by Age, Sex, and Residence	
2.4	Household Composition	
2.5	Education Attainment of Household Population	
2.6	Household Characteristics	
2.7	Household Durable Goods	
2.8	Ownership of Mosquito Nets	
2.9	Orphanhood and Children's Living Arrangements	
2.10	Care and Support for Orphans and Vulnerable Children	
2.11	Care and Support for Chronically III Adults	21
CHAPTER 3	CHARACTERISTICS OF RESPONDENTS	
3.1	Key Findings	
3.2	Introduction	
3.3	Background Characteristics	
3.4	Educational Attainment	26
3.5	Employment Status	28
3.6	Marital Status	28

3.7	Polygyny	29
3.8	Respondents Who Have Ever Been Widowed	
3.9	Age at First Marriage	32
3.10	Characteristics of Couples	
3.11	Media Exposure of Respondents	
3.12	Traditional Tattooing and Cutting and Male Circumcision	35
3.13	Contraceptive Use among Women	37
3.14	Number of Children Ever Born	39
3.15	Birth Registration	40
CHAPTER 4	HIV/AIDS-RELATED KNOWLEDGE	
4.1	Key Findings	43
4.2	Introduction	43
4.3	Awareness of AIDS	
4.4	Knowledge of Means of Avoiding AIDS	
4.5	Knowledge of Mother-to-Child Transmission	
4.6	Rejection of Misconceptions about AIDS Transmission	
4.7	Comprehensive Knowledge about HIV/AIDS	49
4.8	Perceptions about Discordance	51
CHAPTER 5	ATTITUDES RELATING TO HIVAIDS	
5.1	Key Findings	53
5.2	Introduction	53
5.3	HIV/AIDS-Related Stigma	
5.4	Attitudes Towards Negotiating Safer Sex	
5.5	Attitudes Towards Educating Youth about Condom Use	
5.6	Perceived Risk of Getting HIV	58
CHAPTER 6	HIV/AIDS-RELATED BEHAVIOUR	
6.1	Key Findings	61
6.2	Introduction	61
6.3	Age at First Sexual Intercourse	61
6.4	Recent Sexual Activity	
6.5	Multiple Sexual Partners	
6.6	Condom Use at Last Sex and Reasons for Non-Use	
6.7	Higher-risk Sex	
6.8	Sex with Prostitutes	
6.9	HIV Counselling and Testing	
6.10	Communication about HIV with Partners	
6.11	Prevalence of Sexually Transmitted Infections	
6.12	Injections, Blood Transfusions, and Contact with Blood	77

CHAPTER 7	SEXUAL BEHAVIOUR INDICATORS AMONG YOUTH	
7.1	Key Findings	81
7.2	Introduction	81
7.3	HIV/AIDS-Related Knowledge among Youth	81
7.4	Knowledge of Condom Sources among Youth	82
7.5	Percentage Ever Married	
7.6	Age at First Sexual Experience	84
7.7	Condom Use at First Sex	87
7.8	Abstinence and Premarital Sex	89
7.9	Higher-risk Sex and Condom Use among Youth	
7.10	Abstinence, Being Faithful, and Condom Use among Youth	92
7.11	Age Differences Between Sexual Partners	
7.12	Alcohol Use During Sex among Youth	93
7.13	Forced Sex among Youth	95
7.14	Voluntary HIV Counselling and Testing among Youth	95
CHAPTER 8	HIV PREVALENCE	
8.1	Key Findings	97
8.2	Introduction	97
8.3	Coverage of HIV Testing	98
8.4	HIV Prevalence by Age and Sex	101
8.5	HIV Prevalence by Other Background Characteristics	102
8.6	HIV Prevalence by Sociodemographic Characteristics	105
8.7	HIV Prevalence and Male Circumcision	
8.8	HIV Prevalence by Sexual Risk Behaviours	
8.9	HIV Prevalence by Other Characteristics Related to HIV Risk	
8.10	Prevalence of HIV among Youth	
8.11	HIV Prevalence among Cohabiting Couples	
8.12	HIV Prevalence among Children Under Five	114
CHAPTER 9	SYPHILIS PREVALENCE	
9.1	Key Findings	117
9.2	Introduction	
9.3	Coverage of Syphilis Testing	
9.4	Syphilis Prevalence by Age and Sex	
9.5	Prevalence of Syphilis by Background Characteristics	
9.6	Syphilis Prevalence by Sociodemographic Characteristics	
9.7	Syphilis Prevalence by Sexual Risk Behaviours	
9.8	Syphilis Prevalence by STI Reporting	
9.9	Syphilis Prevalence among Cohabiting Couples	123
CHAPTER 10	PREVALENCE OF HERPES AND HEPATITIS B	
10.1	Key Findings	125

10.2	Introduction	125
10.3	Herpes Prevalence by Age and Sex	125
10.4	Prevalence of Herpes by Background Characteristics	126
10.5	Prevalence of Herpes by Sociodemographic Characteristics	128
10.6	Prevalence of Herpes by STI Reporting	129
10.7	Prevalence of Herpes among Cohabiting Couples	129
10.8	Hepatitis B Infection	131
		133
APPENDIX A	PERSONS INVOLVED IN THE 2004-2005 HIV/AIDS SER0- BEHAVIOURAL SURVEY	135
APPENDIX B	ESTIMATES OF SAMPLING ERRORS	139
APPENDIX C	QUESTIONNAIRES	155

# **TABLES AND FIGURES**

CHAPTER 1	INTRODUCTION	Page			
Table 1.1	Results of household and individual interviews	10			
CHAPTER 2	CHARACTERISTICS OF HOUSEHOLDS AND HOUSEHOLD SUPPOR	RΤ			
Table 2.1	Household population by age, sex, and residence	12			
Table 2.2	Household composition	. 13			
Table 2.3.1	Highest level of education attended by female household population age 5 and over (percent distribution)	14			
Table 2.3.2	Highest level of education attended by male household population age 5 and over (percent distribution				
Table 2.4	Housing characteristics (percent distribution)				
Table 2.5	Household possession of durable goods				
Table 2.6	Living arrangements and survival status of parents for children under 18				
Table 2.7	(percent distribution)				
Table 2.8	External support for households with orphans and vulnerable children (OVC).				
Table 2.9	External support for chronically ill adults				
CHAPTER 3	CHARACTERISTICS OF RESPONDENTS				
Table 3.1	Age distribution of respondents	23			
Table 3.2	Background characteristics of respondents				
Table 3.3.1	Educational attainment by background characteristics: women 15-49				
Table 3.3.2	Educational attainment by background characteristics: men 15-49				
Table 3.4	Percentage currently employed				
Table 3.5	Current marital status of respondents	29			
Table 3.6	Polygynous marriages	30			
Table 3.7	Percentage ever widowed	31			
Table 3.8.1	Age at first marriage for women	32			
Table 3.8.2	Age at first marriage for men	32			
Table 3.9	Age and education differences among couples	33			
Table 3.10.1	Exposure of women to mass media	34			
Table 3.10.2	Exposure of men to mass media	35			
Table 3.11	Traditional tattooing or skin cutting and male circumcision	36			
Table 3.12	Current contraceptive use among women 15-49 by age (percent distribution)	38			
Table 3.13	Current contraceptive use among married women 15-49 by background characteristics (percent distribution)	39			
Table 3.14	Number of children ever born (percent distribution) among all women and currently married women				
Table 3.15	Birth registration				

CHAPTER 4	HIV/AIDS-RELATED KNOWLEDGE	
Table 4.1	Awareness of AIDS and main source of information	43
Table 4.2	Most important HIV/AIDS message learned from main source	44
Table 4.3	Knowledge of ways to reduce the chances of getting the AIDS virus	
Table 4.4	Knowledge of mother-to-child transmission (MTCT)	46
Table 4.5.1	Rejection of common misperceptions regarding HIV/AIDS: women	
Table 4.5.2	Rejection of common misperceptions regarding HIV/AIDS: men	
Table 4.6	Comprehensive knowledge about HIV/AIDS	
Table 4.7	Perceptions about discordance of HIV infection in couples	
CHAPTER 5	ATTITUDES RELATING TO HIV/AIDS	
Table 5.1.1	Accepting attitudes towards people who are HIV infected: women	5∠
Table 5.1.2	Accepting attitudes towards people who are HIV infected: men	55
Table 5.2	Attitudes towards negotiating safer sex	
Table 5.3	Support of education for youth about condom use to prevent AIDS,	
Table 5.4.1	Perceived chance of getting the HIV virus: women	
Table 5.4.2	Perceived chance of getting the HIV virus: men	
Figure 5.1	Attitudes towards negotiating safer sex among women and men 15-49	56
CHAPTER 6	HIV/AIDS-RELATED BEHAVIOUR	
Table 6.1	Age at first sexual intercourse	62
Table 6.2	Recent sexual activity	
Table 6.3.1	Multiple sex partnerships among women	
Table 6.3.2	Multiple sex partnerships among men	
Table 6.4	Condom use at last sex	
Table 6.5	Reasons for not using a condom at last sex	
Table 6.6	Higher-risk sex and condom use at last higher-risk sex in the 12 months preceding the survey	
Table 6.7	1 0 7	
Table 6.7	Coverage of prior HIV testingReasons for never having had an HIV test	
Table 6.9	HIV testing during antenatal care	
Table 6.3 Table 6.10.1	Partner communication about HIV among women	
Table 6.10.1	Partner communication about HIV among men	
Table 6.10.2	Prevalence of sexually transmitted infections (STI) and STI symptoms	
Table 6.11	Injections and blood transfusions	
Table 6.12	Yellow fever immunisations and contact with blood	
Figure 6.1	Sources of treatment for sexually transmitted infections and their symptoms	77
CHAPTER 7	SEXUAL BEHAVIOUR INDICATORS AMONG YOUTH	
Table 7.1	Comprehensive knowledge about AIDS among youth	
Table 7.2	Knowledge of a source for condoms and ever use of condoms among youth	ı 83
Table 7.3	Percentage of youth who have ever been married	

Table 7.4	Percentage of youth who have ever had sex	84
Table 7.5	Percentage of youth aged 15-24 who had sex by age 15 and by age 18,	
	by background characteristics	85
Table 7.6	Percentage of youth aged 15-17 who had sex by age 15 by OVC status	
Table 7.7	Condom use at first sex among young women and men	
Table 7.8	Premarital sex and condom use during premarital sex among youth	
Table 7.9	Higher-risk sex and condom use at last higher-risk sex among youth in the	
	past 12 months	91
Table 7.10	Age-mixing in higher-risk sexual relationships among young women 15-19	
Table 7.11	Sex while drinking alcohol among youth	
Table 7.12	Use of force at first sex among youth (percent distribution),	
Table 7.13	Voluntary HIV testing among youth	
Figure 7.1	Sex before age 15 and 18 among youth	86
Figure 7.2	Abstinence, being faithful, and using condoms (ABC) among young women	00
11gare 7.2	and men	92
CHAPTER 8	HIV PREVALENCE	
Table 8.1	Coverage of HIV testing among eligible women and men aged 15-49 by	
Table 0.1	residence and region (unweighted percent distribution)	90
Table 8.2	Coverage of HIV testing among eligible women and men aged 15-49 by	99
Table 0.2	background characteristics (unweighted)	100
Table 8.3	HIV prevalence by age,	
Table 8.4	HIV prevalence by background characteristics	
Table 8.5	HIV prevalence by sociodemographic characteristics	
Table 8.6	HIV prevalence among circumcised and uncircumcised men according to	100
Tuble 0.0	background characteristics	107
Table 8.7	HIV prevalence by sexual behaviour characteristics	
Table 8.8	HIV prevalence by other characteristics related to risk	
Table 8.9	HIV prevalence by prior HIV testing status	
Table 8.10	HIV prevalence among youth aged 15-24,	
Table 8.11	HIV prevalence among cohabiting couples	
Table 8.12	Coverage of HIV testing among eligible children under age five	115
Table 8.13	HIV prevalence among children under age five	
Table 0.15	The prevalence among children under age live	110
Figure 8.1	HIV prevalence by sex and age	101
Figure 8.2	HIV prevalence by region	
Figure 8.3	HIV prevalence by wealth quintile	
Figure 8.4	HIV prevalence by marital status	106
CHAPTER 9	SYPHILIS PREVALENCE	
Table 9.1	Type of blood sample provided by women and men aged 15-49 by	
	residence and region (unweighted percent distribution)	
Table 9.2	Syphilis prevalence by age	
Table 9.3	Syphilis prevalence by background characteristics	
Table 9.4	Syphilis prevalence by sociodemographic characteristics	
Table 9.5	Syphilis prevalence by sexual behaviour characteristics	122

Table 9.6	Syphilis prevalence by reporting of sexually transmitted infection (STI) or STI symptom in past 12 months	123
Table 9.7	Syphilis prevalence among cohabiting couples	
Figure 9.1	Syphilis prevalence by sex and age	119
CHAPTER 10	PREVALENCE OF HERPES AND HEPATITIS B	
Table 10.1	Prevalence of herpes simplex type 2 by age and sex	125
Table 10.2	Prevalence of herpes simplex type 2 by background characteristics	127
Table 10.3	Prevalence of herpes simplex type 2 by sociodemographic characteristics	128
Table 10.4	Prevalence of herpes simplex type 2 by reporting of sexually transmitted	
	infection (STI) or STI symptom in the past 12 months	
Table 10.5	Prevalence of herpes simplex type 2 among cohabiting couples	
Table 10.6	Prevalence of infection with hepatitis B by age and sex	
Table 10.7	Prevalence of infection with hepatitis B by background characteristics	132
Figure 10.1	Herpes prevalence by sex and age	126
APPENDIX B	ESTIMATES OF SAMPLING ERRORS	
Table B.1	List of selected variables for sampling errors	141
Table B.2	Sampling errors for national sample	
Table B.3	Sampling errors for urban sample,	
Table B.4	Sampling errors for rural sample	
Table B.5	Sampling errors for Central sample	145
Table B.6	Sampling errors for Kampala sample	146
Table B.7	Sampling errors for East Central sample	147
Table B.8	Sampling errors for Eastern sample	
Table B.9	Sampling errors for Northeast sample	149
Table B.10	Sampling errors for North Central sample	
Table B.11	Sampling errors for West Nile sample	
Table B.12	Sampling errors for Western sample	
Table B.13	Sampling errors for Southwest sample	153

## **FOREWORD**

Uganda has been affected by the HIV/AIDS epidemic since the early 1980s. This epidemic which started in the Rakai district located in the southwestern part of the country has now spread countrywide, with all parts of the country experiencing the brunt of the scourge.

In response to the epidemic, a national multisectoral response was put in place. In addition, a system for monitoring the magnitude and dynamics of the HIV epidemic and impact of interventions in the country was instituted. This system consists of surveillance of antenatal clinic and sexually transmitted infection clinic attendees, periodic population-based surveys, and mathematical projections.

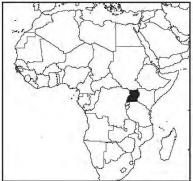
In line with the above, the Uganda HIV/AIDS Sero-Behavioural Survey was conducted in 2004-2005 to provide additional data that can be used to inform strategic planning, programme evaluation, policy formulation and calibration of the sentinel surveillance system. The main aim of the survey was to obtain national and sub-national estimates of the prevalence of HIV, syphilis, herpes simplex virus type 2, and Hepatitis B, and their risk factors, programme coverage, as well as the indicators of behaviour, knowledge, and attitudes. The survey was conducted on a nationally representative sample consisting of 10,430 households distributed in 417 enumeration areas. During the survey, individual interviews were conducted and biological samples were taken. In all, over 8,000 adult women, 7,000 adult men, and 8,000 children aged 0-4 years were sampled.

This report presents comprehensive information on the HIV/AIDS situation in Uganda based on the results of the survey. The information ranges from biological to behavioural indicators and is now available for public use. Advantage should be taken of the availability of this invaluable information to inform the process of policy formulation, planning, monitoring and evaluation of the HIV/AIDS programme in Uganda. The report will be useful to all HIV/AIDS stakeholders, be those at policy level, programme level, community level, academia and research institutions.

Major General (Rtd.) Jim K. Muhwezi; MP MINISTER OF HEALTH

# **UGANDA**





This map shows the districts of Uganda as they were when the Uganda HIV/AIDS Sero-Behavioural Survey 2004-05 was designed. The regions shown on the map were created for survey analysis purposes.

INTRODUCTION

#### 1.1 **BACKGROUND INFORMATION**

Uganda has braved a severe and devastating epidemic of HIV infection and AIDS for almost a quarter of a century. The epidemic started on the shores of Lake Victoria in Rakai district, the initial epicentre of the illness. Thereafter, HIV infection spread quickly, initially in major urban areas and along highways. By 1986, HIV had reached all districts in the country, resulting in what is classified as a generalised epidemic. HIV infection continued to spread relentlessly throughout the 1980s and early 1990s and soon gave rise to a wave of AIDS as more HIV-infected people succumbed to opportunistic infections arising from their suppressed immune systems. As in other countries in sub-Saharan Africa, Uganda's HIV/AIDS epidemic is predominantly spread through heterosexual contact.

Throughout the 25 years of the epidemic, people living in urban areas have had higher prevalence relative to those in rural areas. In all, it is estimated that about 2 million people were infected by HIV during this period, of whom about 1 million have died and another 1 million are living with the infection today.

The impact of the disease has been mainly felt through the escalating morbidity and mortality that disproportionately affects women and men during the prime of their productive life. The consequences of the epidemic span across all spheres of life (individuals and communities nationwide). It has imposed a severe and unsustainable burden on the meager health sector resources, as funds are diverted from other areas to HIV prevention and AIDS care and treatment services. HIV infection has also given rise to an epidemic of opportunistic infections, including tuberculosis (TB). Treatment of some of these opportunistic infections is more expensive than that of AIDS.

The HIV/AIDS epidemic has also had far-reaching social consequences. By depriving families and communities of their most productive population, it has caused untold suffering to individuals and communities. At the community level, mortality of individuals in the prime of their productive lives has imposed unsustainable strains on the extended family structure, leading to a massive burden of orphans and other vulnerable children that are now estimated at almost 2 million in the country, as well as other social consequences such as child- and widow-headed households. Morbidity and mortality of parents has severely affected the schooling of children, especially girls who are forced prematurely into the labour market, further aggravating the vicious cycle of vulnerability.

The micro- and macro-economic consequences are diverse. Economic productivity has been adversely affected by the premature death of women and men during their most productive age, leaving orphans and widows. The loss of critical human capital has affected industrial and private sector growth, and the development of institutional capacity, all of which require skilled workers and leaders. Morbidity and mortality also results in the loss of skilled manpower for teaching, medical care, agricultural production, and other professions that are not easily replaced. Indeed, it is for this reason that the attainment of human development in areas of economic growth, poverty reduction, and improved quality of life indicators is below what it would have been in the absence of AIDS. The demographic consequences of the epidemic are reflected in the quality of life indices in the country, such as infant mortality and life expectancy, that are currently lower than what would have been achieved in the absence of HIV.

Uganda realised the gravity of the epidemic right from the outset and mounted public health interventions to counter its spread. The first National AIDS Control Programme in the world was started by the Ministry of Health, Uganda. The programme piloted and implemented several interventions to avert the further spread of HIV. Specifically, the programme initiated public education campaigns about the epidemic, promoted safer sexual behaviour, including abstinence, mutual faithfulness, and condom use, ensured safe blood transfusion in health facilities, and initiated programmes for care and treatment for infected individuals. It also implemented surveillance activities to monitor the magnitude and dynamic of HIV infection. The interventions evolved over time as more knowledge about the epidemiology of the epidemic emerged. As a consequence, it appears that after the seemingly relentless spread of HIV infection in the late 1980s and early 1990s, the epidemic peaked in the early 1990s, particularly in urban areas with antenatal prevalence ranging between 25-30 percent in the most affected urban areas. Subsequently, antenatal HIV sero-prevalence steadily declined throughout the remainder of the 1990s in both urban and rural areas, but particularly in urban areas. However, there is emerging evidence that during the early part of this decade, HIV sero-prevalence has stabilised at 5-10 percent in urban areas and below 5 percent in rural areas.

Hepatitis B is a global public health concern, with high endemicity in sub-Saharan Africa, China, Southeast Asia, the Amazon basin, and many of the Pacific islands. In Uganda, the prevalence of hepatitis B in the general population was previously unknown, although small studies and data from the national blood bank estimated the prevalence to be 8-16 percent. Moreover, the data are obtained from a highly selected group of people who are thought not to be at risk of HIV infection. For this reason, hepatitis B testing was incorporated into the UHSBS. Similarly, data on the prevalence of syphilis and herpes simplex type 2 were also unavailable from the general population, so these two biomarkers were also added as part of the survey.

As in other countries in Africa, most knowledge about the magnitude and dynamics of HIV and syphilis infection in Uganda is based on antenatal HIV surveillance and a few sub-national, populationbased studies. While providing useful information for informing strategic planning and evaluation of programmes, these data sources are either limited in geographical coverage or the population groups that they cover, and therefore the data that are obtained may not be fully generalisable to the whole country.

The 2004-05 Uganda HIV/AIDS Sero-Behavioural Survey (UHSBS) was designed to provide accurate national and sub-national estimates of HIV infection and behavioural risk factors as well as other programme indicators to guide strategic planning and evaluation of programmes, and to complement and calibrate estimates obtained from other sources. The UHSBS was implemented by the Ministry of Health (MOH). ORC Macro provided financial and technical assistance for the survey through the USAIDfunded MEASURE DHS programme. Financial and technical assistance was also provided by the U.S. Centers for Disease Control and Prevention (CDC). Financial support was provided by the Government of Uganda, the U.S. Agency for International Development (USAID), the U.S. President's Emergency Plan for AIDS Relief, and the Government of Japan through the Japan International Cooperation Agency (JICA). Additional support was provided by the Uganda Bureau of Statistics, the World Health Organisation (WHO), the AIDS Integrated Model (AIM) Project, UNAIDS, Makerere University, and the Uganda Global Fund for AIDS, TB, and Malaria Project.

#### 1.2 NATIONAL POLICY ON HIV/AIDS

From the outset of the epidemic, the Uganda Government recognised the gravity of the problem it posed and initiated public health strategies for containment. Recognising that the majority of new infections were transmitted through heterosexual contact, the strategy to contain the spread of the epidemic sought to address sexual behaviour risk factors to avert further HIV transmission by promoting primary and secondary sexual abstinence, mutual faithfulness among married or cohabiting partners, and condom use, especially in higher-risk sexual encounters. This approach to prevention, colloquially known as the 'ABC' (abstinence, being faithful, and condom use) approach has continued to form the backbone of HIV prevention strategy in the country to this day. The ABC strategy has since been expanded to the ABC Plus, to include voluntary counselling and testing (VCT), prevention of mother-to-child transmission of the virus (PMTCT), antiretroviral treatment (ART), and HIV/AIDS care and support services.

In addition to recognising the public health consequences of the problem, the government recognised that its impact transcended the sphere of public health, requiring the involvement of all spheres of public life in the country comprising public, civil society, nongovernmental organisations, communities, and individuals. Consequently, the multisectoral approach to HIV prevention and control including care and support services was adopted as early as 1990 and currently forms one of the pillars of the national response. This policy underscores the concerted involvement of all individuals, communities, public and private sectors, including civil society and community-based organisations, in the effort to contain the epidemic. It calls for concerted efforts by all stakeholders according to their mandates and areas of comparative advantage and capacities. In line with this, a multisectoral coordinating body, the Uganda AIDS Commission, was created by statute of Parliament in 1992 and placed under the office of the President to coordinate the harmonised implementation of the multisectoral approach. Furthermore, the Government recognised the importance of political leadership and commitment at all levels of governance in all efforts to prevent the epidemic and mitigate its impact. Involvement of political leadership is the second pillar in the national response. The government also adopted a policy of openness about the epidemic as one of the pillars of the national response, which is vital to fighting stigma and discrimination. Finally, the Ugandan response received unprecedented support and involvement of development partners at all levels of governance and civil society.

The Uganda government recognises the developmental challenges of the epidemic and has taken concrete steps to address it. HIV control is one of the developmental priorities addressed in the country's Poverty Eradication Action Plan (PEAP) and the National Vision for 2025. The National AIDS Policy, which is currently in draft form, provides for a framework for addressing the multidimensional challenges of the epidemic by a variety of stakeholders in a coordinated way. The policy emphasises the main HIV/AIDS concerns in the development agenda in the country by all sectors and sections of society. It also provides for protection of the rights of vulnerable individuals and populations, and mitigation of the impact of the epidemic at the individual and community levels and also on micro- and macro-economic development. It also provides a framework for strengthening the capacity of institutions and communities to overcome the social and economic challenges of the epidemic. The policy also provides a framework for strengthened monitoring and evaluation of HIV/AIDS programmes, conducting research, and for resource mobilisation. Indeed, this report of the UHSBS will be an invaluable source of information for the monitoring and evaluation of HIV/AIDS programmes in Uganda.

## 1.3 OBJECTIVES OF THE SURVEY

The UHSBS is a nationally representative, population-based survey designed to obtain national and sub-national data on the prevalence of HIV and other sexually transmitted infections (STIs) and their social and demographic variations in the country. The survey also obtained information on knowledge, attitudes, and behaviour regarding HIV/AIDS. Data collection took place from 14 August 2004 until late January 2005.

The overall goal of the survey was to provide programme managers and policymakers involved in HIV/AIDS programmes with strategic information needed to monitor and evaluate existing programmes and to effectively design new strategies for combating the epidemic in Uganda. The survey data will also be used to make population projections and to calculate indicators of the UN General Assembly Special

Session (UNGASS), USAID, the President's Emergency Plan for AIDS Relief, UNAIDS, WHO, the Uganda Health Sector Strategic Plan, and the HIV/AIDS National Strategic Framework.

The specific objectives of the 2004-05 UHSBS were the following:

- To obtain accurate estimates of the magnitude and variation in HIV prevalence in Uganda
- To obtain accurate information on behavioural and care indicators related to HIV/AIDS and other sexually transmitted infections
- To obtain accurate information on other HIV/AIDS programme indicators
- To provide information on HIV prevalence to calibrate and improve the sentinel surveillance system
- To determine the magnitude and distribution of syphilis, herpes simplex 2, and hepatitis B infection.

#### 1.4 SAMPLE SIZE AND DESIGN

The sample for the 2004-05 UHSBS covered the population residing in households in the country. A representative probability sample of 10,425 households was selected for the UHSBS, and an additional 12 households were found during field work for a total of 10,437. The sample was constructed to allow for separate estimates for key indicators for each of nine regions created for the survey, consisting of eight groups of the (then) 56 districts in Uganda, and Kampala, the capital, as a region on its own. The regions were delineated as follows:

- 1 Central: Kalangala, Kiboga, Luwero, Masaka, Mpigi, Mubende, Nakasongola, Rakai, Sembabule, and Wakiso
- 2 Kampala
- 3 East Central: Bugiri, Iganga, Jinja, Kamuli, Kayunga, Mayuge, and Mukono
- 4 Eastern: Busia, Kapchorwa, Mbale, Pallisa, Sironko, and Tororo
- 5 Northeast: Kaberamaido, Katakwi, Kotido, Kumi, Moroto, Nakapiripirit, and Soroti
- 6 North Central: Apac, Gulu, Kitgum, Lira, and Pader
- 7 West Nile: Adjumani, Arua, Moyo, Nebbi, and Yumbe
- 8 Western: Bundibugyo, Hoima, Kabarole, Kamwenge, Kasese, Kibaale, Kyenjojo, and Masindi
- 9 Southwest: Bushenyi, Kabale, Kanungu, Kisoro, Mbarara, Ntungamo, and Rukungiri.

The sample was allocated roughly equally across all nine regions to allow a sufficient size in each to produce reliable results. Since the sample was not allocated in proportion to the size of each region, the UHSBS sample is not self-weighting at the national level. Consequently, weighting factors have been applied to the data to produce nationally representative results.

The survey utilised a two-stage sample design. The first stage involved selecting sample points or clusters from a list of enumeration areas (EAs) covered in the 2002 Population Census. A total of 417 clusters composed of 74 urban and 343 rural points were selected. The second stage of selection involved the systematic sampling of households from the census list of households in each cluster. Twenty-five households were selected in each EA.

All women and men aged 15-59 who were either permanent residents of the households in the sample or visitors present in the household on the night before the survey were eligible to be interviewed in the survey. Unlike most studies in which the age category reflects the reproductive age group 15-49,

the upper age cutoff in this survey was extended to 59 years so as to include the segment of the population that remains sexually active up to that age. Nevertheless, since most of the internationally accepted HIV/AIDS indicators are based on the population aged 15-49, most of the results presented in this report reflect this age group.

All women and men who were interviewed were asked to voluntarily give a blood sample for testing. Blood samples were also drawn from children under age five years after obtaining consent from their parents or caretakers. Children aged 5-14 years were not enrolled in the survey because other studies have shown a very low HIV prevalence in this age group.

### 1.5 QUESTIONNAIRES

Two questionnaires were used in the survey, a Household Questionnaire and an Individual Questionnaire for women and men aged 15-59. The contents of these questionnaires were based on the model AIDS Indicator Survey questionnaires developed by the MEASURE DHS programme.

In consultation with a spectrum of government agencies and local and international organisations, the MOH and MEASURE DHS adapted the model questionnaires to reflect issues in HIV/AIDS relevant to Uganda. These questionnaires were then translated from English into six local languages—Ateso-Karamajong, Luganda, Lugbara, Luo, Runyankole-Rukiga, and Runyoro-Rutoro. The questionnaires were further refined after the pretest and training of the field staff.

The Household Questionnaire was used to list all the usual members and visitors in the selected households. Some basic information was collected on the characteristics of each person listed, including age, sex, education, relationship to the head of the household, and orphanhood among children under age 18 years. The main purpose of the Household Questionnaire was to identify women and men who were eligible for the individual interview. The Household Questionnaire also collected information on characteristics of the household's dwelling unit, such as the source of water, type of toilet facilities, materials used for the floor of the house, ownership of various durable goods, and ownership of mosquito nets. Information was also collected on whether the household had received specific types of care and support in the preceding 12 months for any chronically ill adults, any household members who died, and any orphans and vulnerable children. The Household Questionnaire was also used to record respondents' consent to volunteer to give blood samples. The blood collection and testing procedures are described in the next section.

The Individual Questionnaire was used to collect information from all women and men aged 15-59 and it covered the following topics:

- Background characteristics (e.g., education, media exposure, occupation, religion)
- Reproduction
- Marriage and sexual activity
- Husband's background (for women)
- Knowledge and attitudes towards HIV/AIDS
- Knowledge and prevalence of other sexually transmitted infections (STIs)

All aspects of the UHSBS data collection were pretested in June 2004. For this, five teams were formed, each with 1 supervisor, 2 female interviewers, 2 male interviewers and 2 laboratory technicians. Team members were trained for ten days and then proceeded to conduct the survey in the various districts in which their native language was spoken. In total, 300 individual interviews were completed in the pretest. The lessons learnt from the pretest were used to finalise the survey instruments and logistical arrangements for the survey.

#### 1.6 **BIOMARKERS**

All women and men aged 15-59 who were interviewed were asked to voluntarily provide a blood sample for subsequent testing for HIV, syphilis, herpes simplex virus 2, and hepatitis B. Blood samples were also requested for all children under five for testing for HIV and hepatitis B. The protocol for the blood specimen collection and analysis was developed jointly by all parties to the survey. It was reviewed and approved by ORC Macro's Institutional Review Board and the Science and Ethics Committee of the Uganda Virus Research Institute (UVRI) and was also cleared by the Ethics Committee of the Uganda National Council of Science and Technology and the Centers for Disease Control and Prevention (CDC) in Atlanta. The protocol allows for the merging of the test results to the socio-demographic and behavioural data collected in the individual questionnaires, provided that the information that could potentially identify an individual is destroyed before the linking is effected. This required that cluster and household codes be deleted from the data file and that the back page of the Household Questionnaire that contains the bar code labels be destroyed prior to merging the test results with the individual data file. This report contains the results of the analysis of the fully linked dataset.

For the purposes of blood sample collection, two laboratory technicians were included in each of the 18 field teams. The laboratory technicians were recruited from Ministry of Health, nongovernmental, and private health facilities. As part of the informed consent for blood sampling, the laboratory technician explained the procedure, the fact that the equipment used was sterile and clean, the confidentiality of the data, and the tests to be performed on the blood. Respondents were also informed that they could obtain their syphilis results the following day if they wanted, that those testing positive for syphilis would be treated, and that the other test results could not be linked or made available to the respondent. The laboratory technician was instructed to ask respondents if they had any questions and then ask if they consented to the blood draw, if they wanted to receive their syphilis results the following day, and if they consented to having their blood sample be stored for future unspecified tests.

After obtaining consent, the laboratory technician drew a venous blood sample in a 4.5 ml EDTA Vacutainer tube. If respondents refused the venous blood draw, they were given an option to provide a dried blood spot sample on a filter paper card from a finger prick using a single-use, spring-loaded, sterile lancet. For children under five and youth aged 15-17 years, consent was sought from their parents or guardians to take a dried blood spot sample. Blood tubes and filter paper dried blood spot samples were labeled with a bar-coded identification label, which was also pasted on the Household Questionnaire on the line number for that respondent and on various other laboratory forms.

Before starting work in a given area, each team made arrangements to establish a temporary field laboratory, usually setting up their mobile equipment in a spare room in a laboratory attached to a hospital or health centre. Each team carried cold boxes, centrifuges, a generator, a liquid nitrogen tank, and routine laboratory supplies such as pipettes, gloves, test tubes. In the temporary field laboratory, a number of procedures were carried out on the blood samples. In the case of specimens from adults, the laboratory technicians first made a back-up dried blood spot from the venous blood samples. They then centrifuged the blood and transferred the plasma to microvials, labeled with the same bar code identification. A small aliquot was removed and tested for syphilis using the rapid plasma reagin (RPR) card test. Results were recorded on a preprinted laboratory results form that was given on the morning of the next day to the interviewer on the team who was designated to return the syphilis results to the respective respondents. Packed blood cells remaining in the EDTA Vacutainer tubes were transferred to microvials labeled with the bar code for long-term storage. Microvials containing plasma and packed blood cells were stored in liquid nitrogen tanks and their location within the tank recorded on a preprinted specimen inventory form. All dried blood spots were air-dried overnight in plastic boxes and stored at ambient temperature in lots of 20 separated by glassine paper in ziplock bags containing desiccants. Specimens were periodically

collected from the field and taken to the Uganda Virus Research Institute (UVRI). Recharged liquid nitrogen tanks and resupplies were also provided to the teams.

Syphilis results were provided to respondents who provided a venous blood sample and who indicated that they would like to get their results. At least one of the interviewers on each team was a nurse who was designated to provide the results at the respondent's home the following day. Respondents testing positive for syphilis were treated with a single injection of benzathine penicillin. Anyone who indicated being allergic to penicillin was treated with erythromycin tablets in line with national treatment guidelines.

Specimens received at UVRI were checked against the specimen shipping forms and were then registered electronically using a bar code reader. Each specimen was assigned a unique laboratory number during the registration process, and laboratory testing and storage in the repository were carried out against that number. Specimens were subjected to the following tests:

HIV: Plasma specimens from the venous blood draw were tested with a two HIV EIA parallel testing algorithm—Murex 1.2.0 (Abbott) and Vironostica Uniform II Plus O (Biomerieux)—in accordance with WHO guidelines, with repeat testing for specimens with 'grey zone' or discordant results on the two assays; Western blot was carried out to resolve specimens with repeatedly discordant results using WHO interpretative criteria. For quality control, all positive specimens and 5 percent of negative specimens were retested by the CDC laboratory in Entebbe using the same testing algorithm; specimens with discordant results were resolved by repeating the testing algorithm. Samples with discrepant results between the two laboratories were sent to Nakasero Blood Bank for 'tie-breaker' testing.

Dried blood spot specimens from children and from adults who declined the venous blood sample were tested for HIV by eluting serum from 6 mm discs punched from the blood spots. They were tested with a two HIV EIA parallel testing algorithm—Murex 1.2.0 (Abbott) and Vironostika Uniform II Plus O (Biomerieux). Specimens with unambiguously positive or negative results on both assays were reported without further testing, while all others were tested by Western blot using WHO interpretative criteria. Specimens from children less than 18 months of age with a positive or ambiguous result were further tested for HIV DNA using a polymerase chain reaction (PCR) test (Roche HIV DNA 1.5 kit).

**Syphilis:** All plasma specimens, regardless of the field result, were screened with the the rapid plasma reagin (RPR) test at a dilution of 1:8; reactive specimens were titrated at doubling dilutions and reported as positive after review by a second reader. All specimens positive on RPR and 10 percent of negative specimens were also tested with the treponemal pallidum haemaglutination assay (TPHA) test. For quality control, all positive specimens and 5 percent of negative specimens were tested using this algorithm. Specimens with discordant results were resolved by repeat testing on the same assays or were reported as indeterminate. Moreover, all positive samples and 5 percent of the negatives were retested by CDC-Uganda lab.

**Herpes simplex-2:** Specimens were tested on an HSV-2 EIA (Kalon Biological HSV Type 2 IgG indirect ELISA). Specimens with results in the defined 'grey zone' were tested again and because there is no reliable confirmatory assay, those that remain 'grey zone' were reported as 'indeterminate.' For quality control, a proportion of the positive specimens and 10 percent of negative specimens were re-tested and specimens with discordant results are reported as indeterminate. Moreover, all positive samples and 5 percent of the negatives were retested by CDC-Uganda lab.

**Hepatitis B:** Testing for Hepatitis B was performed on a nationally representative sub-sample of 6035 specimens from adults (a 1-in-3 subsample). The samples were tested with ELISA anti HBc. The number of specimens positive on this assay indicates the overall prevalence of HBV infection (resolved,

chronic, and active). Specimens positive for anti HBc were tested using HBsAg ELISA that gives the prevalence of chronic HBV infection (the algorithm adopted by CDC for determining the prevalence of hepatitis B infection among the general population). For quality control, 5 percent of positive specimens and 5 percent of negative specimens were retested at the CDC-Uganda laboratory. Specimens with results discordant between the two laboratories were resolved by repeat testing using all available assays or were reported as indeterminate.

#### 1.7 **VOUCHER SYSTEM FOR VOLUNTARY COUNSELLING AND TESTING**

Respondents who agreed to provide a venous blood sample were offered the opportunity to get the results of the syphilis test that was performed in the field laboratory. However, respondents were not offered the results of any of the other tests, including HIV.

To assist respondents who wanted to know their HIV status, survey respondents were given a voucher for a free voluntary counselling and testing (VCT) visit, as well as an educational pamphlet that summarised available services and benefits of testing. The vouchers could either be used at a nearby health facility or at an outreach point established by the UHSBS project. As part of the VCT voucher system, UHSBS project staff identified and visited health facilities that were located close to each of the sample points selected for the survey. If these facilities did not already offer VCT services, provision was made to assist the facilities to provide it during the survey period. Facilities were provided with rapid HIV test kits and other supplies and forms needed to provide VCT services. A VCT supervisor was appointed in each district and, within each of the identified facilities, two counsellors and a laboratory person were enrolled to assist with the survey. These teams were responsible for making VCT services available at the facilities and, in cases in which the selected sample spot was located far from the facility, for providing outreach VCT services in locations close to the spot. At the end of the data collection phase, UHSBS staff compiled data from all the facilities on the number of vouchers that were utilised. Unfortunately, data on voucher utilization were missing from many of the facilities, making it difficult to estimate the rate of uptake of the free voucher.

#### 1.8 HOME-BASED COUNSELING AND TESTING STUDY

After the data collection for the main UHSBS was completed, a small home-based study was implemented to test the feasibility of providing respondents with their HIV results at home. The study was implemented in 33 clusters outside of the original 417 selected for the main survey, with 11 clusters each in three regions, namely, West Nile, Western, and Central. Six of the 18 teams used for the main survey were selected to implement the home-based study.

The home-based survey was implemented almost exactly like the main UHSBS except that adult respondents in the survey were told that they could get their HIV results the following day if they wanted them. In order to provide the HIV results, 4 counselors and 1 more laboratory technician were added to each team. The extra laboratory technician performed two rapid HIV tests in the field laboratory on the plasma samples at the same time as the syphilis testing was done. They provided the HIV test results using a blinded set of field forms to the counselors who provided the results to the respondents the following day. HIV results were not provided for children, since they had only provided dried blood spot samples.

In 8 of the 33 clusters covered in the home-based study, a qualitative study was implemented to explore how and why respondents accepted the blood draw and consented to a home visit by a counsellor to learn their test results. Results from the home-based study and the companion qualitative study are not addressed in this report, but will be released in other reports (Yoder et al., 2006).

#### 1.9 **TRAINING**

The training of field staff for the UHSBS was held from 21 July to 6 August 2004. A total of 140 candidates for supervisors and interviewers were trained at the Hotel Africana in Kampala, while 46 laboratory technicians were trained at Tal Cottages in Kampala. Trainers were senior staff from the UHSBS project, assisted by staff from the Uganda Bureau of Statistics, UVRI, Ministry of Health, Makerere University, and ORC Macro.

Because of their large number, trainees for team supervisors and interviewers were divided into three groups, each with two assigned trainers. Training consisted of an overview of the survey and its objectives, techniques of interviewing, field procedures, a detailed description of all sections of the household and individual questionnaires, mock interviews between pairs of trainees, and three tests. During the second week, trainees were divided into language groups to review the questionnaires in their local languages. That week was also taken up with three days of practice in three sites close to Kampala, interspersed with discussions of the experience. A few days before the end of training, project staff identified individuals to be appointed as regional and team supervisors and these individuals were provided a half-day of special training.

The laboratory technicians were trained on blood draw procedures (for both venous and capillary blood), specimen processing in the field lab, storage and transportation of specimens, syphilis testing, lab safety procedures, labeling of samples, and consent administration. The training included a visit to the Acute Care Division of Mulago Hospital for further practice on infants and children. The laboratory technicians joined the interviewer and supervisor trainees for two days of field practice during the last few days of training. The nurse-interviewers were also trained on how to administer syphilis treatment.

An average of two training sessions were held in each of the nine designated regions for the counsellors and lab persons on the VCT teams. Training consisted of a general introduction to the survey, understanding the survey protocols, and how to use rapid HIV kits.

#### 1.10 MOBILISATION AND FIELDWORK

Prior to the start of fieldwork, UHSBS staff arranged for numerous activities designed to promote awareness of the survey and encourage participation. Posters and brochures were printed and distributed to local officials in the areas that fell within the sample. TV and radio spots and talk shows were conducted to raise awareness of the general public to the survey. Teams from the survey office visited local officials immediately before the commencement of the survey to alert them to the survey. Advocacy and mobilisation activities continued throughout the survey period to encourage participation. The purpose of the survey, its design, implementation, utilisation of survey data, and the need for community participation were discussed, as well as issues of confidentiality and reasons for anonymity of HIV testing. Finally, when the survey was launched, UHSBS staff arranged for a press briefing and 'flagging off' of the teams by the Minister of Health and other senior MOH officials. The ceremony was covered by the news media, which also helped to advocate for the survey.

Eighteen teams carried out data collection for the survey. Each team consisted of one supervisor, two female interviewers, two male interviewers, two laboratory technicians and one driver. UHSBS staff coordinated and supervised fieldwork activities, assisted by occasional visits by staff from ORC Macro. Data collection took place over a five-month period, from 14 August 2004 to the end of January 2005.

#### 1.11 **DATA PROCESSING**

The processing of the UHSBS questionnaires began shortly after the fieldwork commenced. Completed questionnaires were returned periodically from the field to the UHSBS project office in Kampala, where they were entered and edited by data processing personnel specially trained for this task. Data were entered using ORC Macro's CSPro computer programme. All data were entered twice (100 percent verification). The concurrent processing of the data was a distinct advantage for data quality, because UHSBS staff were able to advise field teams of errors detected during data entry. The data entry and editing phase of the survey was completed in early March 2005.

Laboratory testing at the HIV Reference Laboratory (HRL) at the UVRI began shortly after the data collection. Priority was given to the HIV testing, followed by syphilis testing, Hepatitis B testing and herpes simplex. Testing included quality control testing at the CDC laboratory in Entebbe.

#### 1.12 RESPONSE RATES

Table 1.1 shows response rates for the UHSBS. A total of 10,437 households were selected in the sample, of which 9,842 were found to be occupied at the time of the fieldwork. The shortfall is largely a result of structures that were vacant or destroyed. Of existing households, 9,529 were interviewed, yielding a household response rate of 97 percent.

In the households interviewed in the survey, a total of 11,454 eligible women aged 15-59 were identified, of whom 10,826 were interviewed, yielding a response rate of 95 percent. With regard to the male survey results, 9,905 eligible men aged 15-59 were identified, of whom 8,830 were successfully interviewed, yielding a response rate of 89 percent. The response rate for both sexes combined is 92 percent.

Although respondents aged 15-59 were eligible for individual interviews, the focus of the analysis in this report is on those aged 15-49. Table 1.1 shows that response rates for women and men aged 15-49 are very slightly lower than for those aged 15-59.

The principal reason for nonresponse among both eligible men and women was the nonavailability of individuals at home despite repeated visits to the household. The lower response rate for men reflects the more frequent and longer absence of men from the households. Response rates are lower in urban than rural areas, especially for men.

Results of household and individual interviews, Usanda 2004-2005           Result         Residen         Rural         Total           Household interviews           Households selected         1,853         8,584         10,437           Households occupied         1,742         8,100         9,842           Households interviewed         1,666         7,863         9,529           Household response rate         95.6         97.1         96.8           Interviews with women 15-59           Number of eligible women interviewed         1,913         8,913         10,826           Eligible woman response rate         90.4         95.5         94.5           Interviews with men 15-59           Number of eligible men interviewed         1,852         8,053         9,905           Number of eligible men interviewed         1,463         7,367         8,830           Eligible man response rate         79.0         91.5         89.1           Interviews with women and men 15-59           Number of eligible individuals interviewed         3,376         16,280         19,656           Eligible individual response rate         85.1         93.6         92.0           Interv	Table 1.1			-
Result         Urban         Rural         Total           Household interviews         1,853         8,584         10,437           Households selected         1,742         8,100         9,842           Households interviewed         1,666         7,863         9,529           Household response rate         95.6         97.1         96.8           Interviews with women 15-59         99.4         95.5         94.5           Number of eligible women interviewed         1,913         8,913         10,826           Eligible woman response rate         90.4         95.5         94.5           Interviews with men 15-59         90.4         95.5         94.5           Number of eligible men         1,852         8,053         9,905           Number of eligible men interviewed         1,463         7,367         8,830           Eligible man response rate         79.0         91.5         89.1           Interviews with women and men 15-59         Number of eligible individuals interviewed         3,369         17,390         21,359           Number of eligible individuals interviewed         3,376         16,280         19,656           Eligible individual response rate         85.1         93.6         92.0	Results of household and individual inter	rviews, U	ganda 20	04-2005
Household interviews         1,853         8,584         10,437           Households selected         1,742         8,100         9,842           Households interviewed         1,666         7,863         9,529           Household response rate         95.6         97.1         96.8           Interviews with women 15-59         Variable of eligible women interviewed         1,913         8,913         10,826           Eligible woman response rate         90.4         95.5         94.5           Interviews with men 15-59         Variable of eligible men interviewed         1,463         7,367         8,830           Eligible man response rate         79.0         91.5         89.1           Interviews with women and men 15-59         Number of eligible individuals         3,969         17,390         21,359           Number of eligible individuals interviewed         3,376         16,280         19,656           Eligible individual response rate         85.1         93.6         92.0           Interviews with women 15-49         Number of eligible women interviewed         1,827         8,146         9,973           Eligible woman response rate         90.4         95.4         94.4           Interviews with men 15-49         Number of eligible men         1,76		Resid	lence	
Households selected	Result	Urban	Rural	Total
Households occupied	Household interviews			
Households interviewed		,	,	
Household response rate   95.6   97.1   96.8	•			
Interviews with women 15-59   Number of eligible women   2,117   9,337   11,454   Number of eligible women interviewed   1,913   8,913   10,826   Eligible woman response rate   90.4   95.5   94.5     Interviews with men 15-59   Number of eligible men   1,852   8,053   9,905   Number of eligible men interviewed   1,463   7,367   8,830   Eligible man response rate   79.0   91.5   89.1     Interviews with women and men 15-59   Number of eligible individuals   3,969   17,390   21,359   Number of eligible individuals   16,280   19,656   Eligible individual response rate   85.1   93.6   92.0     Interviews with women 15-49   Number of eligible women   2,021   8,540   10,561   Number of eligible women   1,827   8,146   9,973   Eligible woman response rate   90.4   95.4   94.4     Interviews with men 15-49   Number of eligible men   1,763   7,270   9,033   1,7270   9,033   1,7270   1,727	Households interviewed	1,666	7,863	9,529
Number of eligible women       2,117       9,337       11,454         Number of eligible women interviewed       1,913       8,913       10,826         Eligible woman response rate       90.4       95.5       94.5         Interviews with men 15-59         Number of eligible men interviewed       1,852       8,053       9,905         Number of eligible men interviewed       1,463       7,367       8,830         Eligible man response rate       79.0       91.5       89.1         Interviews with women and men 15-59         Number of eligible individuals interviewed       3,969       17,390       21,359         Number of eligible individuals interviewed       3,376       16,280       19,656         Eligible individual response rate       85.1       93.6       92.0         Interviews with women 15-49       2,021       8,540       10,561         Number of eligible women interviewed       1,827       8,146       9,973         Eligible woman response rate       90.4       95.4       94.4         Interviews with men 15-49       1,763       7,270       9,033	Household response rate	95.6	97.1	96.8
Number of eligible women interviewed       1,913       8,913       10,826         Eligible woman response rate       90.4       95.5       94.5         Interviews with men 15-59       3,805       9,905         Number of eligible men       1,852       8,053       9,905         Number of eligible men interviewed       1,463       7,367       8,830         Eligible man response rate       79.0       91.5       89.1         Interviews with women and men 15-59       3,969       17,390       21,359         Number of eligible individuals interviewed       3,376       16,280       19,656         Eligible individual response rate       85.1       93.6       92.0         Interviews with women 15-49       8,540       10,561       1,827       8,146       9,973         Eligible woman response rate       90.4       95.4       94.4         Interviews with men 15-49       90.4       95.4       94.4         Interviews with men 15-49       1,763       7,270       9,033	Interviews with women 15-59			
Eligible woman response rate   90.4   95.5   94.5				
Interviews with men 15-59         Number of eligible men       1,852       8,053       9,905         Number of eligible men interviewed       1,463       7,367       8,830         Eligible man response rate       79.0       91.5       89.1         Interviews with women and men 15-59         Number of eligible individuals       3,969       17,390       21,359         Number of eligible individuals interviewed       3,376       16,280       19,656         Eligible individual response rate       85.1       93.6       92.0         Interviews with women 15-49         Number of eligible women interviewed       1,827       8,146       9,973         Eligible woman response rate       90.4       95.4       94.4         Interviews with men 15-49         Number of eligible men       1,763       7,270       9,033	Number of eligible women interviewed	1,913	8,913	10,826
Number of eligible men Number of eligible men interviewed Number of eligible individuals Number of eligible women Number of eligible women Number of eligible women Number of eligible women interviewed Number of eligible men	Eligible woman response rate	90.4	95.5	94.5
Number of eligible men interviewed  Eligible man response rate  79.0  Interviews with women and men 15-59  Number of eligible individuals Number of eligible individuals interviewed  3,376  Eligible individual response rate  3,376  Eligible individual response rate  85.1  93.6  92.0  Interviews with women 15-49  Number of eligible women Number of eligible women interviewed  Eligible woman response rate  90.4  Interviews with men 15-49  Number of eligible men  1,763  7,270  9,033	Interviews with men 15-59			
Eligible man response rate       79.0       91.5       89.1         Interviews with women and men 15-59         Number of eligible individuals       3,969       17,390       21,359         Number of eligible individuals       3,376       16,280       19,656         Eligible individual response rate       85.1       93.6       92.0         Interviews with women 15-49       3,376       16,280       19,656         Number of eligible women       2,021       8,540       10,561         Number of eligible women interviewed       1,827       8,146       9,973         Eligible woman response rate       90.4       95.4       94.4         Interviews with men 15-49       3,7,270       9,033         Number of eligible men       1,763       7,270       9,033	Number of eligible men	1,852	8,053	9,905
Interviews with women and men 15-59 Number of eligible individuals Number of eligible individuals interviewed 3,376 16,280 19,656 Eligible individual response rate 85.1 93.6 92.0  Interviews with women 15-49 Number of eligible women 2,021 8,540 10,561 Number of eligible women 11,827 8,146 9,973 Eligible woman response rate 90.4 95.4 94.4  Interviews with men 15-49 Number of eligible men 1,763 7,270 9,033	Number of eligible men interviewed	1,463	7,367	8,830
Number of eligible individuals       3,969       17,390       21,359         Number of eligible individuals interviewed       3,376       16,280       19,656         Eligible individual response rate       85.1       93.6       92.0         Interviews with women 15-49         Number of eligible women       2,021       8,540       10,561         Number of eligible women interviewed       1,827       8,146       9,973         Eligible woman response rate       90.4       95.4       94.4         Interviews with men 15-49         Number of eligible men       1,763       7,270       9,033	Eligible man response rate	79.0	91.5	89.1
Number of eligible individuals interviewed       3,376       16,280       19,656         Eligible individual response rate       85.1       93.6       92.0         Interviews with women 15-49         Number of eligible women       2,021       8,540       10,561         Number of eligible women interviewed       1,827       8,146       9,973         Eligible woman response rate       90.4       95.4       94.4         Interviews with men 15-49         Number of eligible men       1,763       7,270       9,033		3,969	17,390	21,359
Interviews with women 15-49  Number of eligible women 2,021 8,540 10,561  Number of eligible women interviewed 1,827 8,146 9,973  Eligible woman response rate 90.4 95.4 94.4  Interviews with men 15-49  Number of eligible men 1,763 7,270 9,033	Number of eligible individuals	3,376	16,280	19,656
Number of eligible women 2,021 8,540 10,561 Number of eligible women interviewed 1,827 8,146 9,973 Eligible woman response rate 90.4 95.4 94.4  Interviews with men 15-49 Number of eligible men 1,763 7,270 9,033	Eligible individual response rate	85.1	93.6	92.0
Number of eligible women 2,021 8,540 10,561 Number of eligible women interviewed 1,827 8,146 9,973 Eligible woman response rate 90.4 95.4 94.4  Interviews with men 15-49 Number of eligible men 1,763 7,270 9,033	Interviews with women 15-49			
Number of eligible women interviewed 1,827 8,146 9,973 Eligible woman response rate 90.4 95.4 94.4  Interviews with men 15-49 Number of eligible men 1,763 7,270 9,033		2,021	8,540	10,561
Interviews with men 15-49 Number of eligible men 1,763 7,270 9,033			,	
Number of eligible men 1,763 7,270 9,033	Eligible woman response rate	90.4	95.4	94.4
	Interviews with men 15-49			
	Number of eligible men	1,763	7,270	9,033
Transfer of engine men interviewed 1,507 0,022 0,005	Number of eligible men interviewed	1,387	6,622	8,009
Eligible man response rate 78.7 91.1 88.7	Eligible man response rate	78.7	91.1	88.7
Interviews with women and men 15-49	Interviews with women and men 15-49			
Number of eligible individuals 3,784 15,810 19,594 Number of eligible individuals		3,784	15,810	19,594
interviewed 3,214 14,768 17,982	interviewed	3,214	14,768	17,982
Eligible individual response rate 84.9 93.4 91.8	Eligible individual response rate	84.9	93.4	91.8

#### 2.1 **KEY FINDINGS**

- Fourteen percent of children under age 18 are orphans (i.e., they have lost one or both biological parents). The level of orphanhood has not changed in recent years.
- Three in five households get their water from a source considered as safe; almost three-fourths use traditional pit latrines. Nine percent of households have electricity.
- Ugandan households consist of an average of 5.2 members, somewhat higher than the 4.8 members found in 2000-01.

#### 2.2 Introduction

This chapter presents information on the social, economic, and demographic characteristics of the household population, focusing mainly on such background characteristics as age, sex, educational attainment, parental survivorship, children's living arrangements, place of residence, and socioeconomic conditions of households. The information provided is intended to facilitate interpretation of the key demographic, socioeconomic, and health indices, as well as the trends in these indices. It is also intended to assist in the assessment of the representativeness of the survey.

Information regarding housing characteristics, such as the type of housing and household amenities and assets, is also presented in this chapter. Finally, results regarding the level of orphanhood and fostering of children under age 18 are presented, as well as data on care and support of vulnerable children and ill adults.

In the UHSBS, a household was defined as a person or a group of persons who usually live and eat together. The Household Questionnaire was used to collect information on all usual residents and visitors who spent the night preceding the interview in the household. This method allows calculation of either the *de jure* (usual residents) or *de facto* (those there at the time of the survey) population.

One of the background characteristics used throughout this report is an index of socioeconomic status. The wealth quintile is a measure of relative household wealth that relies on straightforward questions as opposed to more elaborate income and expenditure questions. It has been tested in a number of countries in relation to inequities in household income, use of health services, and health outcomes (Rutstein et al., 2000). It is an indicator of the level of wealth that is consistent with expenditure and income measures (Rutstein, 1999).

The wealth index was constructed using household asset data and principal components analysis. Asset information collected in the UHSBS Household Questionnaire covers household ownership of a number of consumer items ranging from a television to a bicycle or car, as well as dwelling characteristics such as source of drinking water, type of sanitation facilities, and type of flooring material. Each asset was assigned a weight (factor score) generated through principal component analysis and the resulting asset scores were standardised to a normal distribution with a mean of zero and standard deviation of one (Rutstein and Johnson, 2004). Each household was then assigned a score for each asset, and the scores

were summed for each household; individuals were ranked according to the total score of the household in which they resided. The sample was then divided into quintiles from one (lowest) to five (highest).

#### 2.3 HOUSEHOLD POPULATION BY AGE, SEX, AND RESIDENCE

Like many countries with high fertility rates, Uganda has a much larger proportion of its population in the younger age groups than in the older age groups. Table 2.1 shows how the distribution of the household population declines gradually with each older five-year age group. The data also indicate slightly higher percentages of males than females under age 20 and slightly lower percentages of males than females at ages 20-39. A remarkably high proportion of the household population (53 percent) consists of children under age 15. Individuals aged 15-49 represent 38 percent of the population, while those age 50 and over account for only 9 percent of the population. The age distribution reflects Uganda's high fertility (UBOS and ORC Macro, 2001) that produces a large base of youth. The age distribution differs substantially by residence, with fewer children in urban areas than in rural areas. The age distribution in 2004-05 is almost identical to that in 2000-01 (UBOS and ORC Macro, 2001).

Table 2.1									
Household p	opulation	by age, sex,	and reside	nce, Uganda	a 2004-05				
		Urban			Rural			Total	
Age group	Male	Female	Total	Male	Female	Total	Male	Female	Total
0-4	16.9	15.4	16.1	19.7	19.3	19.5	19.4	18.8	19.1
5-9	14.2	13.4	13.8	19.4	17.8	18.6	18.9	17.3	18.0
10-14	14.7	13.9	14.3	17.2	15.1	16.1	16.9	14.9	15.9
15-19	12.2	13.5	12.9	9.3	8.3	8.8	9.7	8.9	9.3
20-24	9.6	12.4	11.1	5.4	7.6	6.6	5.9	8.2	7.1
25-29	9.2	10.2	9.7	5.1	6.9	6.0	5.6	7.3	6.4
30-34	7.7	6.4	7.0	5.1	5.6	5.4	5.4	5.7	5.6
35-39	5.0	4.4	4.7	4.0	4.4	4.2	4.1	4.4	4.3
40-44	3.5	2.7	3.1	3.3	3.3	3.3	3.3	3.2	3.3
45-49	2.3	2.6	2.4	2.4	2.5	2.4	2.4	2.5	2.4
50-54	1.4	1.5	1.5	2.2	2.2	2.2	2.1	2.1	2.1
55-59	1.2	0.9	1.0	1.5	1.3	1.4	1.5	1.3	1.4
60-64	0.8	1.0	0.9	1.4	2.2	1.8	1.3	2.1	1.7
65-69	0.4	0.6	0.5	1.4	1.4	1.4	1.3	1.3	1.3
70-74	0.4	0.6	0.5	1.0	1.0	1.0	1.0	1.0	1.0
75-79	0.3	0.3	0.3	0.6	0.4	0.5	0.6	0.4	0.5
+ 08	0.3	0.2	0.2	0.7	0.6	0.7	0.7	0.6	0.6
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number	2,747	3,012	5,759	21,503	22,533	44,036	24,250	25,544	49,794

#### 2.4 HOUSEHOLD COMPOSITION

Table 2.2 shows that 71 percent of Ugandan households are headed by men, with a slightly lower percentage in urban than in rural households (66 and 71 percent, respectively).

More than one in four Ugandan households consists of four members, while one-fifth consist of five members. The mean size of households in Uganda is 5.2 persons, somewhat larger than the 4.8 persons per household found in 2000-01. Urban households are smaller than rural households (4.3 and 5.3, respectively).

	Resid	dence	
Characteristic	Urban	Rural	Total
Sex of head of household			
Male	65.8	71.4	70.6
Female	34.2	28.6	29.4
Total	100.0	100.0	100.0
Number of usual members			
1	16.5	9.4	10.4
2	13.4	8.5	9.1
3	14.4	11.4	11.8
4	26.8	28.0	27.8
5	15.8	22.0	21.1
6	7.9	12.9	12.2
7+	5.0	7.8	7.4
Total	100.0	100.0	100.0
Mean size	4.3	5.3	5.2
Mean number of women 15-49	1.2	1.0	1.1
Mean number of men 15-49	1.0	0.9	0.9
Number of households	1,302	8,227	9,529

#### 2.5 **EDUCATION ATTAINMENT OF HOUSEHOLD POPULATION**

Educational attainment is a key determinant of an individual's life style and status. It also affects many aspects of human life, including those related to demographic and health issues. This study, like many others, shows that educational attainment is strongly associated with awareness, knowledge, attitudes, and behaviour related with HIV/AIDS. Tables 2.3.1 and 2.3.2 show the percent distribution of women and men age five and older by the highest level of education attained.

There are differences in educational attainment between women and men, especially as age increases. Twenty-six percent of women in Uganda have never been to school, compared with 15 percent of men. The proportion with no education increases steadily for both sexes starting with those in their 20s. Those with only some primary education account for 57 percent of females and 61 percent of males. The percentage of females attaining higher education levels is also lower than males. For example, the percentage who completed primary school only is 6 percent among females and 8 percent among males. Eleven percent of women have attended secondary school, compared with 15 percent of men.

Educational attainment is substantially higher in urban areas than in rural areas, with the median number of years of schooling for females being 6.0 in urban areas and 2.6 in rural areas. Among males, the difference is 5.5 in urban areas and 1.9 in rural areas. Level of education differs significantly among regions. The region with the highest educational attainment is Kampala for both females and males, while the region with the lowest is Northeast.

Table 2.3.1 Highest level of education attended by female household population age 5 and over (percent distribution), Uganda 2004-05

Background	No	Some	Complete					Median number
characteristic	education	primary	primary <sup>1</sup>	Secondary+	Missing	Total	Number	of years
Age								
5-9	30.5	68.4	0.0	0.0	1.2	100.0	4,407	0.0
10-14	3.8	91.8	2.0	2.2	0.2	100.0	3,816	2.8
15-19	6.1	52.0	12.1	29.7	0.2	100.0	2,267	5.5
20-24	16.9	44.0	12.7	26.2	0.2	100.0	2,091	5.0
25-29	22.4	46.5	11.5	19.2	0.4	100.0	1,855	3.9
30-34	30.1	44.8	10.9	14.1	0.1	100.0	1,461	3.0
35-39	32.9	44.0	12.4	10.4	0.3	100.0	1,128	2.7
40-44	42.6	35.3	10.3	11.0	8.0	100.0	828	1.5
45-49	42.3	37.4	8.6	10.9	8.0	100.0	643	1.5
50-54	50.3	35.6	5.8	7.1	1.2	100.0	535	0.0
55-59	55.1	35.1	5.3	3.6	1.0	100.0	327	0.0
60-64	70.2	21.7	1.8	1.3	5.0	100.0	534	0.0
65+	75.0	17.6	0.8	1.3	5.4	100.0	837	0.0
Residence								
Urban	10.0	44.3	10.6	34.7	0.4	100.0	2,549	5.5
Rural	27.7	58.3	5.8	7.3	0.9	100.0	18,18	1.6
Region								
Central	16.1	59.1	7.9	16.3	0.6	100.0	3,461	3.0
Kampala	7.9	35.8	11.6	44.3	0.5	100.0	1,012	6.5
East Central	20.7	57.6	7.7	13.4	0.6	100.0	3,338	2.5
Eastern	25.0	61.2	5.7	7.8	0.3	100.0	2,018	2.1
Northeast	46.4	44.3	4.0	4.1	1.2	100.0	1,671	0.0
North Central	30.4	59.1	5.1	4.3	1.1	100.0	2,230	1.3
West Nile	33.1	57.6	3.2	4.2	1.8	100.0	1,869	0.8
Western	27.5	59.9	5.0	7.1	0.6	100.0	2,388	1.8
Southwest	26.3	58.1	7.6	6.8	1.1	100.0	2,744	1.6
Wealth quintile								
Lowest	40.4	53.2	3.0	2.4	1.1	100.0	3,800	0.2
Second	30.5	59.1	5.1	4.1	1.2	100.0	4,546	1.2
Middle	27.0	61.2	5.9	5.3	0.7	100.0	3,966	1.6
Fourth	20.3	61.5	7.4	10.0	0.8	100.0	4,112	2.3
Highest	10.6	48.0	10.4	30.5	0.5	100.0	4,308	5.0
Total	25.5	56.6	6.4	10.7	0.8	100.0	20,732	2.0

Results show that educational attainment is considerably higher for those in the higher wealth quintiles. For example, the proportion of women with no education declines from 40 percent among those in the lowest quintile to 11 percent among those in the highest quintile.

These results show little change in educational attainment since 2000-01, although there has been a decline since 2000-01 in the proportion of children who have no education, which may reflect the impact of the introduction of universal basic education.

Table 2.3.2 Highest level of education attended by male household population age 5 and over (percent distribution), Uganda 2004-05

Background characteristic	No education	Some primary	Complete primary <sup>1</sup>	Secondary+	Missing	Total	Number	Mediar number of years
Age								•
5-9	31.8	66.9	0.0	0.0	1.2	100.0	4,572	0.0
10-14	3.0	92.9	2.1	1.8	0.1	100.0	4,106	2.6
15-19	3.4	54.8	11.3	30.2	0.2	100.0	2,342	5.5
20-24	6.1	37.6	14.8	41.4	0.2	100.0	1,433	6.4
25-29	10.0	43.2	15.0	31.6	0.1	100.0	1,355	5.6
30-34	10.3	43.9	16.2	29.0	0.6	100.0	1,310	5.6
35-39	12.1	45.9	13.5	27.9	0.6	100.0	999	5.3
40-44	14.9	44.4	17.9	22.3	0.4	100.0	812	5.3
45-49	16.8	41.2	19.6	22.0	0.4	100.0	575	5.1
50-54	16.1	43.7	19.6	20.2	0.5	100.0	515	4.9
55-59	20.8	47.1	15.8	15.6	0.7	100.0	354	3.9
60-64	28.0	46.4	10.1	10.0	5.6	100.0	323	3.3
65+	42.3	43.4	4.5	4.9	4.8	100.0	844	0.9
Residence								
Urban	6.1	44.4	8.4	40.3	0.8	100.0	2,283	5.9
Rural	16.4	62.6	8.1	12.1	0.8	100.0	17,263	2.6
Region								
Central	12.0	63.6	6.6	17.2	0.6	100.0	3,468	3.0
Kampala	5.3	34.0	9.4	50.2	1.2	100.0	909	6.9
East Central	13.8	61.1	7.6	16.8	0.7	100.0	2,977	2.9
Eastern	15.4	62.6	7.3	14.4	0.3	100.0	2,057	3.0
Northeast	32.3	49.0	7.1	9.5	2.0	100.0	1,539	1.5
North Central	14.6	60.8	11.5	12.6	0.6	100.0	2,059	3.4
West Nile	12.7	64.7	7.7	13.4	1.5	100.0	1,796	2.9
Western	17.5	62.2	8.8	11.2	0.3	100.0	2,241	2.5
Southwest	14.1	65.6	9.0	10.4	0.9	100.0	2,502	2.4
Wealth quintile								
Lowest	25.6	61.4	6.1	5.8	1.1	100.0	3,433	1.7
Second	18.1	63.2	8.6	9.5	0.7	100.0	4,178	2.4
Middle	14.7	66.4	8.5	9.7	0.8	100.0	3,857	2.5
Fourth	11.9	64.2	9.2	14.2	0.5	100.0	3,978	3.1
Highest	7.0	47.8	8.3	35.9	1.0	100.0	4,100	5.3
Total	15.2	60.5	8.2	15.4	0.8	100.0	19,546	2.9

#### 2.6 HOUSEHOLD CHARACTERISTICS

To assess the socioeconomic conditions in Uganda, household respondents were asked a number of questions on issues related to their household environment. These included access to electricity, the source of drinking water, sanitary facility, and type of flooring material.

Access to electricity not only opens a household to a wider number of consumer appliances, but also is a measure of socioeconomic level. Only 9 percent of Ugandan households have electricity, the same proportion found in 2000-01. There are huge differences by residence, with almost half of urban households being electrified, compared with only 3 percent of rural households (Table 2.4).

Source of drinking water is important because unsafe sources can contain waterborne diseases, including diarrhoea and dysentery. Sources of water expected to be relatively disease-free are piped water, protected or covered wells, boreholes, and protected springs. Other sources, like open wells, unprotected springs, rivers, streams, ponds, and lakes are more likely to carry pathogens that cause these diseases. Table 2.4 shows that three in five (61 percent) households have water sources considered to be safe. Urban households are greatly advantaged—90 percent have access to safe water, compared with 57 percent of rural households.

Another important aspect of household health is the type of toilet facility. This survey shows that the vast majority of Ugandan households (85 percent) still use pit latrines of some type. This proportion is similar by residence (89 percent of urban households and 85 percent of rural households), with equal proportions of both urban and rural households (63 percent) using covered traditional pit latrines. Urban households are somewhat more likely than rural households to use covered ventilated pit latrines, while rural households are more likely to use uncovered pit latrines. Thirteen percent of all households report having no toilet facility at all, almost all of which are rural households. In contrast, 10 percent of urban households have flush toilets, compared with less than 1 percent of rural households.

There has been some improvement in the availability of sanitary facilities over time, with the proportion of households having no toilet declining from 17 percent in 2000-01 to 13 percent in 2004-05.

The type of flooring material can also distinguish between socioeconomic levels of households. Survey results show that almost three in ten (58 percent) Ugandan households have dirt or earthen floors, with an additional

Housing characteristics (percent distribution), Uganda

Characteristic	Urban	Rural	Total
Electricity			
Yes	49.0	2.5	8.9
No	50.9	97.2	90.9
Total	100.0	100.0	100.0
Source of drinking water			
Pipe into dwelling	6.8	0.3	1.2
Pipe into yard/compound	8.2	0.4	1.4
Public tap	48.3	3.4	9.5
Open well	3.8	15.8	14.2
Covered well / borehole	23.1	42.3	39.7
Protected spring	4.0	10.2	9.3
Unprotected spring	1.5	9.9	8.8
River/stream	1.0	6.9	6.1
Pond/ lake/ dam	0.4	9.3	8.0
Other	2.8	1.6	1.6
Total	100.0	100.0	100.0
Type of toilet			
Flush toilet	9.8	0.2	1.5
Covered ventilated pit latrine	23.7	10.8	12.5
Covered traditional pit latrine	63.1	63.1	63.2
Uncovered pit latrine	1.8	10.8	9.6
No facility/ bush/ field	1.0	14.4	12.6
Other	0.6	0.5	0.5
Total	100.0	100.0	100.0
Flooring material			
Earth, sand	18.3	64.2	57.9
Dung	4.5	22.2	19.8
Cement	68.5	12.0	19.7
Carpet	6.0	0.3	1.1
Other	2.8	1.3	1.4
Total	100.0	100.0	100.0
Number of households	1,302	8,227	9,529
Note: Totals include a small n missing values.	umber o	f cases	with

20 percent having floors made of dung and another 20 percent with cement floors. Dirt and dung floors are much more common in rural areas, while a large majority of urban households have cement floors. The proportion of households with earth or dung floors has declined slightly over time, from 80 percent in 2000-01 to 78 percent in 2004-05. The proportion of households with concrete floors has increased from 13 to 20 percent.

#### 2.7 HOUSEHOLD DURABLE GOODS

Another indication of a household's socioeconomic status is the durable assets that it owns. Ownership of some durable goods is of interest on their own. For example, information on radio ownership is useful in planning educational outreach programmes. Data on refrigerators and cookers may be useful for nutrition programmes. These results are also used in creating the wealth quintile.

The most commonly owned durable goods are mattresses (76 percent of households), radios (60 percent), bicycles (39 percent), and clocks (23 percent— Table 2.5). Surprisingly, 10 percent of Ugandan households have a mobile phone. Only 4 percent of Ugandan households have a colour television, while 3 percent have a black and white television. Only 3 percent own a refrigerator. Motor vehicles are also rare, with only 3 percent of households owning a motorcycle and 2 percent having a car or lorry. Ownership of livestock and poultry is common (half of households). Nine percent of Ugandan households own none of the selected items.

All of the items except bicycles, livestock, and poultry are more prevalent among urban than rural households. For example, 45 percent of urban households own a mobile telephone, compared with only 5 percent of rural households. Similarly, 61 percent of urban households have clocks, compared with 17 percent of rural households.

Table 2.5			
Household possession	of durable g	goods, Ugai	nda 2004-05
	Resid	dence	
Consumer goods	Urban	Rural	Total
Clock	60.6	17.2	23.1
Mattress	94.7	73.0	76.0
Black and white television	11.9	1.3	2.8
Colour television	22.2	1.3	4.1
Radio	82.3	56.3	59.8
Mobile phone	45.1	4.6	10.1
Land line	3.2	0.1	0.5
Refrigerator	18.8	0.9	3.3
Cooker	7.5	0.3	1.3
Bicycle	23.6	41.7	39.3
Motorcycle/scooter	4.4	2.4	2.6
Car/lorry	10.1	0.9	2.2
Livestock	18.1	53.6	48.8
Poultry	20.4	55.6	50.8
None of the above	2.2	9.9	8.9
Number of households	1,302	8,227	9,529

Comparison with data from the 2000-01 UDHS shows an increase in ownership of radios, from 52 to 60 percent of households. Ownership of other goods has not changed much over time.

#### 2.8 **OWNERSHIP OF MOSQUITO NETS**

A key intervention for the prevention of malaria transmission is the use of mosquito nets while sleeping, especially ones that have been treated with insecticide. Since the UHSBS focused on issues related to HIV/AIDS, detailed questions about mosquito nets were not included. However, the Household Questionnaire included questions on whether the household had any mosquito nets and if so, how many.

One in four households has at least one mosquito net and 12 percent own more than one net (Table 2.6). The mean number of nets per household is 0.5.

Ownership of mosquito nets is considerably higher in urban areas than in rural areas. Similarly, net ownership is by far the highest in Kampala (67 percent of households), followed by Northeast region (40 percent). Households in the mountainous and less malaria-prone areas like the Southwest (13 percent), Western (18 percent), and Eastern regions (19 percent) are less likely to own a mosquito net. Mosquito net ownership increases with wealth, especially at the highest wealth quintile.

Mosquito net coverage has increased considerably. The proportion of households that have at least one mosquito net has doubled from 13 percent in 2000-01 to 26 percent in 2004-05.

Table 2.6				
Mosquito net co	verage, Uganda 1	2004-05		
	Percentage of I	nouseholds with:	Mean number	
Residence/ region	At least one mosquito net	More than one mosquito net	of nets per household	Number of households
Residence				
Urban	60.1	33.7	1.2	1,302
Rural	20.5	8.7	0.4	8,227
Region				
Central	24.6	13.3	0.5	1,790
Kampala	67.2	37.1	1.4	575
East Central	23.7	9.4	0.4	1,395
Eastern	18.9	6.1	0.3	995
Northeast	40.1	21.5	0.8	729
North Central	27.3	12.3	0.5	955
West Nile	29.8	16.7	0.6	680
Western	18.2	6.3	0.3	1,132
Southwest	13.0	3.9	0.2	1,277
Wealth quintile				
Lowest	14.1	5.2	0.2	1,831
Second	16.9	6.2	0.3	2,025
Middle	16.6	6.1	0.3	1,837
Fourth	24.6	9.3	0.4	1,841
Highest	55.9	32.6	1.2	1,994
Total	26.0	12.1	0.5	9,529

#### 2.9 ORPHANHOOD AND CHILDREN'S LIVING ARRANGEMENTS

Table 2.7 provides information regarding the living arrangements of children under age 18, including those who live with neither biological parent and those whose biological parents have died (orphans), as well as those who live with one parent or the other.

Fifty-four percent of children under 18 are living with both parents, while 20 percent live with their mothers and not their fathers, 6 percent live with their fathers and not their mothers, and 20 percent live with neither parent. Younger children are more likely than older ones to live with both parents.

The table also provides data on the extent of orphanhood, the proportion of children whose natural father or mother has died. The study reveals that 12 percent of children under 18 have lost their biological fathers, 6 percent have lost their mothers, and 3 percent have lost both parents. Altogether, 14 percent of children have lost one or both parents (i.e., they are considered to be orphans). Three percent have lost both parents ('double orphans').

Table 2.7 shows that the level of ophanhood is higher in urban areas, where 19 percent of children under age 18 have lost one or both parents, than in rural areas (14 percent). In terms of regional variation, North Central (20 percent), Kampala (18 percent), Southwest (16 percent), and Central (16 percent) regions have the highest percentages of children under 18 years having lost one or both of their biological parents. This is consistent with the regional variation in HIV prevalence (see Chapter 8). Eastern region has by far the lowest percent of children under 18 years having lost one or both of their biological parents (9 percent). The high level of orphanhood in the northern region may also be explained by the long running civil strife in that area. The level of orphanhood has remained constant since 2000-01 at 14 percent of children under 18.

Living with Background both characteristic parents	Living	Living with mother but Living not father		Living with father but not mother		Not	Not living with either parent			Missing informa-			Number
	Father alive	Father dead	Mother alive	Mother dead	Both alive	Only father alive	Only mother alive	Both dead	tion on father/ mother	Total	Percent- age orphaned	of childre <18	
Age													
0-1	70.5	23.4	1.9	0.3	0.1	2.2	0.2	0.3	0.0	1.2	100.0	2.4	3,517
2-4	62.3	17.1	3.1	3.3	0.3	10.8	0.6	1.0	0.5	1.0	100.0	5.5	5,883
5-9	53.8	12.8	5.1	5.2	1.0	13.9	1.7	3.6	2.1	0.8	100.0	13.5	8,952
10-14	45.5	11.2	7.7	6.2	2.0	13.8	2.6	5.3	4.7	0.9	100.0	22.3	7,896
15-17	36.7	9.7	9.1	5.6	2.5	17.3	2.9	6.9	7.2	2.0	100.0	28.7	2,848
<15	55.4	14.7	5.0	4.4	1.0	11.6	1.5	3.1	2.2	0.9	100.0	12.9	26,249
Sex													
Male	53.9	14.2	5.6	4.9	1.3	11.2	1.6	3.5	2.9	1.0	100.0	14.9	14,81
Female	53.3	14.2	5.3	4.2	1.1	13.3	1.7	3.5	2.5	1.1	100.0	14.0	14,285
Residence													
Urban	41.6	16.8	5.0	5.8	1.2	15.5	2.4	5.4	4.6	1.7	100.0	18.6	2,899
Rural	54.9	13.9	5.5	4.4	1.2	11.8	1.6	3.3	2.5	1.0	100.0	14.0	26,198
Region													
Central	46.9	14.4	4.7	6.3	1.4	15.6	2.4	4.1	3.4	0.9	100.0	15.9	5,014
Kampala	42.6	17.5	4.3	5.5	1.5	14.8	2.4	4.2	5.2	2.0	100.0	17.7	1,001
East Central	51.3	15.2	3.9	5.9	0.5	15.0	1.5	3.8	2.1	0.7	100.0	11.9	4,786
Eastern	64.3	8.9	2.4	5.1	1.0	11.7	1.3	2.7	1.7	1.0	100.0	9.0	2,935
Northeast	63.7	12.6	8.1	2.1	1.2	7.1	0.9	2.8	1.1	0.5	100.0	14.0	2,366
North Central	55.6	11.8	7.0	2.9	1.5	9.1	2.0	4.5	4.7	0.9	100.0	19.7	3,196
West Nile	50.6	14.5	4.8	5.7	1.0	13.1	1.7	5.0	2.1	1.4	100.0	14.7	2,673
Western	54.1	17.3	5.4	4.4	1.3	10.5	1.0	2.7	2.3	1.0	100.0	12.7	3,374
Southwest	53.7	16.0	8.4	1.9	1.4	10.5	1.7	1.7	2.9	1.7	100.0	16.2	3,752
Wealth quintile													
Lowest	54.5	14.0	6.7	3.0	1.1	12.0	1.7	3.5	2.4	1.1	100.0	15.5	5,182
Second	55.5	13.8	6.4	4.3	1.2	11.3	1.4	2.7	2.1	1.2	100.0	13.9	6,536
Middle	58.3	13.5	5.5	4.4	1.1	9.5	1.3	3.1	2.4	0.9	100.0	13.4	5,984
Fourth	55.0	12.8	4.8	5.2	1.3	12.8	1.7	3.1	2.4	0.8	100.0	13.3	5,97
Highest	43.8	17.2	3.6	5.6	1.1	15.8	2.3	5.1	4.4	1.2	100.0	16.4	5,419

Orphans are usually considered to be at a disadvantage compared with children whose parents are still alive. To assess whether orphans are educationally disadvantaged, an indicator was devised that compares the proportion of children 10-14 who are attending school among those whose parents are both dead to those whose parents are both alive and who are living with one of them. The results indicate that among children aged 10-14 whose parents are both alive and who are living with one or both parents, 94 percent are in school, compared with 89 percent of children who have lost both parents ('double orphaned') (data not shown). The ratio of school attendance among orphaned to non-orphaned children is 0.9. This implies that double orphans have a disadvantage in school attendance compared with children who are living with one or both parents. Disaggregation of this index by background characteristics is hampered by the small number of orphans in many categories.

#### 2.10 CARE AND SUPPORT FOR ORPHANS AND VULNERABLE CHILDREN

The survey also included questions about care and support that was given to households with orphans and vulnerable children (OVCs). In this context, an orphan was defined as a child under the age of 18, one or both of whose parents had died. A vulnerable child was defined as a child under 18, one or both of whose parents was living in the same household, had been very sick for at least three months

during the 12 months preceding the survey or a child living in a household in which an adult aged 15-59 has either been very ill or died in the preceding 12 months. In the case of orphans and vulnerable children, questions were added as to whether the household had received any free, external support (other than from family or friends) for each such child during the 12 months before the survey. Several types of support were detailed: medical support, social/spiritual/emotional support (e.g., companionship, counselling), material support (e.g., clothes, food, money), practical support (e.g., help with housework, legal services), and support with schooling. Results are shown in Table 2.8.

Table 2.8  External support for households with orphans and vulnerable children (OVC), Uganda 2004-05	
External support for mouseholds with orphians and value table emilien (ever), ogaina 2001 os	

		Percentage of OVCs aged 0-17 who live in households that received in the 12 months preceding the survey, free, external:								
Background characteristic	Medical support	Social, emotional support	Material support	Practical support	School support <sup>1</sup>	Any support	All five types of support <sup>2</sup>	No support	Number of OVCs aged 0-17	
Age										
0-4	9.2	3.3	2.1	1.0	na	12.4	0.2	87.6	674	
5-9	10.3	4.9	2.3	0.5	13.7	22.5	0.1	77.5	1,432	
10-14	11.4	5.3	4.1	1.2	19.4	26.1	0.3	73.9	1,964	
15-17	11.8	5.3	4.0	0.6	13.8	22.7	0.0	77.3	884	
Sex										
Male	11.5	5.0	4.0	1.0	14.7	23.7	0.3	76.3	2,567	
Female	10.1	4.9	2.5	0.7	13.5	21.5	0.1	78.5	2,387	
Residence										
Urban	5.5	2.1	3.4	1.0	8.9	13.9	0.0	86.1	640	
Rural	11.7	5.3	3.2	0.8	14.9	23.9	0.2	76.1	4,314	
Region										
Central	4.1	1.9	3.0	0.8	8.5	13.3	0.4	86.7	891	
Kampala	3.9	1.9	5.0	0.6	8.3	12.7	0.0	87.3	200	
East Central	3.4	4.5	2.7	1.9	9.1	14.0	0.2	86.0	707	
Eastern	18.3	13.7	5.1	1.2	34.1	47.3	0.3	52.7	309	
Northeast	0.6	1.0	1.2	0.0	7.1	8.3	0.0	91.7	364	
North Central	11.8	5.3	2.3	1.2	10.3	18.5	0.3	81.5	817	
West Nile	34.8	7.1	2.1	0.1	29.3	45.2	0.0	54.8	492	
Western	7.7	7.3	3.4	0.8	15.2	26.4	0.0	73.6	512	
Southwest	15.8	4.3	6.0	0.5	16.0	29.0	0.0	71.0	661	
Wealth quintile										
Lowest	15.2	5.6	3.0	0.4	17.6	27.4	0.0	72.6	975	
Second	9.5	3.9	1.6	0.8	12.3	19.7	0.2	80.3	1,069	
Middle	12.6	5.2	4.9	0.5	14.4	26.3	0.0	73.7	961	
Fourth	11.7	4.4	4.3	1.6	15.3	23.3	0.2	76.7	901	
Highest	6.0	5.4	2.9	1.1	11.5	17.2	0.4	82.8	1,048	
Total	10.9	4.9	3.3	0.9	14.1	22.6	0.2	77.4	4,954	

Note: All five types of support can be received by those aged 5-17, four types of support (excluding school) can be received by those

OVC = Orphans and vulnerable children, i.e., children aged 0-17 whose mother or father has died or who are living in a household in which a person aged 18-59 has been very sick for at least 3 months during the 12 months preceding the survey, or in which a person aged 18-59 has died in the preceding 12 months. This definition differs slightly from the standard because it omits children whose parents have been very ill in the past 12 months but who do not live in the same household, since such questions were not included in the UHSBS.

The data show that care and support services are not widespread in Uganda. Less than one in four OVCs (23 percent) receives any kind of free, external support. Only 14 percent of OVCs receive

<sup>&</sup>lt;sup>1</sup> School support received by those aged 5-17.

<sup>&</sup>lt;sup>2</sup> Those aged 0-4 included in this column if received four types of support (excluding school).

na = Not applicable

<sup>&</sup>lt;sup>1</sup> The definition of vulnerable children sometimes includes children whose mother or father was very sick in the past 12 months even if they are not living with that parent. However, detailed questions about these categories of children were not included in the UHSBS.

assistance with schooling, while 11 percent receive medical assistance. Only 5 percent receive social or emotional support, 3 percent receive material support, and less than 1 percent receive practical support. Support services are more prevalent in rural areas than in urban areas and are especially common in Eastern and West Nile regions. The prevalence of care and support services varies erratically by wealth quintile.

#### 2.11 **CARE AND SUPPORT FOR CHRONICALLY ILL ADULTS**

Table 2.9 shows the percentage of women and men aged 18-59 who were very ill for 3 or more months during the 12 months preceding the survey and whose households received free, external support in caring for these people within the 12 months preceding the survey. Also included are households that reported the death of someone in the 12 months preceding the survey who had been ill for at least three or more months before death.

The table shows that among chronically ill adults, 20 percent live in households that received medical support for them, 19 percent received social/emotional support, 6 percent received material support, and 4 percent received practical support. Less than 1 percent received all four types of support.

Looking at the place of residence, the survey data reveal that each type of support except practical support is slightly more common for adults living in rural areas than in urban areas. Support also appears to be more common in Eastern and West Nile regions and least common in Northeast, North Central, and Central regions.

It should also be pointed out that, although the intent of the question was to obtain data on the extent of care and support provided to those ill with AIDS, data from the survey indicate that less than 20 percent of adults who were reported to have been very ill for at least 3 months in the 12 months preceding the survey tested HIV positive.

Table 2.9 External support for chronically ill adults, Uganda 2004-05

Among women and men aged 18-59 who were very ill for 3 or more months during the past 12 months and persons aged 18-59 who were ill for 3 or more months before death, percentage whose households received, in the 12 months preceding the survey, free external:

	households received, in the 12 months preceding the survey, free external:								
		Social,					Number of		
Background	Medical	emotional	Material	Practical	All four types	No	chronically ill		
characteristic	support	support	support	support	of support	support	persons		
Age									
18-19	(12.6)	(17.6)	(3.6)	(4.1)	(0.0)	(75.3)	34		
20-29	20.1	16.6	5.4	4.8	1.3	70.8	214		
30-39	21.4	15.6	5.0	3.5	0.5	68.8	319		
40-49	21.2	23.7	6.9	2.3	0.8	64.8	254		
50-59	18.6	23.0	6.9	5.0	1.0	63.7	171		
Sex									
Male	23.8	21.8	5.9	3.3	0.9	63.0	475		
Female	17.0	17.0	5.9	4.2	0.7	71.7	517		
Residence									
Urban	16.5	18.3	5.4	4.8	3.7	74.7	102		
Rural	20.7	19.4	5.9	3.6	0.5	66.7	890		
Region									
Central	22.1	17.2	4.6	3.2	0.0	70.5	159		
Kampala	(21.2)	(17.3)	(9.6)	(7.7)	(3.8)	(69.2)	29		
East Central	19.3	15.5	7.3	3.5	0.9	67.8	142		
Eastern	24.9	32.5	9.0	8.8	1.3	52.8	75		
Northeast	8.7	13.6	3.5	1.2	0.0	79.0	58		
North Central	15.9	13.8	6.2	3.6	1.1	75.8	244		
West Nile	40.3	27.3	4.3	5.1	0.6	48.1	103		
Western	12.4	28.6	7.0	1.3	0.0	63.3	81		
Southwest	18.3	19.4	3.5	2.4	1.2	69.6	100		
Wealth quintile									
Lowest	20.6	13.6	6.3	2.1	0.0	71.1	218		
Second	21.0	19.2	5.9	3.3	0.5	66.3	252		
Middle	19.2	21.9	5.0	2.9	0.9	64.3	206		
Fourth	19.2	13.6	5.9	6.5	1.3	71.5	170		
Highest	21.2	30.6	6.2	4.9	1.8	64.2	146		
Total	20.3	19.3	5.9	3.8	0.8	67.5	992		

Note: Figures in parentheses are based on 25-49 unweighted cases.

#### 3.1 **KEY FINDINGS**

- Ugandan women continue to marry at a young age (median age of 18).
- Twenty-three percent of women and 8 percent of men aged 15-49 have never attended school.
- One-quarter of Ugandan men aged 15-49 are circumcised.
- Ten percent of women and 5 percent of men aged 15-49 have ever been widowed.

#### 3.2 **I**NTRODUCTION

This chapter describes some demographic and socioeconomic characteristics of the respondents sampled in the UHSBS. Examining characteristics like age, residence, education, marital status, employment, religion, and ethnicity indicates changes in these traits over time as well as differences in HIV-related knowledge, attitudes, behaviour, and prevalence among Ugandans. Although women and men aged 15-59 were interviewed individually in the survey, this report focuses on age group 15-49, because all the HIV indicators agreed to by Ugandan and international organisations are based on this age group.

#### 3.3 **BACKGROUND CHARACTERISTICS**

Table 3.1 shows the distribution of UHSBS respondents by age group. The larger proportions in younger age groups reflect adult mortality and Uganda's past high fertility, which causes each succeeding generation to be larger than the one before. Also of note are the lower proportions of men aged 20-34 than women. A similar dearth of men in their 20s was evident in the 2000-01 UDHS and may result from higher male outmigration and higher participation of men than women in these age groups in institutions such as the armed forces and prisons, which are not covered in the survey.

			Men			
Age	Weighted percent	Weighted number	Unweighted number	Weighted percent	Weighted number	Unweighted number
15-19	20.2	2,186	2,176	23.4	2,070	2,042
20-24	17.9	1,933	1,945	14.3	1,262	1,261
25-29	16.3	1,764	1,809	13.8	1,220	1,228
30-34	13.5	1,457	1,469	13.6	1,200	1,209
35-39	10.0	1,085	1,074	10.4	916	917
40-44	8.0	870	864	8.9	788	800
45-49	6.0	647	636	6.3	554	552
50-54	5.0	544	520	5.3	470	457
55-59	3.2	342	333	4.0	350	364
Total 15-49	91.8	9,941	9,973	90.7	8,010	8,009
Total 15-59	100.0	10,826	10,826	100.0	8,830	8,830

The distribution of respondents aged 15-49 by background characteristics is shown in Table 3.2. Sixty-four percent of women are married or living in an informal union, compared with only 53 percent of men. Because men marry later in life than women, more than one-third of the surveyed men (39 percent) have never married, compared with only one-fifth (22 percent) of women. On the other hand, women are four times as likely as men to be widowed (less than 6 percent and 1 percent, respectively) and more likely to be divorced or separated (8 and 7 percent, respectively). Twelve percent of women 15-49 were pregnant at the time of the survey.

The vast majority (85 percent) of respondents live in rural areas. Central and East Central regions are the most heavily populated, accounting for roughly one-third of the respondents. Most of the respondents (more than three-quarters) have had at least some formal education, with 23 percent of women and 8 percent of men aged 15-49 having never attended school. However, 46-47 percent of women and men have only attended some primary school, without completing it. Women are considerably disadvantaged in education compared with men. For example, 45 percent of men have completed primary or more, compared with only 31 percent of women. With regard to religion, more than 4 in 10 respondents are Catholic, just more than one-third are Protestant, and 13-14 percent are Muslim.

In terms of ethnic composition, the most common group is Baganda, with 18 percent of women and men. Banyankore is the second most common group, with 10 percent of women and men, followed by Basoga, which has 10 percent of the female respondents and 9 percent of male respondents. Men are more likely than women to be currently employed. Among men aged 15-49, 69 percent are currently employed, compared with 62 percent of women.

Table 3.2 Background characteristics of respondents, Uganda, 2004-05

	,	Women 15-49	)	Men 15-49			
Background	Weighted percent	Weighted	Unweighted	Weighted percent	Weighted	Unweighted	
characteristic	distribution	number	number	distribution	number	number	
Marital status							
Never married	22.3	2,220	2,238	39.2	3,140	3,103	
Married	64.0	6,358	6,406	52.9	4,237	4,300	
Widowed	5.8	581	565	1.3	100	97	
Divorced	7.9	781	764	6.6	532	509	
Pregnancy status							
Pregnant	11.5	1,147	1,161	na	na	na	
Not pregnant	87.1	8,660	8,682	na	na	na	
Unsure	1.3	134	130	na	na	na	
	1.5	134	130	па	па	па	
Residence							
Urban	15.2	1,508	1,827	15.0	1,200	1,387	
Rural	84.8	8,433	8,146	85.0	6,809	6,622	
Region							
Central	16.7	1,656	942	18.1	1,451	844	
	6.7	668	1,099	6.8	547	811	
Kampala East Central			1,099	6.6 14.3		877	
	15.6	1,555	,		1,146		
Eastern	8.6	857	915	9.6	770	822	
Northeast	8.3	829	1,246	7.6	610	913	
North Central	9.8	970	1,034	9.9	795	868	
West Nile	9.6	958	1,451	9.2	735	1,148	
Western	11.5	1,140	1,058	11.8	945	906	
Southwest	13.2	1,309	1,059	12.6	1,012	820	
Education							
No education	22.7	2,255	2,494	8.3	668	713	
Primary incomplete	46.2	4,596	4,490	46.5	3,723	3,632	
Primary complete	11.2	1,115	1,042	14.1	1,133	1,147	
Secondary+	19.7	1,957	1,927	30.9	2,477	2,506	
Secondary +	19.7	1,937	1,927	30.9	2,4//	2,300	
Employment							
Currently employed	61.6	6,121	6,252	69.4	5,555	5,423	
Employed in last 12 months	7.9	782	701	8.3	661	730	
Not employed in last 12							
months	30.5	3,029	3,008	22.3	1,788	1,851	
Ethnicity							
•	17.0	1 772	1 470	17.5	1 200	1 110	
Baganda	17.8	1,773	1,478	17.5	1,398	1,110	
Banyankore	10.2	1,010	846	10.2	818	683	
Iteso	6.4	634	788	6.5	522	652	
Lugbara/Madi	8.0	792	1,191	7.6	607	939	
Basoga	9.7	967	829	9.2	735	631	
Langi	5.3	525	564	5.8	463	513	
Bakiga	6.8	680	587	7.2	580	496	
Karimojong	3.2	316	548	2.7	213	369	
Acholi	4.8	480	508	4.5	359	387	
Bagisu/Sabiny	4.5	446	448	5.9	471	467	
Alur/Jopadhola	5.2	514	560	5.5	442	486	
Banyara	3.3	325	279	3.4	272	240	
Batoro	2.5	245	246	2.7	219	221	
All others	12.5	1,234	1,101	11.4	909	815	
Religion							
O	41.0	1161	4 224	41.0	2.250	2 505	
Catholic	41.9	4,161	4,334	41.9	3,359	3,505	
Anglican/Protestant	34.1	3,388	3,235	36.7	2,939	2,821	
Pentecostal	6.0	600	585	3.9	315	313	
Other Christian	2.7	264	257	2.9	229	202	
Muslim	13.9	1,382	1,406	13.2	1,055	1,048	
Other/None/Missing	1.5	147	156	1.3	112	120	
Total	100.0	9,941	9,973	100.0	8,010	8,009	

Note: Totals include a small number of cases with education missing; Primary complete = completed standard 7; secondary+ = attended secondary, whether or not that level was completed. na = not applicable

#### 3.4 **EDUCATIONAL ATTAINMENT**

Tables 3.3.1 and 3.3.2 show the distribution of respondents by highest level of school attended. As mentioned previously, men are better educated than women.

Younger respondents are more likely to have attended school and to have reached a higher level than older respondents. For example, only 5 percent of women 15-19 have never attended school, compared with 43 percent of women 45-49. Education among women has increased faster than education among men, helping to reduce the gender gap in education among younger respondents. For example, among respondents aged 45-49, 21 percent of men and 10 percent of women attended secondary school or higher, while among respondents aged 15-19, these percentages increase to 33 percent for men and 31 percent for women.

Respondents living in urban areas are better educated than respondents in rural areas. Among urban respondents, 6 percent of women 15-49 and 1 percent of men have never attended school, compared with 26 percent of women and 10 percent of men in rural areas. Education also differs by region. Northeast region has the highest proportion of women (47 percent) and men (26 percent) with no formal education. Kampala has the lowest percentage who have never attended school (4 percent of women and 2 percent of men) and the highest percentage to attend secondary school or higher.

	Highest le	evel of schoolin	g attended or				
Background characteristic	No education	Primary incomplete	Primary complete <sup>1</sup>	Secondary+	Total	Number of women	Median years of schooling
Age							
15-19	5.4	50.9	12.8	30.8	100.0	2,186	5.6
20-24	17.2	46.1	12.1	24.4	100.0	1,933	4.7
25-29	22.1	47.7	10.5	19.4	100.0	1,764	3.8
30-34	28.9	47.4	9.7	14.0	100.0	1,457	3.0
35-39	32.0	44.3	11.6	11.6	100.0	1,085	2.7
40-44	42.5	39.0	9.3	8.9	100.0	870	1.5
45-49	42.6	37.1	10.6	9.6	100.0	647	1.3
Residence							
Urban	6.4	27.7	14.6	51.2	100.0	1,508	7.0
Rural	25.6	49.5	10.6	14.0	100.0	8,433	3.5
Region							
Central	10.3	46.9	14.2	28.6	100.0	1,656	5.5
Kampala	4.4	20.4	16.0	59.1	100.0	668	7.8
East Central	17.8	42.0	13.8	26.3	100.0	1,555	5.1
Eastern	18.6	54.7	9.7	16.8	100.0	857	4.1
Northeast	47.3	39.0	6.0	7.3	100.0	829	0.2
North Central	27.2	55.6	8.1	9.0	100.0	970	2.9
West Nile	34.0	53.5	5.8	6.5	100.0	958	2.2
Western	25.4	51.3	9.2	13.6	100.0	1,140	3.2
Southwest	26.6	46.0	14.2	13.0	100.0	1,309	3.6
Wealth quintile							
Lowest	38.0	50.8	6.0	5.0	100.0	1,610	1.8
Second	29.7	53.2	9.1	7.8	100.0	2,038	2.9
Middle	25.7	53.3	10.4	10.2	100.0	1,849	3.2
Fourth	19.5	48.6	13.0	18.7	100.0	2,000	4.4
Highest	7.1	30.1	15.4	47.3	100.0	2,443	6.7
Total 15-49	22.7	46.2	11.2	19.7	100.0	9,941	4.1
Total 15-59	25.0	45.5	10.8	18.4	100.0	10,826	3.9

Regarding the relationship between education and wealth, the data show that the percentage of women 15-49 who have never attended school drops from 38 percent in the lowest wealth quintile to 7 percent in the highest wealth quintile. The proportion of women who completed primary school increases with wealth, as does the proportion attending secondary school or higher. Wealth is also a factor in education for men, though it is less significant than for women.

	Highest le	evel of schoolin	completed				
Background characteristic	No education	Primary incomplete	Primary complete <sup>1</sup>	Secondary+	Total	Number of men	Median years of schooling
Age							
15-19	2.5	53.2	11.4	32.7	100.0	2,070	5.7
20-24	5.0	38.3	13.8	42.9	100.0	1,262	6.4
25-29	9.6	44.0	14.0	32.4	100.0	1,220	5.7
30-34	10.0	46.0	15.9	28.1	100.0	1,200	5.5
35-39	11.9	48.5	12.8	26.6	100.0	916	5.1
40-44	14.7	46.6	17.3	21.2	100.0	788	5.1
45-49	16.6	42.7	19.4	21.2	100.0	554	4.8
Residence							
Urban	1.4	24.7	11.1	62.5	100.0	1,200	8.1
Rural	9.6	50.3	14.7	25.4	100.0	6,809	5.3
Region							
Central	8.3	49.2	10.4	32.2	100.0	1,451	5.4
Kampala	1.6	19.5	11.8	67.0	100.0	547	8.4
East Central	8.2	41.5	13.4	36.8	100.0	1,146	6.0
Eastern	7.1	47.6	13.2	31.5	100.0	770	5.7
Northeast	26.4	41.0	12.2	20.0	100.0	610	4.3
North Central	3.5	46.2	23.1	27.1	100.0	795	6.0
West Nile	4.2	54.3	14.2	27.3	100.0	735	5.4
Western	10.1	53.3	13.1	23.4	100.0	945	4.9
Southwest	7.4	53.4	17.4	21.8	100.0	1,012	5.0
Wealth quintile							
Lowest	17.4	55. <i>7</i>	12.5	14.2	100.0	1,209	4.3
Second	10.3	53.7	15.9	19.8	100.0	1,628	5.0
Middle	8.5	53.8	16.3	21.4	100.0	1,506	5.1
Fourth	6.3	49.5	15.2	29.1	100.0	1,669	5.6
Highest	2.8	27.0	11.3	58.8	100.0	1,998	7.8
Total 15-49	8.3	46.5	14.1	30.9	100.0	8,010	5.6
Total 15-59	9.2	46.3	14.6	29.8	100.0	8,830	5.6

#### 3.5 **EMPLOYMENT STATUS**

Respondents were asked whether they were employed at the time of the survey, and if not, whether they were employed in the 12 months preceding the survey. Those who had not worked were asked what they had been doing for most of the time over the previous year. Table 3.4 shows that 62 percent of women and 69 percent of men aged 15-49 were employed at the time of the survey.

The proportion of women aged 15-49 currently working increases with age until age group 30-34. From age 30 to 44 the proportion of women currently working remains relatively stable and then decreases slightly at ages 45-49. Among men, the proportion currently working increases through age 24 and then plateaus at about 87 percent. Women in rural areas are more likely to be currently employed (64 percent) than those in urban areas (50 percent), but roughly the same proportion of men in urban and rural areas are currently employed.

Women with more education are less likely to be currently employed. Men with no education through completed primary are roughly equally likely to be currently employed, while a lower percentage of men with

Table 3.4 Percentage currently employed, Uganda 2004-05

	Women	15-49	Men 1	5-49
Background	Percentage currently	Number of	Percentage currently	Number of
characteristic	employed	women	employed	men
Characteristic	employed	WOITIEII	employed	IIICII
Age				
15-19	31.7	2,186	29.5	2,070
20-24	61.8	1,933	69.2	1,262
25-29	70.5	1,764	86.8	1,220
30-34	74.5	1,457	87.4	1,200
35-39	73.5	1,085	87.7	916
40-44	74.1	870	86.7	788
45-49	71.9	647	86.2	554
Residence				
Urban	50.3	1,508	68.8	1,200
Rural	63.6	8,433	69.5	6,809
Education				
No education	68.1	2,255	75.8	668
Primary incomplete	65.1	4,596	72.2	3,723
Primary complete	59.7	1,115	78.1	1,133
Secondary+	46.8	1,957	59.4	2,477
Wealth quintile				
Lowest	66.6	1,610	66.0	1,209
Second	64.6	2,038	68.0	1,628
Middle	66.7	1,849	73.3	1,506
Fourth	62.9	2,000	69.3	1,669
Highest	50.8	2,443	69.5	1,998
Total 15-49	61.6	9,941	69.4	8,010
Total 15-59	62.4	10,826	70.8	8,830

secondary education or higher are currently working. There is no consistent relationship between employment status and wealth quintile. Among women who were not employed in the last 12 months, the primary activities were housework/child care and going to school (data not shown). Men not employed in the last 12 months were most likely to be going to school.

The proportion of women currently working has decreased since 2000-01 (from 73 to 62 percent), while the proportion of men currently working has increased from 63 to 69 percent. This implies an increase in the female unemployment rate over time, although changes in the wording of the questions could also account for differences.

### 3.6 **MARITAL STATUS**

Marriage is an important factor of exposure of women and men to sexual intercourse, which is the primary means of HIV infection in Uganda. In this report, the term 'married' refers to both formal and informal unions, such as living together. An informal union is one in which the man and woman live together for some time, intending to have a lasting relationship, but do not have a formal civil or religious ceremony. The UHSBS classifies marital status into four categories: never married, currently married, widowed, and divorced.

Almost two in three women 15-49 (64 percent) are currently married (Table 3.5). More than one in five has never married, 6 percent are widowed, and 8 percent are divorced or separated. The percentage of women who have never married declines rapidly between age 15 and 30. The proportion married increases with age until the 25-29 age group, where it peaks at 82 percent.

About half of men aged 15-49 are currently married (53 percent). Across all age groups, men are more likely than women to have never married. Men tend to marry at older ages than women. For example, while 61 percent of men aged 20-24 have never married, only 20 percent of women aged 20-24 fall into this group. Men are much less likely to be widowed (1 percent) than women (6 percent).

A comparison of data from the 2004-05 UHSBS and the 2000-01 UDHS shows age at first marriage to be increasing, especially among young women. In 2004-05, 76 percent of women aged 15-19 and 20 percent of women aged 20-24 have never married; this compares to 68 percent of women aged 15-19 and 15 percent of women aged 20-24 never having married in 2000-01.

Table 3.5 Current marital status of respondents, Uganda 2004-05

		Current r	narital status	;		
	Never			Divorced/		
Age	married	Married	Widowed	Separated	Total	Number
			WOMEN			
15-19	76.4	19.8	0.3	3.6	100.0	2,186
20-24	19.6	70.7	1.0	8.7	100.0	1,933
25-29	5.7	82.1	3.7	8.4	100.0	1,764
30-34	2.3	79.6	7.0	11.2	100.0	1,457
35-39	1.8	77.4	12.1	8.6	100.0	1,085
40-44	1.2	77.2	13.3	8.4	100.0	870
45-49	1.2	68.2	21.7	8.9	100.0	647
50-54	1.3	58.4	28.0	12.3	100.0	544
55-59	1.4	52.5	31.4	14.7	100.0	342
Total 15-49	22.3	64.0	5.8	7.9	100.0	9,941
Total 15-59	20.6	63.3	7.8	8.3	100.0	10,826
			MEN			
15-19	97.0	2.0	0.0	1.0	100.0	2,070
20-24	60.9	32.3	0.1	6.7	100.0	1,262
25-29	19.8	69.6	0.7	9.8	100.0	1,220
30-34	4.8	85.5	1.4	8.3	100.0	1,200
35-39	2.7	84.5	3.0	9.8	100.0	916
40-44	3.2	85.3	3.2	8.3	100.0	788
45-49	2.8	84.2	3.6	9.3	100.0	554
50-54	1.3	86.2	4.3	8.2	100.0	470
55-59	1.7	82.6	8.2	7.5	100.0	350
Total 15-49	39.2	52.9	1.3	6.6	100.0	8,010
Total 15-59	35.7	55.9	1.7	6.8	100.0	8,830

Note: The percentage widowed consists of those who have married but are not currently married and who had a previous spouse who died. The percentage divorced/separated consists of those who have married, are not currently married, and did not have a previous spouse who died. Thus, a divorced person who had a prior marriage end in death would be classified as

# 3.7 POLYGYNY

Polygyny was measured in the UHSBS by asking currently married women, "Besides yourself, does your husband/partner have other wives or does he live with any other women as if married?" Currently married men were asked, "At this time, do you have more than one wife or woman with whom you are living as if married?"

Table 3.6 shows that 33 percent of women and 22 percent of men are in polygynous unions. The prevalence of polygynous unions increases with age. Women living in rural areas are more likely to be in polygynous unions (33 percent) than women living in urban areas (25 percent). Women living in Kampala followed by Southwest region were least likely to be in polygynous unions. These patterns are similar among men.

Higher education is associated with lower rates of polygyny among women. Only one in four married women with secondary or higher education is in a polygynous union, compared with 39 percent of married women with no education. The relationship between education and polygyny is not as strong for men. Wealth is not associated with polygyny for women or men.

The proportion of women and men in polygynous unions is similar in the 2000-01 UDHS and the 2004-05 UHSBS.

Table 3.6 Polygynous marriages, Uganda 2004-05

	Married wor	men 15-49	Married men 15-49			
Deal are ad	Percentage in	NI salas saf	Percentage in	NI salas a C		
Background characteristic	polygynous marriage	Number of	polygynous marriage	Number of		
Characteristic	marnage	women	marnage	men		
Age						
15-19	20.9	432	(5.7)	41		
20-24	23.4	1,367	9.6	408		
25-29	30.6	1,448	14.9	850		
30-34	35.8	1,159	22.6	1,026		
35-39	42.9	840	25.2	774		
40-44	37.9	671	29.5	672		
45-49	41.2	441	25.7	466		
Residence						
Urban	24.6	732	18.3	509		
Rural	33.5	5,626	22.0	3,728		
Region						
Central	28.5	937	18.3	662		
Kampala	18.7	299	11.6	204		
East Central	43.4	990	27.7	634		
Eastern	29.0	615	19.7	403		
Northeast	39.9	622	25.4	417		
North Central	33.3	705	28.7	520		
West Nile	40.6	607	22.7	384		
Western	31.9	780	21.1	510		
Southwest	19.5	803	12.4	503		
Education						
No education	38.5	1,772	28.1	487		
Primary incomplete	31.9	3,055	20.2	1,992		
Primary complete	29.4	691	24.6	678		
Secondary+	24.6	826	19.0	1,076		
Wealth quintile						
Lowest	33.6	1,068	22.6	726		
Second	30.1	1,357	18.4	893		
Middle	31.5	1,300	23.0	871		
Fourth	33.6	1,312	22.9	885		
Highest	34.0	1,322	20.9	864		
Total 15-49	32.5	6,358	21.5	4,237		
Total 15-59	32.6	6,855	22.3	4,932		

Note: Figures in parentheses are based on 25-49 unweighted cases.

#### 3.8 RESPONDENTS WHO HAVE EVER BEEN WIDOWED

Table 3.7 shows the proportion of respondents who have ever been widowed. This information differs from current marital status presented in Table 3.5. If a woman who was widowed has since remarried in Table 2.6 she is included with the currently married group rather than widowed, whereas in Table 3.7, she is included among those who have ever been widowed. Men and women ever widowed gives an indication of adult mortality and the effect of HIV/AIDS, because some of the husbands and wives who died may have had AIDS, especially those who died at younger ages.

Ten percent of women aged 15-49 and 5 percent of men have ever been widowed. Among those aged 15-59, the proportions are slightly higher—12 percent of women and 6 percent of men.

The likelihood of being widowed increases with age. Less than 1 percent of women aged 15-19 have ever been widowed, compared with 30 percent of women aged 45-49. Nonetheless, the proportion of men and women who have been widowed at younger ages is substantial. Seven percent of women and 2 percent of men aged 25-29 have ever been widowed. Among respondents aged 30-34, the proportions who have ever been widowed rise to 12 percent for women and 5 percent for men.

The proportion of respondents widowed is slightly higher in rural areas than urban areas. North Central has the highest percentage of respondents who have been widowed (14 percent of women and 8 percent of men aged 15-49). Kampala and Northeast have the lowest percentage of respondents ever widowed. The likelihood of having been widowed decreases with level of education but not with wealth.

Table 3.7				
Percentage ever wide	wed, Ugan	da 2004-0	5	
	Womer	15-49	Men 1	15-49
	Percent-	Number	Percent-	Number
Background	age ever-	of	age ever-	of
characteristic	widowed	women	widowed	men
Age				
15-19	0.5	2,186	0.0	2,070
20-24	2.2	1,933	1.0	1,262
25-29	7.0	1,764	2.3	1,220
30-34	12.4	1,457	5.4	1,200
35-39	20.1	1,085	9.7	916
40-44	22.6	870	13.2	788
45-49	29.9	647	17.6	554
Residence				
Urban	8.5	1,508	3.9	1,200
Rural	9.9	8,433	5.1	6,809
Region				
Central	8.9	1,656	3.9	1,451
Kampala	6.3	668	3.9	547
East Central	10.5	1,555	5.1	1,146
Eastern	8.8	857	5.7	770
Northeast	8.4	829	3.2	610
North Central	14.4	970	7.5	795
West Nile	12.4	958	4.5	735
Western	8.5	1,140	5.0	945
Southwest	8.5	1,309	5.5	1,012
Education				
No education	16.2	2,255	6.4	668
Primary incomplete	9.3	4,596	5.2	3,723
Primary complete	8.5	1,115	5.8	1,133
Secondary+	3.9	1,957	3.8	2,477
Wealth quintile				
Lowest	9.3	2,002	4.1	1,555
Second	10.4	2,101	5.7	1,680
Middle	10.2	1,837	5.4	1,505
Fourth	9.7	1,778	5.4	1,492
Highest	9.0	2,221	4.3	1,777
Total 15-49	9.7	9,941	4.9	8,010
Total 15-59	12.1	10,826	6.4	8,830

# 3.9 **AGE AT FIRST MARRIAGE**

Age at first marriage may be associated with the spread of HIV, because those who marry at younger ages may be exposed earlier to the risk of contracting the virus. Tables 3.8.1 and 3.8.2 show the percentage of women and men who first married by specific ages. The data show that about one-fifth of Ugandan girls marry before their fifteenth birthday and more than half marry before age 18. The median age at first marriage among women is just under 18. There has been no significant change in the median age at first marriage among women since the 2000-01 UDHS (17.8 years for women 20-49; 17.7 years for women 20-24).

In contrast, less than one-third of men marry before reaching age 20. The median age at marriage among men is almost 22.

Table 3.8.1								
Age at first	marriage for	women, Uga	anda 2004-0	5				
Current		Percentage	first married	by exact age:		Percentage never	Number of	Median age
age	15	18	20	22	25	married	women	marriage
15-19	5.3	na	na	na	na	76.4	2,186	a
20-24	16.6	51.4	70.3	na	na	19.6	1,933	17.9
25-29	17.9	53.1	71.0	82.8	91.3	5. <i>7</i>	1,764	17.8
30-34	21.9	56.2	73.9	84.6	91.6	2.3	1,457	17.4
35-39	20.1	52.8	72.3	82.8	91.0	1.8	1,085	17.7
40-44	19.5	50.2	70.1	82.2	89.4	1.2	870	18.0
45-49	22.1	55.0	72.5	79.9	87.3	1.2	647	17.4
20-49	19.2	53.1	71.6	na	na	7.1	7,755	17.7
25-49	20.0	53.6	72.0	82.9	90.6	3.0	5,822	17.7

na = Not applicable

Table 3.8.2								
Age at first r	marriage for r	nen, Uganda	2004-05					
Current		Percentage	first married	by exact age:		Percentage never	Number of	Median ag
age	20	22	25	28	30	married	men	marriage
20-24	23.2	na	na	na	na	60.9	1,262	a
25-29	31.6	51.4	72.1	na	na	19.8	1,220	21.8
30-34	33.6	54.0	76.0	88.2	92.7	4.8	1,200	21.5
35-39	30.2	50.5	72.2	86.0	89.8	2.7	916	21.9
40-44	25.3	47.6	71.7	82.7	86.8	3.2	788	22.2
45-49	27.4	47.4	70.6	81.4	87.9	2.8	554	22.3
25-49	30.3	50.8	72.9	na	na	7.8	4,678	21.9

na = Not applicable

a = Omitted because less than 50 percent of the respondents married before reaching the beginning of the age

a = Omitted because less than 50 percent of the respondents married before reaching the beginning of the age

# 3.10 CHARACTERISTICS OF COUPLES

The 2004-05 UHSBS interviewed men and women in the same households. The data were linked for more than 4,000 cohabitating couples and are shown in Table 3.9. The wife is older than the husband in only 7 percent of couples. In one in four couples, the husband is ten or more years older than the wife. In 7 percent of couples, neither the wife nor husband has any formal education. Both wife and husband are educated in 65 percent of couples. Where education status is discordant within the relationship, it is more common for the husband to have attended school when his wife has not.

#### 3.11 MEDIA EXPOSURE OF RESPONDENTS

Information about HIV/AIDS is often carried by mass media. Having access to mass media is essential in increasing peoples' awareness and

Table 3.9 Age and education differences among couples, Uganda 2004-05

Age/education differences	Percent distri- bution	Number of couples
A		<u> </u>
Age		
Wife older	6.7	285
Husband older 0-4 years	35.2	1,495
Husband older 5-9 years	33.4	1,415
Husband older 10-14 years	15.8	671
Husband older 15 years +	8.9	376
Education		
Husband and wife both none	7.2	306
Husband some education, wife none	21.8	924
Wife some education, husband none	5.2	219
Husband and wife both some education	65.4	2,775
Education missing for one or both	0.4	19
Total	100.0	4,243

knowledge of HIV/AIDS, which may eventually affect societal norms and influence individuals' attitudes and behaviour. In the 2004-05 UHSBS, access to mass media was assessed by asking how often a respondent reads a newspaper, listens to the radio, or watches television.

In general, men have more exposure to mass media than women (see Tables 3.10.1 and 3.10.2). More than twice as many women as men say they do not have access to any of the types of media asked about (28 and 13 percent, respectively). Radio is by far the most widely used medium by both men and women. Seven in 10 women and 86 percent of men reported that they listen to the radio at least once a week. Television is the least common form of media.

Women and men in younger age groups report greater exposure to all three sources of media. Among women aged 15-19, 74 percent listen to the radio weekly compared with 65 percent of women aged 40-44. Men aged 15-19 report less access to mass media than men aged 20-24, who have greater exposure than every other age group. Urban women and men have greater access to all three sources of media than rural women and men. Television is the medium with the greatest disparity between rural and urban areas. Only 4 percent of women in rural areas watch television weekly compared with 43 percent of urban women. Kampala has the highest proportion of residents who report exposure to each of the three media sources.

Exposure to mass media increases with education and with wealth. Newspaper is the medium most sensitive to changes in level of education, because of the link between education and literacy. Fiftyfive percent of men with secondary education or higher read a newspaper at least once per week, compared with 13 percent of men with incomplete primary education and 2 percent of men with no formal education. Television is the medium most sensitive to increases in wealth. Both women and men in the highest wealth quintile have a much stronger probability of watching television once a week than those in the next highest quintile. Exposure to radio varies least with level of education or wealth.

Compared with the 2000-01 UDHS findings, exposure to newspaper and television remains the same while exposure to radio has increased. For example, weekly radio listening increased from 53 to 70 percent among women 15-49. The increase could be a result of the fact that in the 2000-01 UDHS, respondents were asked how often they accessed each type of media in the four weeks preceding the survey as opposed to 'usually.'

Table 3.10.1 Exposure of women to mass media, Uganda 2004-05

	Pe		women 15 t	o 49 who usua week:	ılly,	
Background characteristic	Read a newspaper	Watch television	Listen to the radio	Access all three media	Access no media	Number of women
Age						
15-19	24.4	12.3	73.5	6.1	21.7	2,186
20-24	14.4	11.1	72.4	5.5	26.2	1,933
25-29	12.6	11.0	69.7	5.2	29.2	1,764
30-34	9.3	7.6	68.2	3.0	30.8	1,457
35-39	9.9	7.3	66.2	4.1	33.0	1,085
40-44	8.2	5.1	65.4	3.4	33.5	870
45-49	8.7	4.8	66.0	2.2	32.7	647
Residence						
Urban	40.2	42.5	88.8	22.1	8.1	1,508
Rural	9.5	3.6	66.4	1.5	31.8	8,433
Region						
Central	22.8	15.8	79.7	8.1	17.3	1,656
Kampala	42.7	54.4	92.8	26.3	4.2	668
East Central	16.6	11.0	81.3	5.4	17.1	1,555
Eastern	7.5	3.6	61.6	1.4	37.2	857
Northeast	5.9	1.7	44.6	0.7	55.0	829
North Central	9.1	3.8	70.7	2.3	28.9	970
West Nile	15.3	0.9	44.3	0.5	48.6	958
Western	5.9	1.8	68.9	1.2	30.6	1,140
Southwest	5.4	2.7	72.1	0.9	27.3	1,309
Education						
No education	0.2	1.1	50.6	0.0	49.2	2,255
Primary incomplete	7.5	4.8	68.7	0.9	29.4	4,596
Primary complete	16.0	12.5	82.2	5.0	16.1	1 <i>,</i> 115
Secondary+	44.8	28.6	87.7	18.7	8.2	1,957
Wealth quintile						
Lowest	5.2	0.6	36.5	0.1	60.8	1,610
Second	6.4	1.1	60.1	0.2	37.9	2,038
Middle	5.9	1.3	70.4	0.2	28.4	1,849
Fourth	10.7	2.0	80.3	1.1	18.2	2,000
Highest	35.5	34.7	90.9	17.8	6.7	2,443
Total 15-49	14.1	9.5	69.8	4.7	28.2	9,941
Total 15-59	13.3	9.0	69.2	4.4	29.0	10,826

Table 3.10.2 Exposure of men to mass media, Uganda 2004-05 Percentage of men 15 to 49 who usually, at least once a week: Background Read a Watch Listen to Access all Access no Number of characteristic newspaper television the radio three media media men Age 15-19 28.5 19.0 87.1 10.8 10.7 2,070 20-24 34.4 23.1 91.1 15.2 8.0 1,262 25-29 27.9 19.6 86.7 12.7 12.2 1,220 14.5 1,200 30-34 23.2 13.2 84.7 8.6 35-39 20.4 83.5 8.3 15.7 916 11.3 40-44 20.5 11.6 86.3 8.7 13.2 788 45-49 22.7 8.8 80.3 7.2 19.2 554 Residence Urban 67.4 55.0 95.4 43.2 2.8 1,200 Rural 19.2 9.8 84.8 5.0 14.2 6,809 Region 35.1 29.8 95.7 19.1 3.7 1,451 Central Kampala 74.1 66.5 96.8 53.1 547 1.4 East Central 22.2 18.0 92.4 9.3 6.7 1,146 Eastern 22.9 10.9 87.2 6.4 11.8 770 610 Northeast 10.8 4.1 64.6 1.9 34.1 67.4 3.7 31.5 795 North Central 16.3 4.6 735 West Nile 31.6 10.2 86.1 5.7 11.8 Western 15.0 88.0 2.9 11.4 945 5.1 Southwest 1,012 20.0 86.4 2.7 11.9 5.5 **Education** 1.5 4.6 68.3 0.5 31.2 668 No education 9.0 83.7 3.2 3.723 Primary incomplete 13.1 15.1 Primary complete 22.3 12.3 87.5 6.8 11.5 1,133 Secondary+ 55.0 33.1 94.6 26.7 4.1 2,477 Wealth quintile Lowest 11.2 3.6 68.9 1.5 29.3 1,209 Second 13.1 5.0 79.7 1.8 19.1 1,628 Middle 15.5 5.6 87.3 2.4 11.8 1,506 Fourth 22.4 9.6 92.5 4.0 6.9 1,669 Highest 58.1 47.9 96.5 35.5 2.2 1,998 8,010 Total 15-49 86.3 10.7 12.5 26.4 16.5 Total 15-59 25.5 15.7 85.7 10.1 13.3 8,830

# 3.12 TRADITIONAL TATTOOING AND CUTTING AND MALE CIRCUMCISION

Table 3.11 shows that traditional tattooing and cutting of the skin is common in Uganda. If the tools are not sterilised, these practices carry a risk of spreading HIV. Forty-four percent of women and 34 percent of men report they have undergone traditional tattooing or cutting of the skin. Older women and men were more likely to have experienced this tradition. Women and men in rural areas are more likely to have traditional tattooing or cutting than those in urban areas. West Nile region has the highest proportion of women (61 percent) who have undergone these practices. Southwest region has the highest proportion of men (74 percent).

Among women, tattooing and cutting decreases with level of education. Among men, tattooing and cutting is highest among men with incomplete and complete primary education and lowest among men with secondary education or higher.

Muslim, Catholic, and Anglican/Protestant women have tattooing or cutting in roughly equal proportions (44-45 percent). Men in the three major religious groups also share similar proportions of tattooing or cutting.

	Women	15-49		Men 15-49	
Background characteristic	Percentage with tattooing or skin cutting		Percentage circumcised	Percentage with tattooing or skin cutting	Number o men
	3Kiii eddiiiig	Women	circumeised	3KIII CULLING	men
<b>Age</b> 15-19	35.9	2,186	21.8	28.1	2,070
20-24	41.0	1,933	27.1	30.5	1,262
25-29	45.2	1,764	22.5	34.4	1,202
30-34	46.6	1,457	26.6	36.7	1,220
35-39	50.0	1,085	26.0	39.8	916
40-44	53.3	870	28.3	41.8	788
45-49	53.0	647	25.6	40.3	554
Residence					
Urban	39.8	1,508	36.0	24.5	1,200
Rural	45.1	8,433	22.9	36.0	6,809
Region					
Central	37.4	1,656	23.6	20.5	1,451
Kampala	36.3	668	37.9	15.3	, 547
East Central	53.3	1,555	34.7	36.6	1,146
Eastern	40.2	857	54.7	36.7	770
Northeast	52.8	829	4.9	16.1	610
North Central	38.7	970	2.4	25.8	795
West Nile	60.5	958	29.1	49.0	735
Western	22.3	1,140	29.9	26.2	945
Southwest	55.0	1,309	7.6	74.2	1,012
Education					
No education	51.3	2,255	23.2	32.4	668
Primary incomplete	44.5	4,596	24.0	37.2	3,723
Primary complete	41.8	1,115	22.5	37.9	1,133
Secondary+	37.2	1,957	27.6	28.8	2,477
Ethnicity					
Baganda	37.8	1,773	31.3	17.4	1,398
Banyankore	53.7	1,010	9.1	62.0	818
Iteso	33.7	634	7.1	22.9	522
Lugbara/Madi	54.9	792	36.5	49.5	607
Basoga	53.5	967	35.0	44.1	735
Langi	47.6	525	1.8	36.2	463
Bakiga	42.6	680	7.3	54.7	580
Karimojong Acholi	83.6 27.4	316 480	6.0 4.8	5.8 11.0	213 359
Bagisu/Sabiny	47.9	446	80.0	26.1	471
Alur/Jopadhola	55.8	514	18.2	41.6	442
Banyara	22.9	325	15.3	19.1	272
Batoro	15.8	245	22.2	16.9	219
All others	38.6	1,228	36.7	34.8	896
Religion					
Catholic	45.1	4,161	9.5	32.9	3,359
Anglican/Protestant	44.2	3,388	17.2	37.2	2,939
Pentecostal	39.7	600	19.8	33.4	315
Other Christian	38.4	263	24.1	26.2	229
Muslim	44.1	1,382	97.3	34.5	1,055
Other/None/Missing	52.2	147	19.3	16.6	113
Total 15-49	44.3	9,941	24.8	34.3	8,010
Total 15-59	45.2	10,826	24.9	34.7	8,830

Trends in tattooing and cutting of the skin by ethnicity differ by gender. The Karimojong group has the highest percentage of women (84 percent) and lowest percentage of men (6 percent) with tattooing or cutting. Alur/Jopadhola, Lugbara/Madi, Banyankore, and Basoga all have similar proportions of women with tattooing or cutting of the skin (54-56 percent). The Batoro group has the lowest percentage of women with tattooing and cutting (16 percent). Among men, the highest proportion with tattooing and cutting are from the Banyankore group, followed by the Bakiga and Lugbara/Madi.

Circumcision is practiced in many societies in Uganda. The relationship between male circumcision and the risk of contracting HIV remains unclear. Table 3.11 shows that one-quarter of Ugandan men aged 15-49 are circumcised. There is almost no difference in circumcision by age group, implying that there has been little change in the prevalence of the practice over time. The slightly lower prevalence among men aged 15-19 could be the result of a decline in the practice, but it might also be because some of the youngest men have not yet been circumcised.

Male circumcision is more common among urban than rural men. It is also much more common among men in Eastern region (55 percent), as well as in Kampala (38 percent) and East Central region (35 percent). Less than 10 percent of men in North Central, Northeast, and Southwest regions are circumcised. Male circumcision is highest among Muslim men, 97 percent of whom have been circumcised. Prevalence is lowest among Catholic men (10 percent).

The Bagisu are the most likely to circumcise men (80 percent), followed by Lugbara/Madi, Basoga, and Baganda, roughly one-third of whom have been circumcised. Ethnic groups with the lowest proportion of men circumcised include the Langi, Acholi, Karimojong, Ateso, and Bakiga.

#### 3.13 CONTRACEPTIVE USE AMONG WOMEN

Information about use of contraceptive methods was collected from female respondents aged 15-49 by asking them if they were currently doing something or using any method to delay or avoid getting pregnant. Table 3.12 shows the level and key differentials in the current use of contraception by method as reported by currently married women. Contraceptive methods are grouped into two types in the table, namely modern and traditional methods. Modern methods include female sterilisation, pill, IUD, injectables, implants, male condom, and lactational amenorrhoea (LAM). Traditional methods include periodic abstinence (rhythm method), withdrawal, and other methods.

Seventeen percent of all women and 20 percent of currently married women are currently using any method of contraception (Table 3.12). Unmarried sexually active women are more likely than currently married women to be using a method of contraception (36 and 20 percent, respectively). Modern methods of contraception are more commonly used (19 percent of married women) than are traditional methods (1 percent). Of the modern methods, injectables are by far the most widely used (used by 10 percent of currently married women), followed by the pill (3 percent) and LAM (3 percent). Contraceptive prevalence peaks among women aged 30-34 and is lowest for women aged 15-19 and 45-49.

The data show a slight decline in contraceptive use by currently married women from 23 percent in 2000-01 to 20 percent currently. The decline is entirely a result of the drop in use of traditional methods (from 4 to 1 percent). The use of modern methods has remained more or less constant at 18-19 percent. There has been a substantial increase in use of injectables (from 6 to almost 10 percent of married women), with a slight decline in reported use of LAM.

Table 3.12 Current contraceptive use among women 15-49 by age (percent distribution), Uganda 2004-05

					Modern	method				Traditional method						
Age	Any meth- od	Any mod- ern meth- od	Fe- male steri- lisa- tion	Pill	IUD	Inject- ables	Im- plants	Male con- dom	LAM <sup>1</sup>	Any tradi- tional meth- od	Peri- odic absti- nence	With- drawal	Folk meth- od	Not cur- rently using	Total	Num- ber of wom- en
							ALL	WOME	4							
15-19	7.2	6.8	0.0	0.9	0.0	2.0	0.0	3.2	0.8	0.4	0.3	0.0	0.1	92.8	100.0	2,186
20-24	18.6	18.0	0.1	3.2	0.0	9.4	0.1	2.3	2.8	0.6	0.3	0.1	0.3	81.4	100.0	1,933
25-29	20.9	20.3	0.6	3.8	0.0	10.5	0.6	2.1	2.5	0.5	0.3	0.2	0.1	79.1	100.0	1,764
30-34	21.5	20.6	1.0	2.9	0.1	11.8	0.4	1.4	3.0	0.9	0.3	0.3	0.3	78.5	100.0	1,457
35-39	20.1	18.5	2.8	2.7	0.4	8.9	0.7	1.1	1.8	1.6	0.6	0.3	0.7	79.9	100.0	1,085
40-44	17.2	15.3	3.9	1.4	0.7	6.9	0.1	1.2	1.1	2.0	0.4	0.5	1.1	82.8	100.0	870
45-49	10.9	9.5	3.9	0.9	0.2	4.0	0.0	0.3	0.0	1.5	0.5	0.6	0.4	89.1	100.0	647
Total	16.5	15.6	1.2	2.4	0.1	7.7	0.3	2.0	1.9	0.9	0.3	0.2	0.3	83.5	100.0	9,941
						CURR	ENTLY A	/ARRIED	WOME	Ν						
15-19	12.4	12.1	0.0	2.5	0.0	5.2	0.0	0.9	3.5	0.3	0.2	0.0	0.2	87.6	100.0	432
20-24	19.3	18.8	0.1	3.4	0.0	10.4	0.1	1.0	3.7	0.5	0.2	0.1	0.2	80.7	100.0	1,367
25-29	20.1	19.5	0.8	3.9	0.0	10.2	0.5	1.0	3.0	0.6	0.3	0.2	0.1	79.9	100.0	1,448
30-34	22.6	21.5	1.2	3.1	0.1	12.2	0.4	1.1	3.3	1.1	0.4	0.3	0.4	77.4	100.0	1,159
35-39	21.7	19.9	2.8	2.8	0.4	10.0	8.0	0.9	2.2	1.8	0.7	0.4	0.7	78.3	100.0	840
40-44	20.8	18.7	5.0	1.7	0.9	8.3	0.1	1.2	1.3	2.1	0.3	0.6	1.2	79.2	100.0	671
45-49	14.4	12.8	5.2	1.0	0.3	5.7	0.0	0.4	0.0	1.6	0.4	8.0	0.4	85.6	100.0	441
Total	19.7	18.7	1.7	3.0	0.2	9.7	0.3	1.0	2.7	1.0	0.3	0.3	0.4	80.3	100.0	6,358
					SE	XUALLY	ACTIVE !	UNMAR	RIED WO	OMEN <sup>2</sup>						
15-19	29.7	29.1	0.0	4.1	0.0	5.6	0.0	19.3	0.0	0.6	0.6	0.0	0.0	70.3	100.0	98
20-24	40.1	39.1	0.0	6.0	0.0	18.5	0.0	14.6	0.0	1.0	1.0	0.0	0.0	59.9	100.0	78
25-29	49.3	49.3	0.0	9.9	0.0	23.8	0.0	15.7	0.0	0.0	0.0	0.0	0.0	50.7	100.0	80
Total	35.5	35.1	0.2	6.0	0.0	16.0	0.0	12.7	0.2	0.4	0.4	0.0	0.0	64.5	100.0	378

<sup>&</sup>lt;sup>1</sup> Refers to lactational amenorrhoea method.

Table 3.13 shows contraceptive use by background characteristics. There is wide variation in use of a modern method of contraception by residence. Forty percent of women in urban areas are currently using a modern method, compared with only 16 percent of respondents in rural areas. Among the nine regions, use of a modern contraceptive ranges from 8 percent in West Nile to 42 percent in Kampala.

Modern contraceptive use increases dramatically with education. While only 9 percent of women with no education are currently using a modern method, 39 percent of women with secondary education or higher do so. Among the lowest 4 wealth quintiles, use of a modern contraceptive method increases from 10 to 16 percent. However, 37 percent of women in the highest wealth quintile are currently using a modern method of contraception. Use of contraception also varies by the number of children a woman has. Three percent of women with no children currently use a modern contraceptive method, compared with 18 percent of women with one to two children. Surprisingly, contraceptive use does not increase much above this level for women with higher numbers of children.

<sup>&</sup>lt;sup>2</sup> Total includes age groups with too few cases to show separately.

Table 3.13 Current contraceptive use among married women 15-49 by background characteristics (percent distribution), Uganda 2004-05

					Moderr	method	d			Ti	radition	al metho	d			
Background characteristic	Any method	Any mod- ern od method	mod- male ern sterili-	Pill	IUD	Inject- UD ables I		Male con- dom	LAM <sup>1</sup>	Any tradi- tional method	Peri- odic absti- nence	With- drawal	Folk method	Not cur- rently using	Total	Number of married women
Residence																
Urban	41.3	39.7	1.7	10.5	1.1	19.8	1.1	3.5	1.9	1.7	0.8	0.5	0.4	58.7	100.0	732
Rural	16.9	16.0	1.7	2.0	0.1	8.4	0.2	0.6	2.9	0.9	0.3	0.3	0.4	83.1	100.0	5,626
Region																
Central	28.6	26.7	3.7	5.1	0.6	13.2	0.2	1.7	2.2	1.8	0.7	0.4	0.7	71.4	100.0	937
Kampala	42.9	41.7	2.2	13.8	1.8	16.3	1.2	4.9	1.4	1.2	0.8	0.0	0.4	57.1	100.0	299
East Central	21.5	20.3	1.2	3.7	0.0	11.6	0.4	1.3	2.0	1.2	0.1	0.5	0.5	78.5	100.0	990
Eastern	22.7	22.3	2.1	1.7	0.0	10.6	0.0	0.6	7.3	0.5	0.2	0.0	0.3	77.3	100.0	615
Northeast	15.6	15.3	0.6	0.7	0.1	4.0	0.1	0.2	9.6	0.3	0.1	0.0	0.2	84.4	100.0	622
North Central	12.0	11.8	1.6	0.8	0.0	7.2	0.3	0.8	0.8	0.3	0.3	0.0	0.0	88.0	100.0	705
West Nile	8.3	7.8	0.3	0.6	0.0	4.6	0.2	0.6	1.4	0.5	0.2	0.0	0.3	91.7	100.0	607
Western	16.4	15.8	0.8	3.9	0.0	9.7	0.3	0.5	0.6	0.6	0.0	0.3	0.3	83.6	100.0	780
Southwest	18.0	15.8	2.1	1.1	0.2	10.9	0.6	0.0	0.9	2.3	0.6	1.0	0.6	82.0	100.0	803
Education																
No education	9.9	9.1	1.2	0.7	0.1	4.4	0.1	0.3	2.3	0.8	0.2	0.3	0.3	90.1	100.0	1,772
Primary incomplete	17.9	16.8	1.6	2.1	0.1	8.7	0.2	0.6	3.5	1.1	0.3	0.3	0.5	82.1	100.0	3,055
Primary complete	28.6	27.8	2.1	5.2	0.0	16.3	0.3	1.6	2.3	0.8	0.4	0.3	0.1	71.4	100.0	691
Secondary+	40.1	38.7	2.8	9.3	1.0	19.7	1.2	3.2	1.3	1.5	0.8	0.2	0.4	59.9	100.0	826
Number of living children																
0	2.8	2.8	0.0	0.8	0.0	1.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0	97.2	100.0	374
1-2	18.6	17.9	0.4	3.8	0.2	9.2	0.3	1.3	2.7	0.7	0.4	0.2	0.1	81.4	100.0	1,742
3-4	20.6	20.0	1.1	3.5	0.4	10.5	0.5	0.9	3.1	0.6	0.2	0.1	0.3	79.4	100.0	1,814
5+	22.5	20.8	3.3	2.4	0.1	10.9	0.3	0.8	2.9	1.7	0.4	0.6	0.7	77.5	100.0	2,427
Wealth quintile																
Lowest	10.4	10.2	1.0	0.7	0.0	4.3	0.2	0.2	3.8	0.2	0.1	0.0	0.1	89.6	100.0	1,068
Second	14.5	13.6	1.2	1.4	0.0	7.2	0.1	0.4	3.3	1.0	0.4	0.3	0.3	85.5	100.0	1,357
Middle	16.3	14.7	1.3	1.1	0.1	7.7	0.2	0.7	3.7	1.6	0.3	0.5	0.8	83.7	100.0	1,300
Fourth	17.2	16.4	1.7	1.9	0.2	10.1	0.1	0.5	1.7	0.8	0.3	0.3	0.2	82.8	100.0	1,312
Highest	38.6	37.1	3.1	9.3	0.6	18.3	1.0	3.0	1.5	1.5	0.5	0.5	0.5	61.4	100.0	1,322
Total	19.7	18.7	1.7	3.0	0.2	9.7	0.3	1.0	2.7	1.0	0.3	0.3	0.4	80.3	100.0	6,358

<sup>&</sup>lt;sup>1</sup> Refers to lactational amenorrhoea method.

#### 3.14 Number of Children Ever Born

Table 3.14 shows that the mean number of children ever born to all female respondents is 3.7 children. The mean number of living children is 3. Among currently married women, the mean number of children ever born is 4.8, and the mean number of living children is 3.9. As expected, the mean number of children ever born and living increases with age. This table shows fertility in Uganda continues at high levels. For example, 56 percent of women aged 25-29 have given birth to at least four children while 16 percent have given birth to six or more children.

				Number	of childre	n ever bo	rn					Number of	Mean number of children	Mean number o living	
Age	0	1	2	3	4	5	6	7	8	9	10+	Total	women	ever born	children
							ALL	WOMEN							
15-19	78.9	14.8	5.1	0.9	0.2	0.1	0.0	0.0	0.0	0.0	0.0	100.0	2,186	0.29	0.25
20-24	17.5	21.4	25.2	20.2	10.3	3.7	1.4	0.1	0.1	0.1	0.1	100.0	1,933	2.04	1.72
25-29	5.0	7.8	11.8	19.3	22.5	17.2	9.7	4.5	1.4	0.6	0.2	100.0	1,764	3.73	3.17
30-34	2.2	3.9	6.7	8.2	13.2	18.5	18.5	14.1	8.0	4.2	2.5	100.0	1,457	5.25	4.36
35-39	2.5	3.8	4.9	3.2	7.0	11.2	14.2	13.4	16.2	11.2	12.4	100.0	1,085	6.51	5.25
40-44	1.9	3.5	3.4	4.3	5.8	7.9	10.8	11.9	14.9	11.0	24.7	100.0	870	7.23	5.60
45-49	2.7	3.5	3.4	3.8	4.4	7.6	7.6	13.4	14.0	11.4	28.0	100.0	647	7.46	5.71
Total	22.6	10.3	10.2	9.7	9.5	8.9	7.7	6.3	5.4	3.7	5.7	100.0	9,941	3.72	3.02
						CUF	RENTLY A	AARRIED V	NOMEN						
15-19	28.5	43.8	22.4	3.4	1.1	0.7	0.0	0.0	0.0	0.0	0.0	100.0	432	1.07	0.90
20-24	4.7	19.9	30.1	24.7	13.3	5.0	1.9	0.1	0.1	0.1	0.1	100.0	1,367	2.48	2.10
25-29	2.0	6.4	11.0	19.9	24.3	18.4	10.7	4.9	1.6	0.7	0.1	100.0	1,448	3.96	3.37
30-34	1.2	3.1	4.8	7.4	12.0	18.8	20.6	15.6	9.3	4.7	2.7	100.0	1,159	5.54	4.62
35-39	1.9	2.5	4.4	2.9	5.4	10.6	14.1	14.1	16.5	12.6	15.0	100.0	840	6.86	5.57
40-44	1.9	3.5	2.7	3.8	3.5	6.7	10.7	11.7	15.7	11.5	28.4	100.0	671	7.53	5.88
45-49	2.5	2.2	2.7	2.7	3.0	6.3	7.3	12.4	15.1	12.0	33.7	100.0	441	7.95	6.12

# 3.15 **BIRTH REGISTRATION**

The UHSBS included a question for all women who had given birth in the five years preceding the survey as to whether their most recent birth had been registered. It is important to note that the question did not describe what was meant by registration, so it is possible that the results are not highly accurate. Data in Table 3.15 show that 41 percent of births in the last five years are reported to have been registered. Although similar data were collected in the 2000-01 UDHS, it is not possible to establish trends.1

Birth registration is higher in urban areas and among births to mothers in the highest wealth quintile. West Nile region has the highest rate of birth registration, with 82 percent of births registered. Older births are slightly more likely to be registered than those born more recently.

A follow-on question in the survey established that, of women who said their most recent birth in the previous five years had been registered, 42 percent said the birth was registered at a health centre, 34 percent said the birth was registered at a hospital, and 15 percent said they registered the birth with the local authorities (data not shown). Whereas hospitals and local councils do register births, registration at health centres is less common and may indicate some over-reporting of the level of birth registration.

<sup>&</sup>lt;sup>1</sup> Because of a skip error in the 2000-01 UDHS questionnaire, the results regarding birth registration are erroneous.

Table 3.15 Birth registration, Uganda 2004-05 Number of births in the Background Percentage 5 years characteristic registered1 before survey<sup>1</sup> Years before survey < 2 years 39.5 3,717 2-4 years 43.6 2,000 Residence Urban 60.3 685 Rural 38.3 5,032 Region 46.5 933 Central Kampala 58.8 285 East Central 29.2 905 Eastern 35.6 524 Northeast 31.6 480 640 North Central 48.1 West Nile 82.1 543 689 Western 17.1 717 Southwest 36.7 Wealth quintile Lowest 38.9 974 38.3 Second 1,245 Middle 36.0 1,182 Fourth 36.7 1,162 Highest 54.8 1,154 Total 40.9 5,717

 $<sup>^{\</sup>mbox{\scriptsize 1}}$  If a woman had more than one birth in the five years preceding the survey, the data refer to only the most recent birth.

# 4.1 **KEY FINDINGS**

- Ninety-nine percent of Ugandans aged 15-49 have heard of AIDS.
- The radio is by far the most important source of information about HIV/AIDS.
- Awareness of the modes of HIV transmission is high, with almost 90 percent of adults knowing that having only one uninfected, faithful partner can reduce the chances of getting AIDS.
- Rejection of misconceptions related to HIV is also widespread; 74 percent of women and 84 percent of men know that a healthy-looking person may be HIV positive and four in five know that HIV cannot be transmitted by sharing food with someone who has AIDS.

#### 4.2 INTRODUCTION

Acquired Immune Deficiency Syndrome (AIDS) is caused by a human immunodeficiency virus (HIV) that weakens the immune system, making the body susceptible to opportunistic diseases that often lead to death. The predominant mode of HIV transmission is through heterosexual contact, followed in magnitude by perinatal transmission, in which the mother passes the virus to the child during pregnancy, delivery or breastfeeding. Other modes of transmission are through infected blood and unsafe injections.

Information obtained from the UHSBS provides an assessment of the level of knowledge regarding transmission of the AIDS virus among Ugandan adults. Survey respondents were asked if they

had ever heard of AIDS, about their main source of information, about specific means of transmission of the virus, and if they were aware of mother-to-child transmission. Respondents were also asked about HIV discordance within couples, antiretroviral therapy, and stages of mother-to-child HIV transmission.

# 4.3 AWARENESS OF AIDS

Survey results indicate that 99 percent of Ugandan women and men aged 15-49 have heard of AIDS (Table 4.1), with more than 90 percent of respondents in all age groups, regions, residence and education groups having heard of AIDS (data not shown). Overall, the level of awareness of AIDS for both women and men has not changed since 2000-01.

Table 4.1			
Awareness of AIDS and main source of infor	mation, Uຢູ	ganda 20	04-05
Awareness/source	Women 15-49	Men 15-49	Both sexes
Percentage who have heard of AIDS	98.6	99.1	98.8
Main source of information (% distribution)			
Radio	52.6	59.4	55.7
Television	0.6	0.9	0.7
Film/drama	0.6	1.4	0.9
Newspapers/magazines	1.0	3.3	2.0
Brochures/community notices	1.0	0.7	0.8
Family	7.0	1.5	4.5
Friends/peers	13.0	8.9	11.1
Health workers	13.3	11.3	12.4
Teachers	4.6	5.9	5.2
Political/traditional leaders	0.4	0.4	0.4
Religious leaders	1.5	0.8	1.2
Seminars/meetings/workshops	0.5	0.9	0.7
Direct experience with AIDS patient	1.2	2.4	1.7
Other/never heard of AIDS	2.7	2.4	2.6
Total	100.0	100.0	100.0
Number of respondents	9,941	8,010	17,950

By far the most important source of information about AIDS is the radio, cited by 56 percent of respondents. Health workers, friends, teachers, and family are the only other main sources of information. The only major gender difference is that women are more likely than men to cite family as the main source of information about AIDS.

Table 4.2

The most important messages obtained from the sources cited were related to the ABC strategy, namely, abstinence, being faithful to one partner, and using condoms, with condom use being slightly more commonly mentioned than the other two messages, especially among men (Table 4.2). The message that AIDS is fatal was also commonly mentioned, by one in ten respondents. Although other messages may also have been widely received, the question asked about the most important message only, so the others were not so commonly cited.

There are only minor differences in the types of messages mentioned by women and men.

# 4.4 **K**NOWLEDGE OF MEANS OF AVOIDING AIDS

Abstaining from sex, being faithful to one uninfected partner, and using condoms are

Most important HIV/AIDS message learned from main source, Uganda 2004-05

	Women	Men	Both
Message	15-49	15-49	sexes
Abstain from sex	21.6	20.3	21.1
Use condoms	20.7	36.6	27.8
Limit sex to 1 partner/stay faithful	28.2	21.0	25.0
Limit number of partners	3.0	3.1	3.1
Follow the ABCs	1.4	1.2	1.3
Avoid sex with prostitutes/those who			
have many partners	0.9	0.7	0.8
Avoid injections/blood transfusions	0.4	0.3	0.4
Antiretroviral drugs available	0.3	0.1	0.2
Prevent mother-to-child transmission	0.5	0.1	0.3
Avoid discrimination against those			
with AIDS	0.7	0.2	0.5
Anyone can get AIDS	1.0	0.5	0.8
Get tested for AIDS	5.5	3.2	4.5
AIDS is a killer	10.3	9.8	10.1
Don't take chances	1.2	0.6	0.9
Other	4.3	2.3	3.4
Total	100.0	100.0	100.0
Number of respondents	9,941	8,010	17,950

important ways to avoid the spread of HIV/AIDS. To ascertain the depth of knowledge about modes of HIV/AIDS transmission, respondents were asked specific questions about whether it is possible for people to reduce their chances of getting AIDS by having just one sexual partner who is not infected and has no other partners, by using a condom at every sexual encounter, and by not having sex at all. Table 4.3 shows the percentage of women and men by their answers to these questions.

The results show that knowledge of HIV prevention methods is widespread. More than 4 in 5 respondents (88 percent of women and 90 percent of men) indicate that the chances of getting the AIDS virus can be reduced by limiting sex to one partner who is not infected and who has no other partners. Sixty-eight percent of women and 77 percent of men said that people could reduce their chances of getting the AIDS virus by using condoms every time they have sex. Knowledge of both these means of avoiding HIV transmission is also high, with 63 percent of women and 72 percent of men citing both as ways of reducing the risk of getting the AIDS virus. As expected, the proportion of both women and men who know that abstaining from sex reduces the chances of getting the AIDS virus is high—87 percent among women and 85 percent of men. For each of these knowledge indicators, men are slightly more informed than women, especially about condom use.

Respondents in their early 20s are most likely to know the major ways to avoid getting HIV/AIDS, while those in their 40s are the least likely. Similarly, women and men who have never married, but who have been sexually active, are the most likely to know about the major means of avoiding HIV. Urban residents and those living in Central, East Central, and Kampala regions are more knowledgeable than other respondents. Women in West Nile and Northeast regions and men in North Central and Northeast regions are the least informed about ways to avoid getting HIV/AIDS. Both education and wealth quintile are strongly correlated with knowledge about AIDS prevention.

Table 4.3 Knowledge of ways to reduce the chances of getting the AIDS virus, Uganda 2004-05

		W	omen 15-49/					Men 15-49		
Background characteristic	Using condoms	Limiting sex to one uninfected, faithful partner	Using condoms and limiting sex <sup>1</sup>	Abstaining from sex	Number of women	Using condoms	Limiting sex to one uninfected faithful, partner	Using condoms and limiting sex <sup>1</sup>	Abstaining from sex	Number of men
Age							•			
15-19	70.9	86.8	64.2	86.2	2,186	79.3	86.3	71.5	85.1	2,070
20-24	71.4	90.6	67.3	87.0	1,933	83.4	90.5	77.8	86.8	1,262
25-29	69.6	88.6	64.7	85.8	1,764	80.0	91.0	75.5	83.2	1,220
30-39	66.7	87.9	61.3	86.8	2,542	76.5	90.3	71.9	84.7	2,116
40-49	60.3	88.4	56.2	87.1	1,516	68.0	90.9	64.6	82.7	1,342
15-24	71.2	88.6	65.7	86.6	4,119	80.9	87.8	73.9	85.7	3,332
Marital status										
Never married	70.4	88.2	64.9	87.1	2,220	79.9	87.5	72.8	86.0	3,140
Ever had sex	83.1	92.0	78.4	91.6	879	85.3	89.7	78.6	87.4	1,701
Never had sex	62.1	85.6	56.1	84.2	1,342	73.6	84.9	66.0	84.4	1,439
Currently married	66.6	88.5	61.7	86.1	6,358	75.2	90.7	71.1	83.5	4,237
Formerly married	71.3	88.1	65.5	87.8	1,362	79.6	91.4	74.7	84.5	633
Residence										
Urban	80.9	92.8	76.4	92.8	1,508	85.4	93.4	80.9	90.4	1,200
Rural	65.8	87.6	60.5	85.5	8,433	76.0	88.8	70.5	83.6	6,809
Region										
Central	86.4	91.3	79.7	92.8	1,656	89.8	92.6	83.6	93.5	1,451
Kampala	83.4	96.3	80.5	95.1	668	88.8	96.5	85.6	96.1	547
East Central	88.4	95.0	84.9	93.9	1,555	88.5	91.9	82.9	93.2	1,146
Eastern	73.0	93.7	70.6	90.4	85 <i>7</i>	85.5	92.9	80.6	95.2	770
Northeast	40.6	81.9	38.0	68.8	829	60.3	80.7	58.3	72.1	610
North Central	60.4	86.3	52.6	85.6	970	62.9	81.0	56.1	58.6	795
West Nile	52.6	62.4	38.0	70.4	958	77.0	90.8	71.4	88.3	735
Western	58.6	90.6	54.5	81.9	1,140	68.6	82.1	59.3	66.9	945
Southwest	52.4	91.9	50.7	90.9	1,309	65.1	93.6	62.6	89.6	1,012
Education										
No education	47.6	80.2	41.8	77.9	2,255	57.3	76.9	51.7	71.0	668
Prim. incomplete	70.1	88.7	64.5	86.8	4,596	76.5	88.5	70.3	83.9	3,723
Primary complete Secondary+	77.2 81.8	92.4 94.9	72.3 78.4	90.8 93.8	1,115 1,957	78.7 83.6	91.2 93.5	73.9 79.3	84.6 89.3	1,133 2,477
Wealth quintile	01.0	54.5	70.4	55.0	1,557	05.0	99.9	7 5.5	05.5	2,777
Lowest	53.0	80.5	47.0	77.3	1,610	68.8	82.9	62.9	77.9	1,209
Second	61.9	85.2	56.1	83.5	2,038	74.2	87.8	68.5	81.1	1,628
Middle	67.2	88.5	61.7	87.9	1,849	76.6	90.7	71.5	83.8	1,506
Fourth	71.6	91.6	66.8	88.9	2,000	78.8	89.8	72.9	86.7	1,669
Highest	81.0	93.5	76.9	92.4	2,443	84.7	93.5	80.2	90.2	1,998
Total 15-49	68.1	88.4	62.9	86.6	9,941	77.4	89.5	72.0	84.6	8,010
Total 15-59	66.7	88.2	61.7	86.6	10,826	76.0	89.4	70.8	84.4	8,830

<sup>&</sup>lt;sup>1</sup> Percentage who, in response to a prompted question, say that people can reduce the risk of getting the AIDS virus by using a condom every time they have sex and by having sex with just one partner who is not infected and who has no other partners.

# 4.5 **KNOWLEDGE OF MOTHER-TO-CHILD TRANSMISSION**

Current strategies in Uganda call for reducing the mother-to-child transmission of HIV. Increasing the level of general knowledge of transmission of the virus from mother to child and of knowledge about the use of antiretroviral drugs is critical to achieving this goal.

All women and men interviewed in the UHSBS were asked if the virus that causes AIDS can be transmitted from a mother to a child. If the answer was in the affirmative, they were further asked whether the virus could be transmitted during pregnancy, during delivery, and/or during breastfeeding. They were also asked if there are any special drugs that a doctor or nurse can give to a pregnant woman who is infected with the AIDS virus to reduce the risk of transmission to the baby.

More than half of women (58 percent) and men (55 percent) know that HIV can be transmitted from a mother to her child by breastfeeding (Table 4.4). Knowledge about antiretroviral drugs is only slightly less widespread, 47 percent of women and 52 percent of men know that there are special drugs that a doctor or nurse can give to a pregnant woman infected with the AIDS virus to reduce the risk of transmitting the virus to the baby. The combined indicator shows that only 35 percent of women and men know that HIV can be transmitted through breastfeeding and that the risk can be reduced by special drugs.

		Womer	า 15-49			Men	15-49	
Background characteristic	HIV can be transmitted by breast- feeding	MTCT can be reduced by mother taking special drugs during pregnancy	Knows both <sup>1</sup>	Number of women	HIV can be transmitted by breast- feeding	MTCT can be reduced by mother taking special drugs during pregnancy	Knows both <sup>1</sup>	Number of men
Age								
15-19 20-24 25-29 30-39 40-49	56.3 60.6 59.8 56.6 54.3	45.1 51.1 50.8 46.3 43.4	34.3 39.8 37.9 34.4 31.6	2,186 1,933 1,764 2,542 1,516	57.3 56.0 54.7 53.2 53.3	47.7 53.9 57.8 53.0 48.1	33.9 36.8 37.5 35.5 32.2	2,070 1,262 1,220 2,116 1,342
Marital status								
Never married Ever had sex Never had sex Currently married Formerly married	57.1 65.4 51.6 57.9 56.2	48.9 63.7 39.2 46.3 49.2	36.9 48.5 29.4 34.9 36.9	2,220 879 1,342 6,358 1,362	57.5 59.2 55.5 52.9 56.3	51.2 55.7 45.9 51.8 53.2	36.1 40.3 31.2 34.3 34.8	3,140 1,701 1,439 4,237 633
Residence				- /				
Urban Rural	64.4 56.3	71.9 42.9	52.1 32.7	1,508 8,433	61.1 53.9	70.3 48.4	47.7 32.8	1,200 6,809
Region								
Central Kampala East Central Eastern Northeast North Central West Nile	66.7 69.5 63.2 49.3 48.6 52.6 40.3	73.9 79.4 61.7 28.1 22.9 29.0 16.0	55.1 58.4 45.9 20.3 15.5 21.0	1,656 668 1,555 857 829 970 958	64.8 62.5 57.9 43.8 35.8 48.7 47.6	76.7 75.2 60.0 31.2 30.8 35.2 24.4	53.3 50.7 40.4 20.4 17.9 22.1 16.4	1,451 547 1,146 770 610 795 735
Western Southwest	57.2 60.4	48.2 43.9	37.5 36.9	1,140 1,309	56.0 62.7	49.1 57.1	33.6 41.1	945 1,012
Education No education Primary incomplete Primary complete Secondary+	49.9 55.2 61.3 69.4	26.3 43.9 60.3 72.2	20.3 32.2 44.8 56.1	2,255 4,596 1,115 1,957	46.7 55.2 52.7 57.9	31.9 46.3 53.5 64.4	25.2 31.9 34.4 42.8	668 3,723 1,133 2,477
Wealth quintile								
Lowest Second Middle Fourth Highest	45.8 54.7 56.3 59.2 67.1	27.0 37.5 42.7 48.9 71.0	18.7 28.7 32.6 36.7 54.0	1,610 2,038 1,849 2,000 2,443	45.3 53.0 55.5 56.0 61.1	32.2 42.8 48.4 55.8 69.8	21.2 29.7 33.3 37.3 47.2	1,209 1,628 1,506 1,669 1,998
Total 15-49	57.5	47.3	35.6	9,941	54.9	51.7	35.0	8,010
Total 15-59	56.9	46.3	34.8	10,826	54.7	51.7	34.8	8,830

<sup>&</sup>lt;sup>1</sup> Percentage who say that HIV can be transmitted by breastfeeding and there are special drugs that a doctor or nurse can give to a pregnant woman infected with the AIDS virus to reduce the risk of transmission to the baby.

Knowledge of mother-to-child transmission and of antiretroviral drugs varies little by age or by marital status, except that those who have never married but have had sex tend to be more knowledgeable than those who have never had sex. Urban residents and those in Central, Kampala, and North Central regions are more knowledgeable than other respondents. Information programmes might want to target residents of West Nile and Northeast regions. There is a steady increase in knowledge of mother-to-child transmission by education and wealth quintile among both women and men.

The percentage of respondents who know that HIV/AIDS can be transmitted from mother to child by breastfeeding has increased since 2000-01 (from 46 to 58 percent among women and from 43 to 55 percent among men).

# 4.6 REJECTION OF MISCONCEPTIONS ABOUT AIDS TRANSMISSION

In addition to knowing about effective ways to avoid contracting HIV/AIDS, it is also useful to be able to identify incorrect beliefs about AIDS to eliminate misconceptions. Common misconceptions about AIDS include the idea that all HIV-infected people appear ill and the belief that the virus can be transmitted through mosquito or other insect bites, by sharing food with someone who is infected, or by witchcraft or other supernatural means. Respondents were asked about these four misconceptions.

Data shown in Tables 4.5.1 and 4.5.2 indicate that the vast majority of Ugandan adults know that people infected with HIV do not necessarily show signs of infection. Seventy-four percent of women and 84 percent of men know that a healthy-looking person can have the virus that causes AIDS.

Considerably fewer respondents understand that the AIDS virus cannot be transmitted by mosquito bites: 56 percent of women and 58 percent of men know that AIDS cannot be transmitted by mosquito bites. Similarly, 77 percent of women and 80 percent of men know that people cannot get the AIDS virus by sharing food with a person who has AIDS.

Looking at all three beliefs together, 39 percent of women and 46 percent of men have correct knowledge on all these issues. Respondents were also asked if they thought that people could get the AIDS virus because of witchcraft or other supernatural means. The vast majority of Ugandans reject this idea, with 85 percent of women and 88 percent of men saying witchcraft is not a means of transmission.

As with many other indicators of HIV/AIDS knowledge, results on rejection of misperceptions regarding HIV/AIDS is higher among respondents in urban areas and in Central, Kampala, and East Central regions. Educational attainment is correlated with rejection of misperceptions. Although there is a correlation between rejection of misperceptions and the wealth quintile, it is not so strong as it is for other indicators and mostly appears among those in the highest quintile.

There has been a slight decline in the some aspects of basic knowledge about HIV/AIDS over the last four years in Uganda. For example, the proportion who know that it is possible for a healthy-looking person to have the AIDS virus has decreased from 77 percent in 2000-01 to 74 percent in 2004-05 among women and from 88 to 84 percent of men. Similarly, the proportion of men who know that HIV cannot be transmitted by mosquito bites has hardly changed (from 56 percent in 2000-01 to 58 percent in 2004-05), and the proportion of men who say that people cannot get the AIDS virus by sharing food with someone who has AIDS has stayed steady at 80 percent. However, the proportion of women who know that HIV cannot be transmitted by insect bites has increased from 45 percent in 2000-01 to 56 percent in 2004-05 and the proportion who say that people cannot get the AIDS virus by sharing food with someone who has AIDS has increased from 67 to 77 percent of women.

Table 4.5.1: Women Rejection of common misperceptions regarding HIV/AIDS, Uganda 2004-05

		Percentage o	f women 15-49 w	ho know that:		
Background characteristic	A healthy- looking person can have the AIDS virus	People cannot get the AIDS virus from mosquito bites	People cannot get AIDS by sharing food with a person who has AIDS	A healthy- looking person can have AIDS and mosquito bites and sharing food cannot transmit AIDS	People cannot get the AIDS virus through witchcraft or supernatural means	Number of women
Age						
15-19	68.2	61.9	76.9	39.0	86.8	2,186
20-24	74.9	57.4	77.4	39.5	85.6	1,933
25-29	77.2	54.8	78.6	40.2	84.9	1,764
30-39	76.4	54.6	76.3	38.4	83.5	2,542
40-49	73.5	51.2	73.7	35.2	81.5	1,516
15-24	71.3	59.8	77.1	39.2	86.2	4,119
	71.5	33.0	77.1	33.2	00.2	7,113
Marital status	=0.0	c c =	00 =		0.0	0.000
Never married	70.8	66.7	80.7	45.0	86.9	2,220
Ever had sex	82.3	64.9	82.6	50.9	90.1	879
Never had sex	63.4	67.9	79.4	41.1	84.7	1,342
Currently married	74.8	53.0	75.6	36.4	83.8	6,358
Formerly married	75.4	54.6	75.1	38.2	84.3	1,362
Residence						
Urban	90.2	67.4	85.9	57.2	92.1	1,508
Rural	71.1	54.3	75.0	35.2	83.2	8,433
Region						
Central	88.6	63.8	82.6	53.5	90.7	1,656
Kampala	96.9	68.3	87.4	62.0	94.6	668
East Central	86.2	57.6	75.9	44.3	88.4	1,555
Eastern	87.4	49.5	74.9	40.2	81.7	857
Northeast	65.0	46.5	71.5	32.4	65.6	829
North Central	67.9	43.4	76.3	28.7	88.1	970
West Nile	58.6	42.9	67.1	22.7	74.2	958
Western	75.6	51.6	71.6	34.6	84.5	1,140
Southwest	40.9	73.1	80.6	26.1	86.2	1,309
Education						,
No education	60.7	45.8	66.5	24.8	71.9	2,255
Primary incomplete	71.6	52.0	74.1	32.9	85.1	4,596
Primary incomplete Primary complete	82.5	64.5	84.5	47.8	91.1	1,115
Secondary+	90.3	73.6	89.8	62.5	94.4	1,113
	50.5	73.0	05.0	02.5	54.4	1,557
Wealth quintile						
Lowest	61.9	49.1	69.8	29.5	74.6	1,610
Second	68.0	51.3	73.7	31.6	81.3	2,038
Middle	70.7	54.1	74.6	32.8	84.7	1,849
Fourth	74.7	56.8	75.9	38.1	85.9	2,000
Highest	89.0	66.4	85.7	55.0	92.8	2,443
Total 15-49	74.0	56.3	76.6	38.6	84.6	9,941
Total 15-59	73.7	55.2	76.0	37.7	84.2	10,826

Table 4.5.2: Men Rejection of common misperceptions regarding HIV/AIDS, Uganda 2004-05 Percentage of men 15-49 who know that: A healthylooking person People cannot get the AIDS People cannot can have AIDS virus through A healthy-People cannot get AIDS by and mosquito looking person get the AIDS sharing food bites and sharing witchcraft or Background can have the virus from Number of with a person food cannot supernatural characteristic AIDS virus mosquito bites who has AIDS transmit AIDS means men Age 15-19 77.9 61.1 79.2 43.2 87.7 2,070 20-24 88.2 59.9 81.9 49.5 90.9 1,262 25-29 0.88 59.3 82.6 50.5 88.9 1,220 30-39 55.5 80.0 87.5 2,116 86.4 46.1 40 - 4984.5 54.7 78.0 44.0 86.5 1,342 15-24 81.8 60.6 80.2 45.6 88.9 3,332 Marital status 80.7 88.6 3,140 81.7 47.2 Never married 62.5 Ever had sex 87.8 61.2 81.1 49.0 90.6 1,701 Never had sex 74.6 64.1 80.1 45.2 86.3 1,439 Currently married 86.0 88.3 4,237 56.0 80.1 46.1 Formerly married 87.1 50.3 77.9 42.1 84.8 633 Residence Urban 94.0 69.5 88.1 61.8 91.1 1,200 Rural 82.7 78.8 87.6 6,809 56.1 43.5 Region 1,451 Central 95.4 59.4 80.5 51.5 91.8 Kampala 96.7 70.2 87.8 62.4 92.2 547 East Central 90.5 57.9 78.3 49.7 92.6 1,146 87 9 54.1 78.2 88.4 770 Fastern 44 1 Northeast 66.0 52.5 74.8 38.0 72.6 610 North Central 91.5 55.6 84.7 48.8 93.2 795 88.2 West Nile 60.0 84.2 49.4 88.1 735 77.0 945 Western 79.1 54.6 73.1 40.1 Southwest 60.2 60.0 82.5 33.8 91.1 1,012 **Education** 38.9 No education 67.5 61.3 25.1 71.3 668 Primary incomplete 81.2 49.0 74.9 35.7 86.8 3,723 Primary complete 85.9 62.0 85.4 49.7 92.0 1,133 Secondary+ 93.2 75.1 90.9 66.1 92.9 2,477 Wealth quintile 1,209 50.2 74.8 Lowest 76.2 36.5 81.4 1,628 Second 80.5 54.7 78.3 42.0 86.2 Middle 81.9 55.2 78.7 42.2 89.2 1.506 Fourth 85.7 57.9 80.4 46.0 90.3 1,669 Highest 93.4 67.9 85.8 58.7 91.2 1,998 Total 15-49 80.2 88.1 8,010 84.4 58.1 46.2 Total 15-59 84.2 57.4 79.7 45.6 87.9 8.830

# 4.7 COMPREHENSIVE KNOWLEDGE ABOUT HIV/AIDS

An indicator of comprehensive knowledge about HIV/AIDS combines several individual indicators previously discussed. It is the percentage of respondents aged 15-49 who say that: 1) people can reduce the chances of getting the AIDS virus by using a condom every time they have sex, 2) people can reduce the chances of getting the AIDS virus by having sex with just one partner who is not infected and who has no other partners, 3) that people cannot get the AIDS virus from mosquito bites, 4) that people cannot get the AIDS virus from sharing food with a person who has AIDS, and 5) that a healthylooking person can have the AIDS virus.

As shown in Table 4.6, slightly more than one-fourth of women and one-third of men have such comprehensive knowledge about HIV/AIDS. Sexually active, never-married respondents are more likely than those in other marital status categories to have comprehensive knowledge of HIV/AIDS. The same is true for women and men who live in urban areas, in Kampala, Central, and East Central regions, and those who are better educated and in the higher wealth quintiles.

	Women	15-49	Men 1	5-49
Background characteristic	Comprehensive knowledge <sup>1</sup>	Number of women	Comprehensive knowledge <sup>1</sup>	Number of men
Age				
15-19	29.0	2,186	32.5	2,070
20-24	30.1	1,933	39.9	1,262
25-29	30.7	1,764	41.6	1,220
30-39	27.0	2,542	35.4	2,116
40-49	24.2	1,516	32.6	1,342
15-24	29.5	4,119	35.3	3,332
Marital status				
Never married	33.7	2,220	36.5	3,140
Ever had sex	42.6	879	40.2	1,701
Never had sex	27.9	1,342	32.0	1,439
Currently married	26.2	6,358	35.7	4,237
Formerly married	29.0	1,362	34.0	633
Residence				
Urban	46.3	1,508	52.1	1,200
Rural	25.0	8,433	33.0	6,809
Region				
Central	45.6	1,656	44.2	1,451
Kampala	52.5	668	55.4	547
East Central	38.7	1,555	43.6	1,146
Eastern	31.6	857	38.1	770
Northeast	13.2	829	28.4	610
North Central	16.1	970	29.0	795
West Nile	11.6	958	37.6	735
Western	20.4	1,140	24.7	945
Southwest	17.1	1,309	21.9	1,012
Education No education	12.4	2.255	16.5	660
	12.4 24.0	2,255	16.5 26.3	668
Primary incomplete		4,596		3,723
Primary complete Secondary+	37.6 51.1	1,115 1,957	39.5 53.7	1,133 2,477
Wealth quintile		,		,
Lowest	17.3	1,610	26.4	1,209
Second	21.3	2,038	31.5	1,628
Middle	23.9	1,849	31.9	1,506
Fourth	28.5	2,000	34.9	1,669
Highest	44.4	2,443	48.8	1,998
Total 15-49	28.3	9,941	35.8	8,010
Total 15-59	27.3	10,826	35.0	8,830

<sup>&</sup>lt;sup>1</sup> Percentage who say that people can reduce the risk of getting the AIDS virus by using a condom every time they have sex and by having sex with just one partner who is not infected and who has no other partners, who say that people cannot get the AIDS virus from mosquito bites or from sharing food with a person who has AIDS, and who say that a healthy-looking person can have the AIDS virus.

#### 4.8 PERCEPTIONS ABOUT DISCORDANCE

Data in Chapter 8 indicate a not inconsiderable level of HIV discordance among cohabiting Ugandan couples, that is, a situation in which one is HIV positive and the other HIV negative. Ignorance about how common discordance is leads couples to neglect taking precautions even in cases in which they know or suspect that one of them is infected, because they feel the situation is hopeless.

In the UHSBS, respondents were asked two questions: "If a man has the virus that causes AIDS, does his sexual partner always have the AIDS virus, almost always, or only sometimes?" and "If a woman has the virus that causes AIDS, does her sexual partner always have the AIDS virus, almost always, or only sometimes?" Results are shown in Table 4.7.

Perceptions about discordance of HIV i Uganda 2004-05	nfection in c	ouples,
	Women	Men
Belief	15-49	15-49
Believes if a man has the virus, his sexual partner has the virus:		
Always	75.8	73.3
Almost always	8.5	9.0
Sometimes	7.4	12.8
Don't know/missing	8.3	4.9
Total	100.0	100.0
Believes if a woman has the virus, her sexual partner has the virus:		
Always	76.4	74.2
Almost always	8.3	8.8
Sometimes	7.5	12.4
Don't know/missing	7.8	4.5
Total	100.0	100.0
Number of respondents	9,941	8,010

The data show that three-quarters of both

women and men believe that coinfection is inevitable—if one partner is infected, the other always is too. Eight to 9 percent believe that the partner is almost always infected. Only 7-8 percent of women and 12-13 percent of men know that if a person is HIV positive, his or her partner is only sometimes infected.

Table 4.7

Interestingly, there are very few differences in the responses of female and male respondents. Moreover, respondents do not see any difference in the likelihood of HIV transmission from men to women and from women to men.

#### 5.1 **KEY FINDINGS**

- Although Ugandan adults generally have accepting attitudes towards those living with HIV/AIDS, a sizeable minority express discriminatory beliefs.
- Women are slightly less likely than men to express accepting attitudes about people with HIV.
- There is widespread acceptance of the ability of a woman to negotiate safer sex with her husband either by refusing to have sex or in requesting condom use if she knows he has a sexually transmitted infection.
- Six in 10 adults believe children aged 12-14 should be taught about condom use to avoid AIDS.
- More than one in five Ugandan adults believes it is very likely he or she will get HIV.

# **5.2 I**NTRODUCTION

This chapter covers issues related to attitudes towards HIV/AIDS. Specifically, it includes indicators of the level of stigma towards people living with HIV/AIDS, as well as findings related to the ability to negotiate safer sex, and attitudes towards teaching youth about condom use.

### HIV/AIDS-RELATED STIGMA **5.3**

Stigma refers to the fact that, in some societies, people living with HIV/AIDS are viewed as shameful and the disease is perceived to be a result of personal irresponsibility. If not counteracted, such attitudes fuel prejudice against those living with HIV/AIDS, marginalising and excluding individuals. Ultimately such attitudes allow societies to excuse themselves from the responsibility of caring for and looking after those who are infected. More importantly, stigma leads to secrecy and denial that hinders people from seeking counselling and testing for HIV, as well as care and support services. In Uganda, efforts have been made to reduce fear and discrimination towards those living with HIV/AIDS.

To assess the level of stigma, UHSBS respondents who had heard of AIDS were asked four questions related to their attitudes towards those infected by HIV/AIDS. They were asked if they would be willing to care for a relative sick with AIDS in their own households and if they would be willing to buy sugar, fresh vegetables, or other food from a market vendor who had the AIDS virus. Another question assessed whether respondents thought that a female teacher who has the AIDS virus but is not sick should be allowed to continue teaching. A more personal question concerned, if a member of their family got infected with the virus that causes AIDS, whether they would they want it to remain secret or not. Tables 5.1.1 and 5.1.2 show the results for women and men, respectively.

Survey results show that almost nine in ten Ugandans aged 15-49 say they would be willing to care for a relative who is sick with AIDS in their own household. Far fewer women (59 percent) and men (72 percent) say they would buy sugar or fresh vegetables from a vendor if they knew that he/she is HIV positive. About 6 in 10 Ugandans feel that a female teacher who has the AIDS virus but is not sick should be allowed to continue teaching in the school, while 45 percent of women and 53 percent of men say that if a member of their family got infected with the AIDS virus, they would not necessarily want it to remain a secret.

Table 5.1.1: women Accepting attitudes towards people who are HIV infected, Uganda 2004-05

	Perce	ntage of women ag	ged 15-49 who say	they:		
Background characteristic	Would be willing to care for a relative sick with HIV in own home	Would buy sugar or fresh vegetables from market vendor with HIV	Believe an HIV- positive female teacher should be allowed to teach	Would not want HIV-positive status of family member to remain secret	Percentage expressing acceptance on all 4 measures <sup>1</sup>	Number of women who have heard of HIV/AIDS
Age						
15-19 20-24	82.2 86.7	57.1 60.5	59.2 61.6	40.0 45.0	15.0 17.6	2,148 1,908
25-29 30-39 40-49	88.5 86.9 88.2	61.8 59.8 58.0	62.8 61.5 60.9	47.0 47.0 49.3	20.9 20.1 20.4	1,740 2,508 1,497
15-24	84.3	58.7	60.4	42.4	16.3	4,056
Marital status	01.5	30.7	00.1	12.1	10.5	1,030
Never married Ever had sex Never had sex Currently married Formerly married	84.6 90.2 80.9 86.2 89.4	62.9 69.7 58.4 57.9 60.7	64.3 72.3 59.0 60.0 61.7	41.0 40.1 41.6 46.9 45.8	18.4 21.6 16.3 18.4 20.8	2,185 874 1,311 6,268 1,348
Residence	03	55.7	0	.5.0	20.0	.,5 .5
Urban Rural	92.7 85.2	76.2 56.4	78.6 58.0	40.3 46.3	24.8 17.6	1,505 8,296
Region Central Kampala East Central Eastern Northeast	87.9 94.0 93.3 80.1 80.0	70.1 78.3 62.2 58.2	69.3 79.5 71.2 57.4	35.7 32.6 32.1 44.5	20.0 20.3 15.3 16.5	1,650 666 1,555 848 <i>7</i> 60
Northeast North Central West Nile Western Southwest	79.7 75.3 95.1 85.1	51.0 53.6 50.5 60.1 48.6	51.2 56.8 54.5 62.2 44.9	58.5 81.2 48.4 48.3 42.1	15.4 28.2 18.5 24.2 12.1	962 938 1,124 1,297
Education No education Primary incomplete Primary complete Secondary+	79.8 85.2 89.4 94.4	48.1 53.7 68.0 80.3	47.5 56.7 70.3 81.5	43.0 47.7 44.1 43.2	11.5 16.7 22.4 29.1	2,160 4,557 1,111 1,955
Wealth quintile Lowest Second Middle Fourth Highest	80.4 82.1 86.0 87.7 92.6	49.8 52.6 56.0 59.2 73.8	49.7 55.0 56.8 61.5 76.5	47.8 47.9 48.6 44.6 40.2	13.4 16.0 18.1 18.8 24.6	1,544 1,990 1,840 1,990 2,437
Total 15-49 Total 15-59	86.3 86.2	59.4 59.0	61.2 60.8	45.4 46.1	18. <i>7</i> 18. <i>7</i>	9,801 10,671

<sup>&</sup>lt;sup>1</sup> Say they would be willing to care for a relative sick with AIDS in their own households and would be willing to buy sugar, fresh vegetables, or other food from a market vendor who had the AIDS virus, they think that a female teacher who has the AIDS virus but is not sick should be allowed to continue teaching, and that if a member of their family got infected with the virus that causes AIDS, they would not necessarily want it to remain secret.

Table 5.1.2: men Accepting attitudes towards people who are HIV infected, Uganda 2004-05

	Perc	entage of men age	ed 15-49 who say t	hey:			
Background characteristic	Would be willing to care for a relative sick with HIV in own home	Would buy sugar or fresh vegetables from market vendor with HIV	Believe an HIV- positive female teacher should be allowed to teach	Would not want HIV-positive status of family member to remain secret	Percentage expressing acceptance on all 4 measures <sup>1</sup>	Number of men who have heard of HIV/AIDS	
Age							
15-19	83.5	67.3	59.2	46.0	21.4	2,037	
20-24	87.7	74.6	69.1	50.8	26.9	1,253	
25-29	90.0	74.5	68.0	54.6	30.6	1,213	
30-39	88.5	73.6	66.9	56.5	31.6	2,104	
40-49	87.8	70.5	64.9	61.0	32.0	1,332	
15-24	85.1	70.1	63.0	47.8	23.5	3,290	
Marital status						,	
Never married	85.4	71.5	64.2	47.5	24.6	3,094	
Ever had sex	87.7	74.2	66.5	48.3	26.7	1,689	
Never had sex	82.7	68.3	61.4	46.5	21.9	1,405	
Currently married	88.6	71.8	65.5	57.3	30.5	4,213	
Formerly married	86.1	72.9	66.9	55.7	30.6	633	
Residence							
Urban	92.3	82.5	76.6	53.9	35.5	1,199	
Rural	86.3	69.9	63.0	53.3	26.9	6,740	
Region							
Central	92.1	76.9	68.5	42.3	24.1	1,451	
Kampala	93.0	86.3	78.6	53.2	35.6	546	
East Central	92.2	73.6	67.3	32.2	18.6	1,146	
Eastern	74.0	67.9	59.0	53.9	26.5	770	
Northeast	67.5	61.8	53.8	76.5	31.4	568	
North Central	91.8	65.2	72.3	83.1	43.7	792	
West Nile	92.5	76.2	72.5	61.3	35.2	728	
Western	90.6	71.6	62.1	51.6	29.0	932	
Southwest	81.8	65.0	53.1	52.5	22.3	1,007	
Education							
No education	71.8	52.7	44.4	50.9	13.5	628	
Primary incomplete	84.2	64.9	57.7	51.5	22.1	3,694	
Primary complete	91.4	77.6	69.7	58.9	34.6	1,131	
Secondary+	93.7	84.1	79.2	54.3	38.0	2,476	
Wealth quintile							
Lowest	79.8	62.3	57.9	55.0	22.7	1,175	
Second	85.2	66.9	59.8	58.5	27.7	1,605	
Middle	86.3	69.2	60.2	55.9	27.6	1,502	
Fourth	88.3	73.5	66.0	47.9	26.2	1,664	
Highest	92.8	81.7	76.5	50.9	33.9	1,994	
Total 15-49	87.2	71.8	65.1	53.4	28.2	7,939	
Total 15-59	86.9	71.0	64.8	54.0	28.0	8,755	

<sup>1</sup> Say they would be willing to care for a relative sick with AIDS in their own households and would be willing to buy sugar, fresh vegetables, or other food from a market vendor who had the AIDS virus, they think that a female teacher who has the AIDS virus but is not sick should be allowed to continue teaching, and that if a member of their family got infected with the virus that causes AIDS, they would not necessarily want it to remain secret.

A composite indicator combines all four of these attitudes. As shown in the last column in Tables 5.1.1 and 5.1.2, only 19 percent of women and 28 percent of men express positive attitudes on all four indicators. It is also interesting to note that for all four indicators, women are less likely than men to express accepting attitudes towards people with HIV/AIDS.

The composite measure of accepting attitudes shows some differences across background characteristics. For example, urban women and men are somewhat more likely than rural respondents to express accepting attitudes on all four issues examined. Education is positively related to accepting attitudes. However, the wealth quintile is not. It is only among those in the highest wealth quintile that the proportion reporting accepting attitudes increases. It is also interesting that, although one might consider the capital city to encourage the most open attitudes, other regions appear to be more accepting of those with HIV/AIDS. For example, women in North Central and Western regions and men in North Central are most likely to have accepting attitudes on all four issues.

#### 5.4 ATTITUDES TOWARDS NEGOTIATING SAFER SEX

Knowledge about HIV transmission and ways to prevent it are less useful if people feel powerless to negotiate safer sex with their partners. To gauge attitudes towards safer sex, respondents in the UHSBS were asked if they think a wife is justified in refusing to have sex with her husband if she knows he has a disease that can be transmitted through sexual contact. They were also asked if they think that a woman in the same circumstances is justified in asking her husband to use a condom.

As shown in Table 5.2 and Figure 5.1, 72 percent of Ugandan women and 82 percent of men feel that a wife is justified in refusing to have sex with her husband if she knows he has a sexually transmitted disease, while 71 percent of women and 83 percent of men believe that a wife is justified in asking that they use a condom if she knows that her husband has a sexually transmitted infection. Nearly 90 percent of women and men agree with at least one statement, indicating widespread acceptance of the ability of women to negotiate safer sex with their husbands. Women are somewhat less likely than men to feel that a wife is justified in negotiating safer sex.

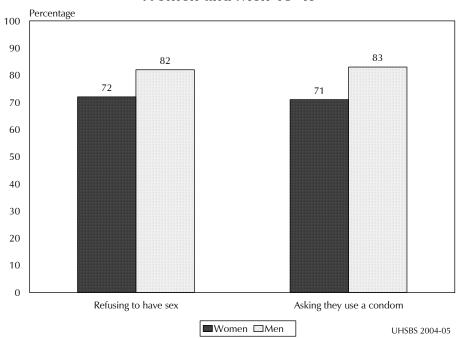


Figure 5.1 Attitudes Towards Negotiating Safer Sex among Women and Men 15-49

Table 5.2 Attitudes towards negotiating safer sex, Uganda 2004-05

Percentage of respondents aged 15-49 who say that when a wife knows her husband has a sexually transmitted infection, she is justified in:

			trair	simucu iiiicciic	on, she is justit	icu III.		
	Women				Men			
		Asking that	Refusing sex or asking to			Asking that	Refusing sex or asking to	
Background	Refusing to	they use a	use a	Number of	Refusing to	they use a	use a	Number of
characteristic	have sex	condom	condom	women	have sex	condom	condom	men
Age								
15-19	70.8	71.2	83.6	2,186	82.2	83.5	90.2	2,070
20-24	73.5	74.5	86.7	1,933	83.1	85.5	92.3	1,262
25-29	72.7	72.8	86.2	1,764	82.5	85.2	91.5	1,202
30-39	72.0	69.1	83.7	2,542	82.0	83.1	90.9	2,116
40-49	71.3	64.1	83.0	1,516	82.5	79.9	88.9	1,342
40-49	71.5	04.1	03.0	1,510	02.5	7 9.9	00.9	1,342
Marital status								
Never married	72.4	71.8	83.8	2,220	83.0	83.8	90.9	3,140
Ever had sex	78.3	81.3	91.4	879	85.7	87.7	93.1	1,701
Never had sex	68.5	65.5	78.8	1,342	79.7	79.2	88.2	1,439
Currently married	71.3	70.0	84.7	6,358	81.9	83.5	90.6	4,237
Formerly married	75.0	70.5	85.5	1,362	82.5	80.3	90.4	633
Residence								
Urban	83.6	85.0	94.7	1,508	85.7	86.1	94.6	1,200
Rural	70.0	67.9	82.8	8,433	81.8	82.9	90.0	6,809
Education								
No education	63.8	57.6	<i>7</i> 5.1	2,255	65.7	66.0	72.4	668
Primary incomplete	70.7	69.9	84.8	4,596	80.4	82.3	90.0	3,723
Primary complete	78.3	78.7	89.7	1,115	85.1	86.0	92.8	1,133
Secondary+	81.6	82.4	92.6	1,957	88.5	88.5	95.7	2,477
Wealth quintile								
Lowest	64.5	58.2	76.0	1,610	75.3	76.5	84.1	1,209
Second	68.0	65.6	81.3	2,038	80.5	79.1	88.1	1,628
Middle	71.0	68.3	84.2	1,849	83.5	84.4	92.0	1,506
Fourth	72.2	72.8	85.3	2,000	83.7	86.4	91.7	1,669
Highest	81.2	82.5	92.7	2,443	86.2	87.7	94.9	1,998
Total 15-49	72.1	70.5	84.6	9,941	82.4	83.4	90.7	8,010
Total 15-59	71.3	69.2	83.8	10,826	82.3	82.7	90.4	8,830

#### 5.5 ATTITUDES TOWARDS EDUCATING YOUTH ABOUT CONDOM USE

Condom use is one of the main strategies for combating the spread of AIDS. However, educating young people about using condoms is sometimes controversial, with some saying it promotes early sexual experimentation. To gauge attitudes towards condom education, UHSBS respondents were asked if they thought that children aged 12-14 should be taught about using a condom to avoid AIDS. Results are tabulated for respondents aged 18-49 in Table 5.3.

The data show that roughly 6 in 10 adults agree that children aged 12-14 should be taught about using a condom to avoid AIDS. A higher proportion of men than women believe that children should be taught about condom use. Differences by background characteristics are not large. Those in their 40s are less likely to support condom education for youth, as are those with no education, and those in the lowest wealth quintiles.

#### 5.6 PERCEIVED RISK OF GETTING HIV

To assess people's perceptions of their risk of getting HIV, respondents were asked whether the chance they might get the virus that causes AIDS was very likely, somewhat likely, not likely, or no chance at all. Tables 5.4.1 and 5.4.2 show the results for women and men, respectively.

More than 1 in 5 Ugandan adults—21 percent of women and 23 percent of men—perceive themselves at high risk of getting infected with the virus that causes AIDS, while slightly more than one-third perceive their risk as moderate. About one-fifth of respondents think they are not likely to get HIV, while 12 percent of women and men say they have no risk of getting AIDS. More than one in ten respondents said they were not sure of their chances of getting HIV. Women and men perceive roughly equal risks of getting infected with HIV.

Table 5.3 Support of education for youth about condom use to prevent AIDS, Uganda 2004-05

Percentage of those aged 18-49 who

agree that children aged 12-14

	should be taught about using						
	a condom to avoid AIDS						
			Number				
Background		of		of			
characteristic	Women	women	Men	men			
Age							
18-19	61.3	821	65.5	770			
20-24	62.3	1,933	70.1	1,262			
25-29	59.6	1,764	66.1	1,220			
30-39	54.4	2,542	62.4	2,116			
40-49	49.9	1,516	55.1	1,342			
Marital status							
Never married	57.5	976	65.6	1,853			
Ever married	57.1	7,600	62.6	4,856			
		. ,		.,			
Residence	(1.4	1 277	C	1 020			
Urban Rural	61.4 56.4	1,277 7,299	65.5 63.0	1,028 5,682			
	30.4	7,299	65.0	3,002			
Region							
Central	65.2	1,375	70.6	1,220			
Kampala	57.0	573	67.9	470			
East Central	67.8	1,322	68.9	937			
Eastern	63.7	738	71.3	643			
Northeast	43.9	750	49.9	530			
North Central	71.2	879	49.0	708			
West Nile	41.7	817	57.2	607			
Western	58.6	1,000	65.0	795			
Southwest	38.1	1,123	62.0	800			
Education							
No education	43.8	2,195	49.8	634			
Primary incomplete	61.7	3,852	65.7	2,943			
Primary complete	61.9	942	63.5	984			
Secondary+	61.6	1,568	64.2	2,143			
Wealth quintile							
Lowest	46.6	1,394	58.1	1,023			

1,753

1,642

1,720

2,067

8,576

9,462

59.1

64.0

66.8

67.0

63.4

62.3

1,373

1,248

1,402

1,663

6,710

7,530

52.9

58.9

61.7

62.5

57.1

55.9

Younger and older respondents are less likely to believe they are at high risk of getting the AIDS virus than respondents in their twenties and thirties. Similarly, those who have never married are less likely to think they are at high risk of getting the AIDS virus. Urban respondents, especially women, are more likely than rural respondents to say they are very likely to get HIV.

Second

Middle

Fourth

Highest

Total 18-49

Total 18-59

Table 5.4.1: women Perceived chance of getting the HIV virus, Uganda 2004-05

	Among women aged 15-49, perceived chances of getting the AIDS virus (percent distribution)							
Background characteristic	Very likely (high risk)	Somewhat likely (moderate risk)	Not likely (low risk)	No chance at all	Already has HIV or AIDS	Not sure/ depends/ missing	Total	Number of women
Age								
15-19	14.4	25.2	24.0	26.0	0.0	10.4	100.0	2,186
20-24	22.0	39.8	18.2	7.5	0.1	12.4	100.0	1,933
25-29	23.8	43.1	14.8	5.2	0.5	12.6	100.0	1,764
30-34	25.0	38.0	15.4	6.0	0.5	15.1	100.0	1,457
35-39	23.7	37.9	15.1	7.8	1.1	14.5	100.0	1,085
40-44	21.3	32.7	18.9	9.3	1.1	16.7	100.0	870
45-49	19.3	31.0	18.5	15.3	1.1	14.9	100.0	647
Marital status								
Never married	16.2	24.4	23.5	27.3	0.0	8.7	100.0	2,220
Married	22.0	39.8	16.6	6.7	0.3	14.5	100.0	6,358
Widowed	23.8	28.6	16.6	10.0	4.4	16.6	100.0	581
Divorced	24.2	37.3	17.0	8.7	0.6	12.3	100.0	781
	24.2	37.3	17.0	0.7	0.0	12.5	100.0	701
<b>Residence</b> Urban	29.2	25.7	111	12.2	1 1	7.4	100.0	1 500
		35.7	14.4	12.2	1.1	7.4	100.0	1,508
Rural	19.6	35.5	18.9	11.6	0.4	14.2	100.0	8,433
Region								
Central	26.1	41.1	14.2	14.3	0.4	3.8	100.0	1,656
Kampala	36.0	32.8	14.7	12.6	1.0	2.7	100.0	668
East Central	32.3	40.5	17.5	7.3	0.5	1.9	100.0	1,555
Eastern	12.0	29.6	20.1	9.2	0.3	28.8	100.0	857
Northeast	14.4	20.0	28.6	2.3	0.2	34.6	100.0	829
North Central	9.7	51.3	5.1	9.9	0.9	23.1	100.0	970
West Nile	8.8	27.8	17.7	19.0	0.5	26.2	100.0	958
Western	16.3	27.3	24.7	18.5	0.3	12.9	100.0	1,140
Southwest	25.0	38.7	22.4	10.5	0.3	3.2	100.0	1,309
Education								
No education	19.1	32.5	18.0	10.1	0.7	19.5	100.0	2,255
Primary incomplete	18.8	35.3	19.0	12.1	0.4	14.4	100.0	4,596
Primary complete	28.1	36.3	14.8	11.3	0.9	8.8	100.0	1,115
Secondary+	24.5	38.8	18.3	12.7	0.2	5.5	100.0	1,957
Wealth quintile								
Lowest	16.2	28.7	20.4	12.4	0.3	22.0	100.0	1,610
Second	17.2	34.0	19.0	12.6	0.5	16.6	100.0	2,038
Middle	18.2	39.1	18.5	11.4	0.2	12.5	100.0	1,849
Fourth	21.9	37.8	17.6	11.0	0.5	11.2	100.0	2,000
Highest	28.7	36.6	16.3	11.1	0.7	6.5	100.0	2,443
Total 15-49	21.0	35.5	18.2	11.7	0.5	13.2	100.0	9,941
Total 15-59	20.3	34.6	18.6	12.7	0.5	13.3	100.0	10,826

The distribution of respondents' perceptions of the risk of getting AIDS by region shows that the largest proportions of those who think they are at high risk are in Kampala, East Central, and Central regions, and among men in Southwest. However, in some regions, large proportions of respondents say they are unable to assess their risk of getting infected. The proportion of respondents who think they are at high risk of becoming infected with the AIDS virus increases with education and wealth quintile.

Table 5.4.2: men

# Perceived chance of getting the HIV virus, Uganda 2004-05

Among men aged 15-49, perceived chances of getting the AIDS virus (percent distribution) Somewhat likely Not sure/ Background Very likely (moderate Not likely No chance Already has depends/ Number of characteristic (high risk) risk) (low risk) at all HIV or AIDS missing Total men Age 15-19 19.7 28.0 20.6 22.0 0.0 9.6 100.0 2,070 20-24 23.8 37.4 17.3 10.3 0.0 11.2 100.0 1,262 38.6 100.0 25-29 25.6 14.6 8.0 0.1 13.1 1,220 38.5 1,200 30-34 26.2 15.0 6.6 0.2 13.5 100.0 35-39 26.4 36.6 14.8 7.9 0.5 14.0 100.0 916 40-44 35.7 9.8 0.8 100.0 788 22.9 15.3 15.6 45-49 31.7 100.0 554 20.9 18.5 12.9 1.0 15.1 Marital status 31.3 18.9 18.6 0.0 9.7 100.0 Never married 21.5 3,140 Married 36.8 14.7 100.0 23.9 15.9 8.4 0.3 4,237 Widowed 30.1 35.5 11.9 3.6 6.9 12.0 100.0 100 Divorced 28.9 37.4 15.2 7.9 0.0 10.6 100.0 532 Residence 0.3 100.0 Urban 26.9 42.3 15.6 8.2 6.5 1,200 100.0 Rural 22.8 33.3 17.2 13.0 0.2 13.5 6,809 Region 47.0 8.9 1.0 100.0 Central 31.9 11.0 0.1 1,451 Kampala 27.0 47.7 16.5 7.3 0.0 1.5 100.0 547 East Central 41.1 32.0 13.9 9.3 0.4 3.2 100.0 1,146 36.6 22.5 12.1 16.6 770 Eastern 11.6 0.6 100.0 Northeast 32.8 28.1 12.2 0.0 24.2 100.0 610 2.6 North Central 10.2 24.2 12.0 11.2 0.1 42.2 100.0 795 West Nile 2.0 29.7 23.5 15.7 0.3 28.8 100.0 735 Western 12.3 24.5 26.1 25.8 0.6 10.7 100.0 945 Southwest 100.0 1,012 46.7 33.9 9.0 9.0 0.1 1.2 Education 0.2 20.6 100.0 23.1 23.6 20.2 12.2 668 No education 34.0 100.0 Primary incomplete 22.0 17.2 13.9 0.3 12.7 3,723 Primary complete 23.0 34.8 15.3 0.1 15.3 100.0 1,133 11.4 Secondary+ 25.9 38.6 16.5 10.3 0.3 8.5 100.0 2,477 Wealth quintile 28.9 0.2 21.1 100.0 Lowest 15.7 19.9 14.1 1,209 20.0 28.9 0.1 17.7 100.0 Second 18.9 14.3 1,628 Middle 23.2 32.5 17.1 13.7 0.3 13.2 100.0 1,506 Fourth 24.4 38.5 0.3 8.9 100.0 1,669 16.7 11.2 1,998 Highest 30.1 41.2 13.8 9.3 0.3 5.3 100.0 Total 15-49 23.4 34.7 17.0 12.3 0.3 12.4 100.0 8,010 Total 15-59 23.1 34.3 17.1 12.6 0.3 12.6 100.0 8,830

# 6.1 **KEY FINDINGS**

- Since 2000-01, the proportion of women aged 15-19 who have never had sex has increased from 48 to 54 percent, and the proportion of men aged 15-19 who never had sex decreased from 61 to 58 percent.
- There has been an increase in multiple partnering. The proportion of sexually active respondents who reported having had two or more sexual partners in the previous 12 months increased from 2 to 4 percent between 2000-01 and 2004-05 for women and from 25 to 29 percent for men.
- Fifteen percent of women and 37 percent of men aged 15-49 who were sexually active in the 12 months preceding the survey engaged in sex with a nonmarital, noncohabiting partner.
- Thirteen percent of women and 11 percent of men aged 15-49 have ever been tested for HIV and received their results.

# 6.2 **I**NTRODUCTION

This chapter presents data on sexual behaviours related to the spread of HIV/AIDS and other sexually transmitted infections (STIs). These indicators of sexual behaviours include age at first sex and number of sexual partners. Behaviours such as sex with nonmarital, noncohabitating partners, and paying or receiving money to have sex are considered high-risk sexual behaviours. This chapter also includes respondent reports of symptoms of STIs, seeking treatment for STIs, and the extent of voluntary counselling and testing (VCT) for HIV.

# **AGE AT FIRST SEXUAL INTERCOURSE** 6.3

Sexual intercourse is the most common mode of HIV transmission in Uganda. Looking at age at first sex is one way to understand when individuals are first exposed to the risk of infection with the virus. Table 6.1 shows median age at first sex and the percentage of respondents who had sex by specific ages.

One in five women aged 20-49 had sex by age 15, while two-thirds had sex before age 18. The percentage of women who had sex by age 15 has decreased from 22 percent among women now aged 45-49 to 12 percent of women aged 15-19. The median age at first sex is 17.1 years for women in the 20-24 age group compared with 16.6 to 16.7 years for older women, implying a recent increase in age at first sex.

Among men in the 20-44 age groups, the percentage who had sex by age 15 ranges from 11 to 12 percent. However, among men aged 15-19, 16 percent had sex by age 15. Although there is now a larger group of young men initiating sex at a very early age than women, a lower proportion of men 20-24 initiate sex by ages 18 and 20 than women. Thus, the data show that in general men still start sexual activity later than women.

Comparing the 2004-05 UHSBS data with that from previous surveys shows a steady increase over time in the proportion of women aged 15-19 who have never had sex, from 38 percent in 1995 to 48 percent in 2000-01 and to 54 percent in 2004-05. The proportion of men aged 15-19 who have never had sex varies from 52 percent in 1995 to 61 percent in 2000-01 and to 58 percent in 2004-05. The median age at first sex among those aged 20-24 has increased slightly among women since 2000-01, from 16.7 to 17.1 years, while it has declined slightly among men, from 18.8 to 18.3 years.

Table 6.1 Age at first sexual intercourse, Uganda 2004-05 Percentage Percentage who had first sexual intercourse Median age who never by exact age: Current Number of at first had 15 18 22 25 intercourse individuals intercourse age **WOMEN** 15-19 12.2 na na na na 54.4 2,186 a 20-24 17.0 1,933 17.1 63.6 87.1 na na 6.5 25-29 18.7 67.5 87.4 95.2 98.0 1,764 1.1 16.7 30-34 21.1 68.6 89.3 95.1 98.4 0.3 1,457 16.6 35-39 22.6 66.0 87.2 94.4 98.4 0.1 1,085 16.6 87.0 95.1 97.3 40-44 20.6 65.3 0.0 870 16.7 45-49 22.0 87.0 97.3 16.6 66.6 93.6 0.2 647 20-49 19.8 66.2 87.6 2.0 7,755 16.8 na na MEN 15-19 57.8 2,070 16.3 na na na na а 20-24 10.8 45.0 71.6 na 14.9 1,262 18.3 na 25-29 11.5 44.9 69.8 84.7 94.5 2.8 1,220 18.3 30-34 11.9 45.6 70.7 85.3 93.9 0.7 1.200 18.3 35-39 10.6 42.0 67.6 83.5 90.9 0.3 916 18.5 40-44 11.5 41.7 67.4 85.2 92.1 0.6 788 18.5 45-49 9.4 40.1 68.5 86.3 93.1 0.7 554 18.5 20-49 11.1 43.8 69.6 4.1 5,940 18.4 na na

#### 6.4 RECENT SEXUAL ACTIVITY

Table 6.2 presents the percent distribution of women and men by timing of last sex, according to their background characteristics. Fourteen percent of women aged 15-49 and 18 percent of men aged 15-49 have never had sex. Among women, 22 percent had sex in the past year and 12 percent had their last sexual encounter one or more years ago. Among men, 18 percent had sex in the past year while 12 percent last had sex more than one year ago. Slightly more than half of men and women reported sexual activity in the four weeks preceding the survey.

Among women, the level of recent sexual activity increases to its highest level in the 25-29 age group and then declines. In the younger age groups, recent sexual activity among men is lower than that of women. Men and women in the 25-29 age group have similar levels of recent sexual activity (69 percent). Recent sexual activity then continues to increase to 80 percent among men in the 30-34 age group before starting a gradual decline. Women and men who are currently married are most likely to have recent sexual activity. Three in four currently married women and 85 percent of currently married men had sex in the four weeks preceding the survey. Among respondents who have never married, recent sexual activity is more prevalent among men (11 percent) than among women (8 percent).

Rural women and men are more likely to have had sex in the four weeks preceding the survey than urban respondents. Women and men with more education are less likely than those with less education to have had sex in the past four weeks, which may be related to the fact that better-educated respondents tend to be younger and not yet married.

<sup>&</sup>lt;sup>a</sup> Omitted because less than 50 percent of respondents had had sex before the start of the age group na = Not applicable

Table 6.2 Recent sexual activity, Uganda 2004-05

			Women 15-	49		Men 15-49					
	Pero		tion by timi intercourse <sup>1</sup>			Perc	ent distribu last sexual i				
Background characteristic	In the past 4 weeks	Within 1 year	One or more years	Never had sexual intercourse	Number of women	In the past 4 weeks	Within 1 year	One or more years	Never had sexual intercourse	Numbe of men	
Age		,	,				,	1			
15-19	19.7	17.6	8.1	54.4	2,186	9.1	16.4	16.4	57.8	2,070	
20-24	59.4	25.4	8.5	6.5	1,933	39.6	26.9	18.3	14.9	1,262	
25-29	69.4	21.7	7.7	1.1	1,764	68.6	20.6	7.8	2.8	1,220	
30-34	64.2	24.1	11.4	0.3	1,457	80.2	13.3	5.4	0.7	1,200	
35-39	62.5	22.6	14.7	0.1	1,085	76.3	17.3	6.0	0.3	916	
40-44	59.2	18.4	22.0	0.0	870	75.8	14.5	9.0	0.6	788	
45-49	47.2	19.2	33.4	0.2	647	72.2	14.6	12.1	0.7	554	
15-24	38.4	21.3	8.3	31.9	4,119	20.6	20.4	17.1	41.6	3,332	
Marital status											
Never married	7.6	18.8	13.1	60.4	2,220	11.4	21.3	21.3	45.8	3,140	
Currently married	76.4	19.8	3.6	0.0	6,358	85.4	12.9	1.4	0.0	4,237	
Formerly married	15.3	33.9	50.6	0.0	1,362	32.4	36.4	31.0	0.0	633	
Residence											
Urban	44.5	23.4	16.5	15.5	1,508	44.2	22.9	15.4	17.0	1,200	
Rural	54.2	21.2	11.4	13.1	8,433	53.6	17.2	10.9	18.1	6,809	
Region											
Central	52.8	21.8	11.8	13.2	1,656	47.6	20.0	14.4	17.9	1,451	
Kampala	43.2	23.7	17.5	15.4	668	40.8	25.4	13.9	19.7	547	
East Central	53.0	22.9	12.5	11.6	1,555	55.1	17.1	11.1	16.7	1,146	
Eastern	59.5	21.2	8.2	10.6	857	55.4	22.4	9.9	11.8	770	
Northeast	50.4	26.1	11.5	11.9	829	54.7	19.1	9.5	15.5	610	
North Central	55.3	24.8	12.3	7.6	970	60.3	19.4	9.5	10.3	795	
West Nile	41.5	24.2	17.0	17.3	958	45.6	19.9	12.2	22.3	735	
Western	61.4	17.1	7.8	13.5	1,140	56.0	15.1	10.1	18.6	945	
Southwest	52.7	14.9	12.7	19.6	1,309	52.7	8.8	11.6	26.9	1,012	
Education											
No education	60.4	21.7	14.5	3.4	2,255	68.1	14.5	8.7	8.4	668	
Primary incomp.	54.1	21.5	10.1	14.2	4,596	52.8	17.2	10.3	19.5	3,723	
Primary compl.	51.4	20.9	13.8	13.8	1,115	58.2	18.1	10.1	13.5	1,133	
Secondary+	41.2	21.6	13.5	23.5	1,957	44.4	20.2	14.8	20.2	2,477	
Total 15-49	52.7	21.5	12.2	13.5	9,941	52.2	18.0	11.5	18.0	8,010	
Total 15-59	50.9	20.6	15.9	12.4	10,826	53.9	17.8	11.8	16.3	8,830	

<sup>&</sup>lt;sup>1</sup> Percentages may not add to 100 due to a small number with missing information.

#### 6.5 **MULTIPLE SEXUAL PARTNERS**

Women and men interviewed in the 2004-05 UHSBS were asked questions about the number of partners with whom they had had sex in the 12 months preceding the survey, the type of relationship they had with these partners, and the number of sexual partners in their whole life.

More than seven in ten respondents reported that they had had sex in the 12 months preceding the survey. Among respondents who were sexually active in the 12 months preceding the survey, only 4 percent of women reported having had more than one sexual partner, compared with 29 percent of men (Tables 6.3.1 and 6.3.2). Sexually active young women aged 15-19 are more likely to report having multiple partners in the previous year (8 percent) than women in other age groups, while there is little difference in multiple partnerships by age group among men. Women who have had sex in the past 12 months and who are formerly married or never married are more likely to have had multiple partners in the past year than those who are currently married. Among men, those who have never married are least likely to have had multiple partners in the past year, while the formerly married are most likely.

Sexually active women and men in urban areas are slightly more likely to have had more than one partner in the past 12 months than those in rural areas. The results for education show that women and men who have secondary education or higher are more likely to have multiple partners than those with lower levels of education. Among sexually active men, the likelihood of having multiple partners in the past 12 months increases with each wealth quintile. Among sexually active women, those in the highest wealth quintile are most likely to have had sex with more than one person in the past 12 months, but there is no clear pattern among women in the lower wealth quintiles.

<u> </u>		. 0		n who had sex 12 months	Among wome	en who ever	
	Among all wor	men 15-49	<u> </u>		had sex		
Background characteristic	Percentage who had sex in the past 12 months	Number of women	Percentage who had 2+ partners in the past 12 months	Number of women who had sex in the past 12 months	Mean number of lifetime sexual partners	Number of women who ever had sex	
Age							
15-19	37.3	2,186	7.6	816	1.7	996	
20-24	84.8	1,933	3.8	1,639	1.9	1,807	
25-29	91.2	1,764	3.2	1,609	2.2	1,745	
30-39	86.9	2,542	3.1	2,208	2.4	2,536	
40-49	72.8	1,516	3.3	1,105	2.7	1,515	
15-24	59.6	4,119	5.1	2,455	1.8	2,803	
Marital status							
Never married	26.4	2,220	7.5	586	1.8	879	
Currently married	96.2	6,358	2.6	6,119	2.2	6,358	
Formerly married	49.3	1,362	11.3	671	2.9	1,362	
Residence							
Urban	67.9	1,508	5.8	1,024	2.7	1,274	
Rural	75.3	8,433	3.5	6,353	2.2	7,325	
Region							
Central	74.6	1,656	6.7	1,235	2.7	1,437	
Kampala	67.0	668	7.3	448	2.7	566	
East Central	75.9	1,555	5.8	1,181	2.7	1,374	
Eastern	80.7	<sup>'</sup> 857	4.7	691	2.9	766	
Northeast	76.5	829	1.8	634	1.8	730	
North Central	80.1	970	1.5	777	1.9	896	
West Nile	65.7	958	1.6	630	1.7	793	
Western	78.7	1,140	1.8	897	2.2	986	
Southwest	67.6	1,309	1.8	884	1.5	1,052	
Education							
No education	82.1	2,255	2.5	1,851	1.9	2,180	
Primary incomplete	75.6	4,596	4.2	3,474	2.4	3,944	
Primary complete	72.4	1,115	3.2	807	2.4	961	
Secondary+	62.8	1,957	5.1	1,229	2.4	1,496	
Wealth quintile							
Lowest	73.3	1,610	3.5	1,180	2.0	1,389	
Second	73.4	2,038	3.4	1,496	2.1	1,742	
Middle	78.1	1,849	3.0	1,445	2.2	1,650	
Fourth	75.5	2,000	3.7	1,511	2.3	1,732	
Highest	71.4	2,443	5.1	1,744	2.6	2,086	
Total 15-49	74.2	9,941	3.8	7,376	2.2	8,599	
				,			
Total 15-59	71.6	10,826	3.7	7,748	2.3	9,483	

As for the mean number of lifetime sexual partners, women reported a mean of 2.2, compared with 6.7 for men. As might be expected, the mean number of partners increases with age. Mean number of lifetime sexual partners is also higher in urban areas. Women with no education have a lower number of partners than all other education levels, but there is no pattern in number of lifetime partners among men by education.

There appears to be a slight trend towards an increase in multiple partnering over the past four years. The proportion of women who had sex in the 12 months preceding the survey and who reported having more than one partner in that time period increased from 2 percent in 2000-01 to 4 percent in 2004-05. The proportion of sexually active men reporting multiple partners rose from 25 to 29 percent.

				who had sex in 12 months	Among men who ever had sex		
	Among all m	en 15-49	Danasatasa	Niverbau of more			
Background characteristic	Percentage who had sex in the past 12 months	Number of men	Percentage who had 2+ partners in the past 12 months	Number of men who had sex in the past 12 months	Mean number of lifetime sexual partners	Number of men who ever had sex	
Age							
15-19	25.5	2,070	21.3	528	2.8	873	
20-24	66.5	1,262	32.6	840	4.6	1,073	
25-29	89.3	1,220	29.2	1,089	5.5	1,186	
30-39	93.5	2,116	31.6	1,980	7.5	2,105	
40-49	88.8	1,342	26.9	1,192	10.6	1,333	
15-24	41.1	3,332	28.3	1,368	3.8	1,947	
Marital status							
Never married	32.6	3,140	25.8	1,025	3.8	1,701	
Currently married	98.4	4,237	29.8	4,168	7.4	4,237	
Formerly married	68.8	633	32.5	435	9.3	633	
Residence							
Urban	67.1	1,200	34.4	806	7.3	996	
Rural	70.8	6,809	28.5	4,822	6.6	5,575	
Region							
Central	67.6	1,451	38.0	980	7.8	1,191	
Kampala	66.2	547	34.6	362	7.1	439	
East Central	72.2	1,146	39.4	827	7.9	954	
Eastern	77.8	770	36.5	599	7.8	679	
Northeast	73.8	610	13.8	450	4.0	515	
North Central	79.6	795	24.3	633	6.0	713	
West Nile	65.5	735	27.7	482	5.2	571 	
Western	71.2	945	21.7	673	6.8	769	
Southwest	61.5	1,012	18.0	622	5.5	740	
Education							
No education	82.5	668	23.2	551	6.4	612	
Primary incomplete	70.0	3,723	29.7	2,605	7.0	2,995	
Primary complete	76.3	1,133	27.6 31.8	864	6.6 6.3	980	
Secondary+	64.6	2,477	31.0	1,601	0.3	1,976	
Wealth quintile	74.0	1 200	22.4	0.67	F -	000	
Lowest	71.8	1,209	23.1	867	5.5	990	
Second	69.1	1,628	25.0	1,126	6.0	1,317	
Middle	73.1	1,506	28.4	1,101	7.3 7.1	1,261	
Fourth Highest	71.7 66.9	1,669 1,998	31.5 35.7	1,196 1,338	7.1 7.1	1,387 1,617	
Total 15-49	70.3	8,010	29.3	5,628	6.7	6,571	
Total 15-59	71.7	8,830	28.5	6,330	7.2	7,390	

### 6.6 CONDOM USE AT LAST SEX AND **REASONS FOR NON-USE**

Respondents who had sex in the past 12 months were asked whether they used a condom at last sex. Table 6.4 shows that men (16 percent) were more likely to have used a condom than women (9 percent). Respondents aged 15-19 were by far the most likely age group to have used a condom at last sex (27 percent of women and 47 percent of men).

As might be expected, nevermarried respondents were most likely to have used a condom at last sex (53 percent among women and 55 percent among men), while currently married respondents were least likely (4 and 5 percent, respectively). Respondents in urban areas were roughly three times more likely than those in rural areas to have used a condom at last sex. Kampala, Central, and East Central regions have much higher rates of condom use at last sex than other regions.

Condom use at last sex also varies by education status and wealth. The greatest differences are seen between the highest category and all other categories. Onefourth of respondents with secondary education or higher used a condom at last sex, compared with only 3 to 6 percent of those with no education. Similarly, the proportion of those in the highest wealth quintile who used a condom at last sex is at least double the proportion in the next highest quintile.

Table 6.4 Condom use at last sex, Uganda 2004-05

Among those who had sex in the 12 months preceding the survey, percentage who used a condom at most recent sex

	Womer	15-49	Men 1	15-49
Background		Number of		Number of
characteristic	Percentage	women	Percentage	men
Age				
15-19	26.7	816	46.5	528
20-24	9.2	1,639	32.8	840
25-29	8.3	1,609	17.3	1,089
30-34	5.7	1,285	7.0	1,122
35-39	5.7	923	6.5	858
40-44 45-49	3.5 4.4	675 430	4.9 5.3	711 480
	4.4	430	3.3	400
Marital status	50.7	506	== 0	4.005
Never married	52.7	586	55.2	1,025
Currently married Widowed	3.5 25.1	6,119 222	4.8 24.1	4,168 55
Divorced/separated	20.1	449	32.2	380
•	20.1	773	32.2	300
Residence	21.0	1.024	24.2	906
Urban Rural	21.9 7.0	1,024 6,353	34.2 13.0	806 4,822
	7.0	0,333	13.0	4,022
Region	42.4	4.005	25.0	000
Central	13.4	1,235 448	25.9 40.6	980
Kampala East Central	26.1 12.7	1,181	17.2	362 827
Eastern	7.4	691	17.2	599
Northeast	4.6	634	6.8	450
North Central	5.2	777	9.1	633
West Nile	5.6	630	11.8	482
Western	6.2	897	11.0	673
Southwest	3.0	884	6.1	622
Education				
No education	3.0	1,851	5.9	551
Primary incomplete	6.5	3,474	12.4	2,605
Primary complete	9.2	807	12.1	864
Secondary+	25.6	1,229	27.7	1,601
Wealth quintile				
Lowest	5.0	1,180	8.2	867
Second	6.0	1,496	11.2	1,126
Middle	5.1	1,445	11.3	1,101
Fourth	7.6	1,511	15.0	1,196
Highest	19.1	1,744	30.0	1,338
Total 15-49	9.1	7,376	16.1	5,628
Total 15-59	8.7	7,748	14.7	6,330

Reasons for not using a condom at

last sex differ between men and women (Table 6.5). Almost three-quarters of men said they trusted their partners did not have a disease. This is the predominant reason given by men for not using a condom. By comparison, only 40 percent of women cited trust that their partners did not have a disease as a reason for not using a condom. Women gave a wider variety of reasons for not using a condom than men. Almost one-quarter said they did not use a condom because they do not like them (compared with only 7 percent of men); 16 percent of women said their partner refused to use a condom (compared with 2 percent of men); and 15 percent said they had no knowledge of condoms (compared with 7 percent of men).

	Among those having sex in the 12 months preceding the survey and did not use a condom at last sex										
	V	Vomen 15-4	.9		Men 15-49						
Reason for nonuse	All women	Last sex with husband/ live-in partner	Last sex with non- cohabiting partner	All men	Last sex with wife/ live-in partner	Last sex with non- cohabiting partner					
No knowledge of condoms	15.2	15.5	11.4	7.1	6.8	9.3					
No knowledge of condom source	7.5	7.7	4.8	2.7	2.6	3.9					
Condom source not accessible	4.2	4.1	5.4	4.7	3.4	13.3					
Did not have condom at the time	9.1	8.6	15.1	9.6	5.8	34.0					
Cost too much	0.6	0.6	0.5	1.4	0.9	4.6					
Too messy/ inconvenient	3.1	2.9	5.1	3.0	2.9	3.8					
Condoms not effective	1.9	2.0	0.6	1.3	1.3	1.7					
Does not like condoms	23.5	23.5	24.1	7.0	6.8	8.5					
Wanted to get pregnant	6.2	6.2	5.7	8.5	9.1	4.9					
Trusts partner does not have a disease	40.1	41.5	23.3	73.4	79.9	31.0					
Respondent does not have a disease	3.0	3.2	1.5	7.2	7.8	3.8					
Partner insisted on not using	15.8	15.3	22.6	2.4	1.8	6.4					
Religious prohibition	1.4	1.5	0.0	1.5	1.6	0.6					
Other	10.2	10.4	7.6	7.3	7.5	5.8					
Number of women/men	6,696	6,178	518	4,713	4,084	630					

Almost 9 out of 10 respondents who did not use a condom at last sex reported that their last sexual partner was a spouse or cohabiting partner. Therefore, the responses for all respondents who did not use a condom at last sex closely match responses for respondents whose last sex was with a spouse/partner. Different patterns emerge when looking at respondents whose last sexual partner was not a spouse or cohabiting partner. Among women, almost equal proportions (23 and 24 percent) cite dislike of condoms, trust that their partner does not have a disease, and partner's refusal to use a condom as reasons for nonuse. Other reasons given by women whose last sex was with a noncohabiting partner include not having a condom at the time and lack of knowledge about condoms. Among men whose last sex was with a noncohabiting partner, not having a condom is the leading response (34 percent), followed by trust that their partner does not have a disease (31 percent). Thirteen percent of men who did not use a condom in their last sex with a noncohabiting partner said that they did not know a place to get condoms, while 9 percent said they did not know about condoms at all.

#### 6.7 **HIGHER-RISK SEX**

Condom use is an important tool in the fight to curtail the spread of HIV/AIDS. Although truly effective protection would require condom use at every sexual encounter, the most important sexual encounters to cover are those considered to be 'higher risk.' In the context of this survey, higher-risk sex is defined as sex with a nonmarital, noncohabiting partner in the 12 months preceding the survey. Table 6.6 shows for women and men who were sexually active in the 12 months preceding the survey, the proportion who engage in higher-risk sex and among those, the proportion who used a condom during their last sexual encounter with such partners.

The results show that, among respondents aged 15-49 who were sexually active in the preceding 12 months, 15 percent of women and 37 percent of men engage in sex with a nonmarital, noncohabiting partner. Of them, 47 percent of women and 53 percent of men reported using condoms at the most recent higher-risk sex.

Table 6.6 Higher-risk sex and condom use at last higher-risk sex in the 12 months preceding the survey, Uganda 2004-05

		Womer	า 15-49			Men	15-49	
	0	who had sex 12 months	higher-risk s	ose who had ex in the past nonths	Among thos sex in the mor	past 12	higher-risk se	se who had ex in the past onths
Background characteristic	Percentage engaging in higher-risk sex in the past 12 months	Number of women who had sex in the past 12 months	Percentage who used condom at last higher- risk sex	Number of women who had higher- risk sex in the past 12 months	Percentage engaging in higher-risk sex in the past 12 months	Number of men who had sex in the past 12 months	Percentage who used condom at last higher- risk sex	Number of men who had higher- risk sex in the past 12 months
Age								
15-19	45.4	816	55.6	371	92.3	528	50.5	487
20-24	16.2	1,639	49.1	266	63.0	840	59.4	529
25-29	10.2	1,609	51.7	164	34.7	1,089	59.1	378
30-39	10.2	2,208	32.6	226	24.2	1,980	52.2	478
40-49	9.3	1,105	31.5	102	15.9	1,192	35.5	189
Marital status								
Never married <sup>1</sup>	93.2	586	55.4	546	98.3	1,025	56.0	1,008
Currently married	3.0	6,119	48.0	183	18.3	4,168	52.4	761
Formerly married	59.5	671	34.3	399	67.4	435	46.8	293
Residence								
Urban	29.0	1,024	64.7	297	52.6	806	73.7	424
Rural	13.1	6,353	40.3	832	34.0	4,822	48.1	1,638
Region								
Central	26.6	1,235	50.6	329	50.1	980	68.1	491
Kampala	34.6	448	66.3	155	60.7	362	78.5	220
East Central	18.9	1,181	55.9	223	38.7	827	55.8	320
Eastern	15.4	691	36.7	107	48.0	599	42.7	288
Northeast	8.6	634	28.0	54	18.5	450	35.9	83
North Central	11.2	777	17.2	87	28.1	633	34.4	178
West Nile	5.5	630	43.2	35	29.0	482	45.8	139
Western	9.9	897	39.0	89	29.4	673	50.0	198
Southwest	5.6	884	29.2	50	23.3	622	26.2	145
Education								
No education	6.2	1,851	26.6	115	19.3	551	36.4	107
Primary incomplete	13.6	3,474	36.7	473	35.8	2,605	44.4	932
Primary complete	17.1	807	42.8	138	31.3	864	47.7	270
Secondary+	32.7	1,229	65.6	402	46.9	1,601	69.1	752
Wealth quintile								
Lowest	12.1	1,180	32.3	142	25.3	867	39.7	220
Second	12.3	1,496	33.1	183	30.7	1,126	41.5	345
Middle	10.4	1,445	34.1	150	32.1	1,101	44.3	354
Fourth	14.3	1,511	43.6	216	38.5	1,196	46.5	460
Highest	25.1	1,744	63.0	437	51.1	1,338	73.1	683
Total 15-49	15.3	7,376	46.7	1,128	36.6	5,628	53.4	2,062
Total 15-59	14.9	7,748	46.1	1,151	34.0	6,330	52.1	2,153

<sup>&</sup>lt;sup>1</sup> Evidently, a few respondents who had sex in the 12 months preceding the survey and who were recorded as never having been married nevertheless reported having only sexual partners who were either a spouse or cohabiting partner. This is why the proportion is not quite 100.0 percent.

By the definition used here, all premarital sex is higher-risk sex. Consequently, the prevalence of higher-risk sex is greater among the youngest respondents and among those who have never married or who used to be married. Among women, condom use at last higher-risk sex is also highest among younger women, while among men, it is highest among those in their twenties. Urban women and men are more likely than rural respondents to engage in higher-risk sex and also more likely to use condoms when having higher-risk sex. Differences in the extent of higher-risk sex by region could be a result of differences in the age and marital status composition of the respondents. It is encouraging that in those regions where higher-risk sex is more prevalent (i.e., Kampala, Central, East Central and Eastern regions) condom use at last higher-risk sex is also more prevalent.

There is a tendency for the prevalence of higher-risk sexual behaviour to increase with education. However, the likelihood of having used a condom during the most recent higher-risk sexual encounter also increases steadily with education level for both sexes. Differences by wealth quintile are not strong, except at the highest quintile, where both higher-risk sex and condom use are also the highest.

#### 6.8 **SEX WITH PROSTITUTES**

Respondents in the 2004-05 UHSBS were asked about paid sex. Men were asked, "In the past 12 months, did you pay anyone to have sex?" Women were asked, "In the past 12 months, did any man pay you to have sex?" Women who receive payment for sex may have numerous partners. They are at high risk for contracting HIV/AIDS and other sexually transmitted infections and then passing them on to subsequent partners.

The survey results show that less than one-half of one percent of women 15-49 said they had been paid to have sex in the past 12 months, while one percent of men 15-49 reported they engage in paid sex in the 12 months preceding the survey (data not shown). Given the small numbers, it would be misleading to present any breakdown by characteristics. However, it should be noted that 56 percent of men used a condom the last time they paid for sex.

#### 6.9 **HIV COUNSELLING AND TESTING**

# VCT coverage

Awareness of HIV status can motivate individuals to further protect themselves against infection or to protect their partners from acquiring the disease. However, survey data indicate that the vast majority of Ugandans have never been tested for HIV and do not know their status. As shown in Table 6.7, only 13 percent of women aged 15-49 and 11 percent of men 15-49 have been tested for HIV and received their results. An additional 2 percent of respondents were tested but never received their test results. Individuals may be exposed to risk of infection with HIV repeatedly over time. For this reason, it may be important for an individual to be tested multiple times. Four percent of women and men have been tested in the 12 months preceding the survey.

Men and women aged 25-29 are in the age group most likely to have been tested for HIV. HIV testing is most common among respondents in urban areas and those in Kampala and Central regions. Higher education level and wealth are associated with a higher likelihood of having received an HIV test.

Over recent years, the proportion of women aged 15-49 who have ever been tested for HIV (regardless of whether they received results) has increased from 8 percent in 2000-01 to 15 percent in 2004-05, while the proportion of men 15-49 tested has remained constant at about 12 percent.

		Wome	n 15-49		Men 15-49					
Background characteristic	Percent- age ever tested for HIV and received results	Percent- age ever tested and did not receive results	Percentage tested and received results in past 12 months	Number of women	Percent- age ever tested for HIV and received results	Percent- age ever tested and did not receive results	Percentage tested and received results in past 12 months	Number of men		
Age										
15-19	7.2	1.7	2.9	2,186	3.7	0.9	1.9	2,070		
20-24	14.8	2.3	4.7	1,933	13.1	1.9	5.2	1,262		
25-29	16.8	2.9	3.9	1,764	14.4	2.4	4.5	1,220		
30-39	14.0	1.9	4.1	2,542	13.8	1.7	4.4	2,116		
40-49	11.0	1.3	4.8	1,516	11.5	1.8	3.7	1,342		
		2.0	3.7			1.3				
15-24	10.8	2.0	3./	4,119	7.3	1.3	3.2	3,332		
Marital status	0.4	4.6		2.220	0.0	4.0	2.2	2.4.40		
Never married	9.4	1.6	4.7	2,220	8.0	1.3	3.3	3,140		
Ever had sex	17.2	2.2	7.8	879	12.0	1.5	4.8	1,701		
Never had sex	4.3	1.3	2.6	1,342	3.2	1.0	1.5	1,439		
Currently married	12.5	2.2 1.8	3.3 6.3	6,358	12.7 12.0	1.8 2.5	4.3 3.0	4,237		
Formerly married	18.9	1.0	0.3	1,362	12.0	2.3	3.0	633		
Residence	24.0	2.5	0.0	4 500	24.2	1.0	0.5	1 200		
Urban	31.0 9.4	2.5 1.9	8.9 3.2	1,508 8,433	24.3 8.4	1.0 1.8	8.5 3.0	1,200 6,809		
Rural	9. <del>4</del>	1.3	3.2	0,433	0.4	1.0	3.0	0,009		
Region				4.6-6	10.0		2.2			
Central	16.4	2.2	4.6	1,656	13.0	1.7	3.3	1,451		
Kampala	36.6	2.9	9.4	668	26.3	1.2	8.6	547		
East Central	10.3	1.1	3.4	1,555	9.9	1.9	3.1	1,146		
Eastern	8.9	2.0	4.6	857	9.0	1.6	3.9	770		
Northeast	5.8	1.0	1.9	829	7.9	2.1	3.4	610		
North Central	13.9	2.6	4.3	970	11.2	1.5	5.3	795		
West Nile	10.8	1.5	4.4	958	8.2	2.2	4.1	735		
Western	8.9	3.6	3.1	1,140	7.7	1.6	2.6	945		
Southwest	9.2	1.6	2.5	1,309	7.8	1.2	2.5	1,012		
Education										
No education	6.1	1.8	2.4	2,255	5.2	1.4	2.7	668		
Primary incomplete	9.7	1.9	3.2	4,596	6.1	1.4	2.2	3,723		
Primary complete	18.1	1.7	4.2	1,115	9.7	1.6	3.3	1,133		
Secondary+	24.1	2.7	7.6	1,957	19.8	2.2	6.7	2,477		
Wealth quintile						· · · · · · · · · · · · · · · · · · ·				
Lowest	5.8	1.2	2.3	1,610	5.0	1.7	2.0	1,209		
Second	8.6	1.7	3.3	2,038	6.6	1.7	3.0	1,628		
Middle	8.2	2.3	2.5	1,849	6.4	2.0	2.3	1,506		
Fourth	11.1	2.5	3.4	2,000	10.5	1.8	3.9	1,669		
Highest	25.3	2.3	7.5	2,443	21.1	1.3	6.7	1,998		
Total 15-49	12.7	2.0	4.0	9,941	10.8	1.7	3.8	8,010		
Total 15-59	12.1	1.9	3.9	10,826	10.7	1.6	3.8	8,830		
10tal 13-33	14.1	1.9	3.9	10,020	10.7	1.0	3.0	0,030		

# Reasons for not seeking voluntary counselling and testing

To increase the proportion of people who know their HIV status, it is important to know why people do not go for voluntary counselling and testing (VCT). Therefore, respondents in the UHSBS who had never been tested for HIV were asked why not. Results are shown in Table 6.8.

The most common reason given by both women and men is that they do not need to get tested or that they have a low risk of having HIV. About one-third of women and almost half of men cite this reason. The next most common reason for not getting tested—given by about 20 percent of women and men-is not knowing where to go. Eighteen percent of women and 13 percent of men say they have never been tested because it costs too much. Not wanting to know the test results is also a fairly common reason for not getting tested, being cited by 16 percent of women and 9 percent of men.

Table 6.8 <b>Reasons for never having had an HIV</b>	test, Uganda 2	004-05				
	Percentage citing re					
Reasons for never having an HIV test	Women 15-49	Men 15-49				
No knowledge of HIV testing	10.8	6.7				
Don't know where to get one	21.9	19.7				
Test costs too much	17.6	13.1				
Don't need test/low risk	31.2	45.6				
Don't want to know if has the virus	15.8	9.4				
Can't get treatment if HIV positive	1.3	1.3				
Testing center too far	2.7	4.6				
Unconcerned, not a priority	8.1	8.2				
Other/missing	8.2	6.8				
Number	8,480	7,017				

# HIV testing during antenatal care visits

In theory, all women should be counselled about HIV during antenatal care (ANC) and offered a test. Treatment exists that can significantly reduce the chance of an infant becoming infected with HIV from an infected mother during childbirth. Even where treatment is not available, new mothers infected with HIV should receive counselling on infant feeding practices best for their baby and on future pregnancy choices.

In the UHSBS, only 28 percent of women 15-49 who gave birth in the two years preceding the survey said they were counselled on HIV during ANC (Table 6.9). Almost 6 percent were offered and received an HIV test, but 1 in 7 women tested never received their test result. Only 2 percent of women who gave birth in the past two years were counselled, offered an HIV test, received the test, and found out their test results.

Women in urban areas were more likely to have received HIV counselling and testing during ANC. Prevalence of these services varied greatly by region. Respondents in Kampala were much more likely to receive counselling (76 percent) than respondents in other regions. Respondents in Northeast region were least likely to receive HIV counselling and testing during ANC (19 percent counselled and 3 percent tested).

Table 6.9 HIV testing during antenatal care, Uganda 2004-05 Among women 15 to 49 who gave birth in the two years preceding the survey, percentage who were: Tested during Number of antenatal care Counselled women who Tested, visit and: gave birth during counselled, Background Received antenatal No and know in the past characteristic care visit1 results2 results2 results 2 years Age 15-19 4.3 2.1 386 28.2 1.4 20-24 28.1 5.6 0.6 2.5 1,102 25-29 29.3 4.5 1.0 1.8 1,006 27.4 4.7 30-39 0.8 1.8 1,063 40-49 3.5 24.0 0.0 1.5 175 Residence Urban 61.7 10.2 1.1 6.4 394 Rural 24.1 4.2 0.8 1.5 3,338 Region Central 23.5 5.6 1.4 1.8 604 Kampala 76.1 13.4 9.3 150 1.6 1.7 East Central 21.3 5.8 0.4 603 Eastern 20.7 5.0 1.1 1.8 352 Northeast 19.2 2.8 0.4 1.7 307 North Central 4.0 0.5 421 31.6 2.6 West Nile 25.8 3.6 0.4 1.0 358 473 Western 3.4 1.4 0.9 31.6 Southwest 33.7 4.2 0.5 1.9 464 Total 28.1 4.8 0.8 2.0 3,732

#### 6.10 COMMUNICATION ABOUT HIV WITH PARTNERS

Tables 6.10.1 and 6.10.2 show the percentage of men and women who have ever discussed HIV with any of their partners, and the percentage who know the HIV status of their partner or partners. These data show that discussion of HIV between partners and knowledge of partner's status are low. Eightythree percent of respondents have never discussed HIV with any sexual partner, and 89 percent do not know the HIV status of any of their partners. These percentages are similar among men and women.

<sup>&</sup>lt;sup>1</sup> A woman is considered to have received counselling only if she was spoken to about all three of the following: transmission of HIV to babies, preventing the virus, and getting tested for the virus.

<sup>&</sup>lt;sup>2</sup> Only women who either asked for or were offered the test are included. Women who were required to take the test are excluded from this measure.

Table 6.10.1 Partner communication about HIV among women, Uganda 2004-05

		Amon	g women aş	ged 15-49 v	vho have ε	ever had sex,	, percentage	e who:			
		Have d	iscussed AIE	OS with:		_	Know HI	√ status of:			
Background characteristic	All spouses/ partners	Some spouses/ partners	No spouses/ partners	Missing	Total	All spouses/ partners	Some spouses/ partners	No spouses/ partners	Missing	Total	Number of women
Age											
15-19	5.9	9.8	83.0	1.4	100.0	9.0	1.2	88.4	1.3	100.0	996
20-24	5.4	11.9	81.3	1.5	100.0	9.2	1.0	88.5	1.3	100.0	1,807
25-29	4.5	12.8	80.9	1.8	100.0	8.9	1.1	88.4	1.6	100.0	1,745
30-34	3.7	10.9	83.7	1.7	100.0	6.9	1.4	90.3	1.4	100.0	1,452
35-39	4.4	8.5	85.2	1.9	100.0	7.6	0.8	89.9	1.7	100.0	1,084
40-44	5.2	7.2	85.6	2.0	100.0	6.9	1.1	90.1	1.9	100.0	870
45-49	4.5	5.6	88.9	1.0	100.0	5.7	1.3	92.3	0.7	100.0	645
Marital status											
Never married	9.0	11.2	78.5	1.3	100.0	13.3	1.7	84.0	1.0	100.0	879
Married	4.2	10.1	83.9	1.8	100.0	7.6	0.8	90.1	1.5	100.0	6,358
Widowed	5.7	9.5	83.2	1.6	100.0	9.0	1.6	87.8	1.6	100.0	581
Divorced	3.9	11.5	83.6	1.0	100.0	5.3	2.8	90.9	0.9	100.0	781
Residence											
Urban	8.8	26.5	64.4	0.3	100.0	18.5	2.4	78.9	0.1	100.0	1,274
Rural	4.0	7.5	86.6	1.9	100.0	6.2	0.9	91.2	1.7	100.0	7,325
Region											
Central	5.6	12.8	81.2	0.4	100.0	9.4	0.7	89.6	0.3	100.0	1,437
Kampala	9.9	32.2	57.5	0.4	100.0	23.8	1.0	75.1	0.2	100.0	566
East Central	4.8	6.7	87.9	0.6	100.0	7.6	1.5	90.4	0.4	100.0	1,374
Eastern	2.7	8.6	87.6	1.0	100.0	4.7	1.6	92.9	0.9	100.0	766
Northeast	1.7	4.8	84.5	8.9	100.0	3.0	0.5	87.8	8.7	100.0	730
North Central	6.1	11.8	80.9	1.2	100.0	9.2	1.0	88.7	1.0	100.0	896
West Nile	7.1	9.1	80.9	2.7	100.0	9.1	1.9	86.8	2.2	100.0	793
Western	1.8	7.2	89.2	1.7	100.0	3.8	1.0	93.9	1.4	100.0	986
Southwest	4.0	7.3	88.4	0.3	100.0	6.4	0.9	92.4	0.3	100.0	1,052
Education											,
No education	2.9	4.7	88.0	4.4	100.0	4.1	1.0	90.7	4.2	100.0	2,180
Primary incomplete	4.2	8.2	86.8	0.8	100.0	6.2	1.0	92.2	0.6	100.0	3,944
Primary complete	5.4	14.0	79.9	0.6	100.0	9.9	0.9	88.8	0.4	100.0	961
Secondary+	8.5	21.6	69.3	0.6	100.0	17.6	1.8	80.4	0.2	100.0	1,496
Wealth quintile											
Lowest	3.3	5.5	86.6	4.5	100.0	4.2	1.1	90.3	4.4	100.0	1,389
Second	3.6	6.3	87.6	2.5	100.0	5.1	0.7	92.0	2.2	100.0	1,742
Middle	3.7	6.5	88.9	0.8	100.0	5.5	0.9	93.1	0.5	100.0	1,650
Fourth	5.2	8.7	85.6	0.5	100.0	7.7	1.1	90.7	0.5	100.0	1,732
Highest	7.1	21.1	71.2	0.6	100.0	15.3	1.7	82.7	0.3	100.0	2,086
Total 15-49	4.8	10.3	83.3	1.6	100.0	8.0	1.1	89.4	1.4	100.0	8,599
Total 15-59	4.6	9.6	84.1	1.6	100.0	7.7	1.0	89.8	1.5	100.0	9,483

There is little difference in discussion of HIV with partners by age group. Similarly, knowledge of partner's status does not vary by age. Respondents in urban areas are more likely than those in rural areas to discuss HIV with partners and to know their partner's status. Around two-thirds of urban respondents have never discussed HIV with a partner, compared with 86-87 percent of rural respondents. Four in five urban residents do not know the HIV status of any partner, compared with 91 percent of rural respondents.

Higher education and wealth are associated with more discussion of HIV with partners and knowledge of partner status. Almost 9 in 10 respondents with no education have never discussed HIV with any sexual partner, compared with 7 in 10 respondents with secondary education or higher. Less than 1 in 10 respondents with no education knows the HIV status of any partner, compared with almost 2 in 10 of respondents with secondary education or higher. Among respondents in the highest wealth quintile, 7 to 8 percent have discussed HIV with all sexual partners, compared with 4 to 6 percent of respondents in the lower quintiles. Furthermore, 15 percent in the highest quintile know the HIV status of all partners, compared with 4 to 7 percent of respondents in the other quintiles.

Table 6.10.2
Partner communication about HIV among men, Uganda 2004-05

			Among me	en aged 15-	49 who ha	ive ever had	l sex, percei	ntage who:			
		Have d	iscussed AIE	OS with:		-	Know HI\	/ status of:			
Background characteristic	All spouses/ partners	Some spouses/ partners	No spouses/ partners	Missing	Total	All spouses/ partners	Some spouses/ partners	No spouses/ partners	Missing	Total	Number of men
Age											
15-19	5.8	3.8	89.2	1.2	100.0	6.8	1.4	90.8	1.0	100.0	873
20-24	6.8	10.7	81.9	0.7	100.0	8.9	2.8	87.6	0.7	100.0	1,073
25-29	5.8	11.0	82.7	0.5	100.0	9.2	1.4	88.9	0.4	100.0	1,186
30-34	5.8	13.4	80.1	0.7	100.0	10.0	2.1	87.4	0.5	100.0	1,191
35-39	4.2	10.0	85.0	0.7	100.0	6.9	2.1	90.3	0.7	100.0	913
40-44	5.0	10.7	83.2	1.1	100.0	7.2	3.0	88.7	1.0	100.0	783
45-49	5.2	8.8	85.0	1.0	100.0	8.6	1.7	88.7	1.0	100.0	550
Marital status											
Never married	6.3	8.2	84.5	1.0	100.0	8.3	2.1	88.7	1.0	100.0	1,701
Married	5.4	11.1	82.8	0.7	100.0	8.8	2.0	88.6	0.6	100.0	4,237
Widowed	7.2	10.7	77.9	4.3	100.0	7.8	1.7	86.2	4.3	100.0	100
Divorced	4.3	7.9	87.8	0.0	100.0	5.6	2.6	91.7	0.0	100.0	532
Residence											
Urban	8.3	23.3	68.0	0.4	100.0	16.8	4.0	79.1	0.2	100.0	996
Rural	5.1	7.7	86.3	0.9	100.0	6.9	1.7	90.6	0.8	100.0	5,575
Region											
Central	9.1	12.3	78.4	0.1	100.0	12.8	2.9	84.4	0.0	100.0	1,191
Kampala	9.1	27.2	63.3	0.5	100.0	19.5	6.3	73.7	0.5	100.0	439
East Central	5.5	9.9	84.4	0.1	100.0	7.6	2.4	89.8	0.1	100.0	954
Eastern	1.7	7.2	91.1	0.0	100.0	3.6	0.8	95.5	0.1	100.0	679
Northeast	2.1	7.9	85.1	4.9	100.0	3.1	1.6	90.7	4.6	100.0	515
North Central	3.8	8.8	87.0	0.4	100.0	6.0	0.4	93.6	0.0	100.0	713
West Nile	8.6	5.7	84.7	1.0	100.0	9.8	1.7	87.7	0.9	100.0	571
Western	4.9	7.9	86.2	1.0	100.0	6.9	2.0	90.2	1.0	100.0	769
Southwest	4.1	7.5	87.6	0.8	100.0	6.6	1.3	91.3	0.8	100.0	740
Education											
No education	3.6	4.4	88.7	3.2	100.0	4.9	1.3	90.5	3.2	100.0	612
Primary incomplete	4.8	6.2	88.3	0.7	100.0	5.9	1.9	91.6	0.6	100.0	2,995
Primary complete	4.9	9.2	85.4	0.5	100.0	6.9	2.3	90.4	0.4	100.0	980
Secondary+	7.8	18.2	73.7	0.3	100.0	14.0	2.5	83.3	0.2	100.0	1,976
,	7.0	10.2	, 5.,	0.5	100.0	1 1.0	2.5	03.3	0.2	100.0	1,570
Wealth quintile	4.0	4.2	90 1	1 0	100.0	6.0	1.0	01.2	1 0	100.0	990
Lowest	4.9	4.2	89.1	1.8	100.0	6.0	1.0	91.2	1.8	100.0	
Second Middle	4.1	6.0	88.4	1.5	100.0	5.4	1.4	91.9	1.2	100.0	1,317
	5.9	6.6	87.2	0.4	100.0	7.2	1.9	90.6	0.3	100.0	1,261
Fourth	4.2	9.2	86.3	0.3	100.0	5.8	2.3	91.5	0.3	100.0	1,387
Highest	8.2	20.5	70.9	0.4	100.0	15.3	3.2	81.3	0.3	100.0	1,617
Total 15-49	5.6	10.1	83.5	0.8	100.0	8.4	2.1	88.8	0.7	100.0	6,571
Total 15-59	5.5	9.9	83.8	0.8	100.0	8.3	2.0	89.0	0.7	100.0	7,390

#### 6.11 PREVALENCE OF SEXUALLY TRANSMITTED INFECTIONS

All respondents who ever had sex were asked if they had had a sexually transmitted infection (STI) or symptoms of an STI in the 12 months preceding the survey. It is important to point out that a respondent's self report of STI symptoms is not the same as a clinical diagnosis. In addition, if a respondent does not report symptoms of an STI, it does not mean that he or she does not have one. Because of the stigma associated with STIs, individuals may underreport the prevalence of STIs and their symptoms. Furthermore, it is possible to have an STI with no symptoms, especially in women.

According to Table 6.10, 33 percent of women and 21 percent of men who ever had sex report they had symptoms of an STI or a genital discharge or a genital sore/ulcer in the 12 months preceding the survey. This represents a sizeable increase since 2000-01, when only 17 percent of women aged 15-49 and 6 percent of men aged 15-49 who ever had sex reported symptoms of an STI.

The likelihood of reporting symptoms of an STI is highest among women aged 20-39 and men aged 25-49. Never-married women and men were least likely to report symptoms of an STI. Formerly married women and men were slightly more likely to report STI symptoms than those who are currently married. Women in urban areas are more likely to report symptoms of an STI than women in rural areas. Among men, those in urban and rural areas have roughly the same probability of reporting STI symptoms.

Respondents in East Central region were most likely to report STI symptoms (44 percent of women and 29 percent of men). Respondents in Northeast region, on the other hand, are least likely to report STI symptoms (14 percent of women and 8 percent of men). Reporting of STI symptoms increases with level of education among men and women, with the exception of a slight decrease between complete primary and secondary education or higher. Among women, reporting of STI symptoms increases with each wealth quintile. Among men, reporting of STI symptoms increases from the lowest through the fourth quintile before decreasing slightly between the fourth and the highest quintiles. Circumcised men are slightly less likely to report having had an STI than those who are not circumcised. Women and men with traditional tattooing or cutting of skin are more likely to report symptoms of an STI than those without.

Respondents in the 2004-05 UHSBS who reported having an STI or symptoms of an STI in the 12 months preceding the survey were asked if they sought treatment. Figure 6.1 shows that 56 percent of women and 61 percent of men sought treatment. Most sought treatment from a health facility as opposed to a shop or pharmacy, or a traditional healer.

				sex, percentag st 12 months		Among men who ever had sex, percentage who reported having in the past 12 months:					
Background characteristic	An STI	An abnormal genital discharge	A genital sore/ ulcer	An STI or discharge or genital sore/ ulcer	women	An STI	An abnormal genital discharge	A genital sore/ ulcer	An STI or discharge or genital sore/ ulcer	Number of men who eve had sex	
Age											
15-19	10.2	16.0	16.2	26.3	996	6.8	9.7	6.2	14.4	873	
20-24	17.7	22.2	17.5	33.0	1,807	10.2	13.0	7.2	19.0	1,073	
25-29	18.4	22.4	20.9	35.0	1,745	13.6	16.9	9.2	23.4	1,186	
30-39	16.5	23.8	19.8	35.3	2,536	12.7	16.4	7.4	22.5	2,105	
40-49	11.4	19.4	16.3	28.9	1,515	10.8	15.5	5.5	20.6	1,333	
Marital status											
Never married	12.9	14.8	13.6	25.7	879	8.0	10.1	6.6	15.2	1,701	
Currently married	15.4	21.6	18.5	32.8	6,358	12.2	16.5	6.7	22.2	4,237	
Formerly married	17.8	25.5	21.6	35.9	1,362	13.8	16.8	11.4	24.7	633	
Residence											
Urban	20.4	22.0	20.1	36.5	1,274	12.3	15.5	8.2	21.2	996	
Rural	14.7	21.4	18.2	31.9	7,325	11.1	14.7	7.0	20.5	5,575	
					. ,					-,	
Region	24.6	20.1	25.1	42.0	1 427	15.5	20.6	7.0	26.0	1 101	
Central	24.6	29.1	25.1	42.9	1,437 566	15.5	20.6	7.9	26.0	1,191	
Kampala Fact Control	18.6	19.5 27.3	19.5 22.4	33.2		12.9 15.0	17.8 21.2	8.0	23.0 28.7	439 954	
East Central Eastern	20.8 10.3	10.4	14.1	44.3 20.9	1,374 766	8.0	9.5	10.1 8.7	16.5	679	
Northeast	2.9	10.4	6.9	14.1	730	3.4	6.1	2.6	8.0	515	
North Central	6.6	16.9	14.9	25.5	896	6.9	10.4	8.3	17.5	713	
West Nile	8.9	19.0	17.8	28.4	793	6.5	7.4	5.2	17.5	571	
Western	21.1	30.1	19.4	37.3	986	12.7	14.6	6.1	21.2	769	
Southwest	14.6	18.3	17.8	28.9	1,052	13.6	17.2	4.8	21.3	740	
	11.0	10.5	17.0	20.5	1,032	13.0	17.2	1.0	21.3	, 10	
Education	40.4	40.0	464	26.4	2.400	0.0	42.0	- 4	47.4	640	
No education	10.4	18.2	16.1	26.1	2,180	8.8	13.8	5.4	17.1	612	
Primary incomplete	15.4	22.9	19.8	34.2	3,944	12.0	15.7	7.9	21.8	2,995	
Primary complete	19.4 20.8	25.1	19.5 17.7	36.8	961	11.1	15.9 13.4	8.7 5.8	22.5 19.1	980	
Secondary+	20.6	20.6	17.7	35.0	1,496	11.0	13.4	3.0	19.1	1,976	
Wealth quintile											
Lowest	7.5	16.1	14.5	23.5	1,389	7.6	11.5	6.2	16.5	990	
Second	12.8	20.4	16.8	29.4	1,742	8.8	12.8	5.7	17.6	1,317	
Middle	15.2	22.0	19.9	33.7	1,650	10.5	14.7	6.7	20.3	1,261	
Fourth	18.6	24.4	20.8	35.8	1,732	13.6	17.6	9.2	24.6	1,387	
Highest	20.8	23.3	19.6	37.7	2,086	14.1	16.3	7.5	22.5	1,617	
Circumcised											
Yes	na	na	na	na	na	10.5	12.6	7.6	18.7	1,725	
No	na	na	na	na	na	11.6	15.6	7.0	21.3	4,846	
Tattoos, skin cuts											
Yes	16.7	22.7	20.8	35.3	3,932	13.1	17.3	7.9	23.3	2,336	
No	14.5	20.5	16.6	30.3	4,667	10.3	13.5	6.7	19.1	4,235	
Total 15-49	15.5	21.5	18.5	32.6	8,599	11.3	14.9	7.1	20.6	6,571	
Total 15-49	15.0	20.9	17.7	31.4	9,483	10.9	14.9	7.1	20.3	7,390	

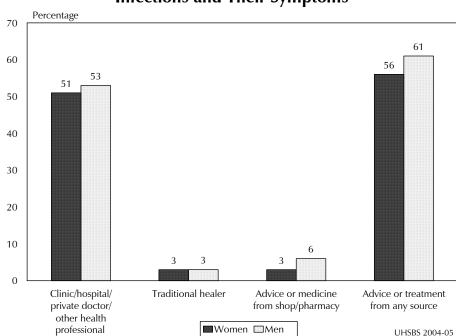


Figure 6.1 Sources of Treatment for Sexually Transmitted **Infections and Their Symptoms** 

#### 6.12 INJECTIONS, BLOOD TRANSFUSIONS, AND CONTACT WITH BLOOD

When given with nonsterile equipment, injections and blood transfusions pose risk of infection with HIV and other diseases. An additional risk of infection comes from blood transfusions when the blood is not properly screened. Table 6.11 shows that 51 percent of women and 38 percent of men reported receiving an injection in the 12 months preceding the survey, with an average number of injections per respondent of two. Five percent of women and 2 percent of men report ever receiving a blood transfusion.

The data show little variation in the use of injections and blood transfusions by background characteristics. Having received an injection in the past 12 months varied by education among men and women. For women, the proportion who have received an injection in the past 12 months ranges from 44 percent among those with no education to 55 percent among those with secondary education or higher. For men, the proportion ranges from 29 percent among those with no education to 39 percent of those with secondary education or higher. Prevalence of blood transfusions increased with age among women, from 3 percent among women aged 15-19 to 9 percent among women 45-49. The percentage of women who have received a blood transfusion also varied by region from 3 percent in Northeast to 8 percent in Southwest.

Table 6.12 Injections and blood transfusions, Uganda 2004-05 Women 15-49 Men 15-49 Percentage Percentage who Average Percentage who Average Percentage received an number received an number who ever who ever injection in injections received injection in injections received Background the past per person a blood Number of the past per person a blood Number of characteristic 12 months per year transfusion women 12 months per year transfusion men Age 15-19 48.0 1.9 2.5 2,186 40.1 1.4 2.0 2,070 20-24 51.6 2.2 4.2 1,933 34.0 1.7 2.8 1,262 1,764 25-29 54.6 1,220 2.5 3.8 37.3 2.1 2.3 30-34 54.4 2.7 5.5 1,457 37.9 2.1 1.9 1,200 35-39 51.1 2.7 5.8 1,085 37.7 2.0 1.0 916 40-44 47.3 2.9 5.5 870 38.0 2.3 2.4 788 9.1 40.4 3.3 45-49 50.6 3.2 647 2.4 554 49.7 2.0 4,119 37.8 2.3 15-24 3.3 1.5 3,332 Residence Urban 54.0 2.8 4.8 1,508 38.0 2.0 2.3 1,200 Rural 50.8 2.4 4.5 8,433 37.9 1.9 2.1 6,809 Region Central 51.5 2.5 4.5 1,656 39.4 2.0 2.6 1,451 Kampala 48.8 2.6 5.5 668 34.8 1.7 2.5 547 East Central 59.7 2.9 4.8 1,555 41.3 2.2 2.9 1,146 Fastern 55.7 3.3 3.4 857 40.5 2.0 1.9 770 Northeast 44.0 2.7 2.7 829 33.4 1.9 0.7 610 North Central 50.8 2.5 3.9 970 39.0 2.1 2.4 795 West Nile 62.6 1.7 3.5 958 43.0 1.8 2.4 735 3.9 1,140 30.4 Western 50.1 2.3 1.4 1.4 945 Southwest 37.0 1.6 7.7 1,309 37.0 1.6 2.0 1,012 **Education** No education 44.2 2.1 4.6 2,255 29.1 1.7 1.2 668 Primary incomplete 2.5 4.1 4,596 38.4 1.9 1.9 3,723 52.6 Primary complete 53.6 2.5 5.5 1,115 38.6 1.9 2.0 1,133 Secondary+ 2.8 5.0 1,957 39.3 2.0 2.9 54.9 2,477 Total 15-49 51.3 2.4 4.5 9,941 37.9 1.9 2.2 8,010 Total 15-59 50.4 2.5 4.9 10,826 38.0 1.9 2.3 8,830

Table 6.13 shows that a very low percentage of respondents have ever been immunised against yellow fever. Only 1 percent of women and 2 percent of men have ever received this immunisation. Respondents were also asked whether they had contact with the blood of other persons at work or at home. The results in Table 6.13 indicate that only 7 percent of women and men come into contact with the blood of other persons at home or at work.

Table 6.13 Yellow fever immunisations and contact with blood, Uganda 2004-05

	Percent	age of wome	n 15-49	Percer	ntage of men	15-49
Background characteristic	Ever immunised for yellow fever	Who have contact with blood of others at home or work	Number of women	Ever immunised for yellow fever	Who have contact with blood of others at home or work	Number of men
Age						
15-19	1.2	3.8	2,186	1.4	4.4	2,070
20-24	1.2	5.3	1,933	1.6	6.3	1,262
25-29	1.6	7.4	1,764	1.3	7.9	1,220
30-34	1.2	8.0	1,457	2.0	7.5	1,200
35-39	1.2	8.4	1,085	2.8	8.8	916
40-44	1.4	10.6	870	2.9	8.5	788
45-49	2.4	12.7	647	4.1	7.0	554
Residence						
Urban	2.3	3.6	1,508	3.9	5.9	1,200
Rural	1.2	7.6	8,433	1.6	7.0	6,809
Region						
Central	0.9	3.5	1,656	1.1	3.3	1,451
Kampala	2.2	1.7	668	5.3	2.7	547
East Central	1.2	7.9	1,555	1.6	3.8	1,146
Eastern	1.2	8.7	857	0.6	3.2	770
Northeast	0.2	5.8	829	0.6	12.4	610
North Central	1.0	9.3	970	1.3	2.6	795
West Nile	5.6	8.3	958	3.5	22.9	735
Western	0.2	14.5	1,140	2.9	12.0	945
Southwest	0.9	3.6	1,309	2.4	3.5	1,012
Education						
No education	1.3	7.8	2,255	1.0	9.7	668
Primary incomplete	1.1	7.6	4,596	1.2	6.8	3,723
Primary complete	0.9	6.0	1,115	1.8	5.4	1,133
Secondary+	2.4	5.4	1,957	3.6	6.7	2,477
Wealth quintile		6.0	4.640	4.0	40.4	4 200
Lowest	1.4	6.9	1,610	1.0	10.4	1,209
Second	1.4	7.9	2,038	1.0	7.6	1,628
Middle	1.0	8.9	1,849	1.7	5.5	1,506
Fourth	1.0	6.7	2,000	1.6	6.4	1,669
Highest	1.9	5.1	2,443	3.9	5.2	1,998
Total 15-49	1.4	7.0	9,941	2.0	6.8	8,010
Total 15-59	1.4	7.6		2.1	6.8	
10tal 15-59	1.4	7.0	10,826	2.1	0.0	8,830

# SEXUAL BEHAVIOUR INDICATORS AMONG YOUTH

#### 7.1 **KEY FINDINGS**

- Half of never-married men and 64 percent of never-married women aged 15-24 have never had
- Fourteen percent of both women and men aged 15-24 say they had sex before age 15.
- Twenty-nine percent of young women and 33 percent of young men who have initiated sexual activity said they used a condom the first time they had sex.
- Fourteen percent of young women and 11 percent of young men who have had sex in the previous 12 months have been tested in the previous year and know their results.

#### 7.2 **I**NTRODUCTION

This chapter addresses HIV/AIDS-related knowledge and behaviours among youth aged 15-24. Special attention is paid to this group because it accounts for half of all new HIV infections worldwide (UNAIDS, 2006). In addition to knowledge of HIV transmission, data are presented on age at first sex, condom use, age differences between sexual partners, forced sex, sex related to alcohol use and voluntary counselling and testing for HIV.

#### 7.3 HIV/AIDS-RELATED KNOWLEDGE AMONG YOUTH

Knowledge of how HIV is transmitted is one of several factors that enables people to protect themselves from the virus. Correct knowledge can also reduce stigma and discrimination against people living with HIV/AIDS. Young respondents were asked the same set of questions on facts and beliefs about HIV transmission as all other respondents. As shown in Tables 4.3, 4.5.1, 4.5.2, and 4.6, young people are generally just as likely as older adults to know about the major means of avoiding HIV/AIDS and to reject the major misconceptions (see Chapter 4).

Table 7.1 shows the level of the composite indicator, 'comprehensive knowledge,' among young people by background characteristics. Youth defined as having comprehensive knowledge are those who agree with prompted questions that individuals can reduce their chances of contracting HIV by having sex with only one faithful, uninfected partner and by using condoms, those who know that a healthy-looking person can have the AIDS virus, and those who know that HIV cannot be transmitted by mosquito bites or sharing food with a person who has HIV.

Thirty percent of young women and 35 percent of young men have comprehensive knowledge of HIV/AIDS. Knowledge increases with education and wealth. Urban youth have greater knowledge than rural youth, and knowledge varies greatly by region. More than half of youth in Kampala (52 percent of women and 53 percent of men) have comprehensive knowledge compared with less than 20 percent of young men and women in Southwest region. Notably, among never-married young women, those who ever had sex report much higher knowledge than those who never had sex.

Table 7.1 Comprehensive knowledge about AIDS among youth, Uganda 2004-05 Women 15-24 Men 15-24 Percentage Percentage with comprewith compre-Background hensive hensive. Number of Number of characteristic knowledge1 knowledge1 women men 15-19 29.0 2,186 32.5 2,070 15-17 27.9 1,364 29.8 1,300 18-19 30.7 821 37.2 770 20-24 30.1 1,933 39.9 1,262 20-22 30.6 1,267 40.3 823 23-24 29.2 666 39.1 438 Marital status Never married 32.9 2,049 35.4 2,776 42.5 733 38.6 1,391 Ever had sex Never had sex 27.6 1,316 32.2 1,385 Currently married 26.2 1,799 34.2 449 271 38.2 107 Formerly married 25.4 Residence Urban 46.0 725 47.8 546 Rural 26.0 3,393 32.9 2,785 Region Central 45.9 730 40.6 649 Kampala 51.6 339 52.9 259 East Central 38.8 655 40.6 477 Eastern 33.8 333 38.9 323 Northeast 309 16.6 32.8 211 North Central 17.1 350 31.7 273 396 329 West Nile 13.3 39.5 Western 17.5 468 23.1 355 Southwest 17.2 538 19.6 454 **Education** 10.9 451 13.3 115 No education 2.004 1,586 Primary incomplete 21.4 25.6 Primary complete 35.9 513 36.8 410 Secondary+ 1,146 48.1 49.6 1,217 Wealth quintile Lowest 18.6 612 28.5 432 Second 802 33.4 21.5 669 Middle 26.0 700 29.7 592 Fourth 27.6 855 34.5 711 1,150 929 Highest 44.4 44.1 4,119 Total 29.5 35.3 3,332

#### 7.4 KNOWLEDGE OF CONDOM SOURCES AMONG YOUTH

Condom use among young people plays an important role in the prevention of transmission of HIV and other sexually transmitted infections, as well as unwanted pregnancies. Knowing a place to get condoms helps youth to obtain and use condoms. Table 7.2 shows that groups with the highest knowledge of a source for condoms are usually the same groups who are most likely to have ever used a condom.

<sup>&</sup>lt;sup>1</sup> Comprehensive knowledge means agreeing, in response to prompted questions, that people can reduce their chances of getting the AIDS virus by having sex with only one faithful, uninfected partner and by using condoms consistently, and knowing that a healthy-looking person can have the AIDS virus and that HIV cannot be transmitted by mosquito bites or by sharing food with a person who has AIDS.

Table 7.2 Knowledge of a source for condoms and ever use of condoms among youth, Uganda 2004-05

		Wome	n 15-24		Men 15-24			
		Number of		Number of		Number of		Number of
	Knows a	women		women	Knows a	men		men 15-24
Background	source for	aged	Ever used a	15-24 who	source for	aged	Ever used a	who ever
characteristic	condoms1	15-24	condom	ever had sex	condoms1	15-24	condom	had sex
Age								
15-19	48.8	2,186	57.0	996	70.5	2,070	51.1	873
15-1 <i>7</i>	45.9	1,364	61.7	403	64.8	1,300	41.1	418
18-19	53.6	821	53.9	593	80.2	770	60.3	456
20-24	56.7	1,933	41.4	1,807	86.3	1,262	68.5	1,073
20-22	56.1	1,267	44.2	1,158	86.8	823	67.3	675
23-24	57.8	666	36.3	649	85.4	438	70.6	398
Marital status								
Never married	52.2	2,049	73.9	733	75.0	2,776	60.5	1,391
Ever had sex	75.9	733	73.9	733	88.4	1,391	60.5	1,391
Never had sex	39.0	1,316	na	na	61.6	1,385	na	na
Currently married	52.1	1,799	36.4	1,799	84.4	449	60.2	449
Formerly married	57.4	271	43.5	271	81.9	107	65.2	107
Residence								
Urban	79.8	725	81.5	500	91.8	546	75.1	350
Rural	46.7	3,393	39.4	2,303	73.5	2,785	57.6	1,597
Region								
Central	69.6	730	68.2	511	90.3	649	75.4	402
Kampala	84.6	339	84.8	240	92.2	259	89.5	154
East Central	70.5	655	64.6	478	82.4	477	68.7	295
Eastern	59.1	333	44.0	243	85.4	323	57.6	235
Northeast	23.3	309	26.3	211	53.6	211	43.8	124
North Central	38.0	350	30.3	278	65.9	273	52.8	192
West Nile	24.6	396	26.7	233	65.7	329	59.0	174
Western	39.6	468	32.6	317	66.1	355	53.4	186
Southwest	41.2	538	14.6	292	68.3	454	24.4	184
Education								
No education	22.4	451	11.7	383	48.9	115	43.6	72
Primary incomplete	42.0	2,004	36.6	1,359	69.3	1,586	50.1	877
Primary complete	62.5	513	58.7	360	72.5	410	57.4	261
Secondary+	78.4	1,146	80.6	697	89.9	1,217	76.5	734
Total 15-24	52.5	4,119	46.9	2,803	76.5	3,332	60.7	1,947

<sup>&</sup>lt;sup>1</sup> Friends, family members, and home are not considered sources for condoms. na = Not applicable

More than half of women (53 percent) and three-quarters of men (77 percent) aged 15-24 report knowing a source for condoms. About half of all youth—47 percent of women and 61 percent of men have ever used a condom. Knowledge of a source for condoms and ever use of a condom were higher among youth aged 20-24 years than among youth aged 15-19. Never-married youth who have ever had sex are most likely to know a source for condoms. Never-married women who have ever had sex are the group of women most likely to have ever used a condom, whereas among young men, those who were formerly married are most likely to have used a condom.

Youth living in urban areas and those with higher education are more likely to know of a source for condoms and to have ever used a condom. For young women, knowledge of a source of condoms increases from 22 percent among those with no education to 78 percent among those with some secondary education, and ever use of a condom increases from 12 percent to 81 percent. Percentages for men show a similar pattern. Although rates of condom use are generally higher among young men than young women,

women with complete primary and some secondary education are more likely to have used a condom at some time than young men with the same education levels.

Table 7.3

Total

Table 7.4

50.1

#### 7.5 PERCENTAGE EVER MARRIED

Data on age at first marriage among all respondents interviewed is presented in Chapter 3. Table 7.3 shows the percentage of women and men aged 15-24 who have ever been married by single year of age.

The results show a steep increase in the percentage ever married by age, from 2 percent of women and less than 1 percent of men aged 15 to almost 90 percent of women and 63 percent of men aged 24. The data confirm the fact that men marry at a later age than women. More than half of women age 19 have married compared with only 7 percent of men.

Percenta 2004-05	ge of youth w	ho have eve	er been marri	ed, Uganda
	Womer	n 15-24	Men 1	5-24
Current age	Percentage who have ever married	Number of women	Percentage who have ever married	Number of men
15	2.0	512	0.3	434
16	8.4	461	0.6	444
17	18.1	391	2.2	421
18	41.3	453	6.1	439
19	56.9	368	6.6	331
20	68.9	547	18.7	329
21	74.4	312	26.7	203
22	85.9	408	44.4	291
23	88.0	301	48.5	186
24	89.0	364	62.6	253

4,119

16.7

3,332

#### 7.6 AGE AT FIRST SEXUAL EXPERIENCE

Because heterosexual intercourse is the primary path of HIV transmission in Uganda, age at first intercourse marks the time at which most individuals first risk exposure to the virus. Tables 7.4 through 7.7 and Figure 7.1 all show data on age at first sex.

Table 7.4 shows the proportion of youth who have ever had sex according to their age at the time of the survey. This table shows that the percentage of youth who ever had sex increases steadily with age.

Seventeen percent of young women aged 15 at the time of the survey had ever had sex, compared

Percentage	e of youth who	have ever h	ad sex, Ugan	da 2004-05	
	Women	15-24	Men 15-24		
Current age	Percentage who have ever had sex	Number of women	Percentage who have ever had sex	Number of men	
15 16 17 18 19 20 21 22	16.5 30.1 45.3 65.1 80.5 87.7 91.6 96.1	512 461 391 453 368 547 312 408	23.3 32.2 41.1 54.7 65.1 76.6 80.6 89.0	434 444 421 439 331 329 203 291	
23 24 Total	96.4 98.4 68.0	301 364 4,119	89.0 92.3 58.4	186 253 3,332	

with 98 percent of women aged 24. A higher percentage of young women aged 17 and older have ever had sex than young men. The difference in sexual experience between the genders is greatest at age 19. However, among youth aged 15 and 16, men are more likely to have had sex than women.

Table 7.5 shows the percentage of young women and men who had sexual intercourse before reaching age 15 and age 18, by background characteristics. Because some of those who are aged 15-19 are under age 18 and may still initiate sex before reaching age 18, the proportion who had sex before age 18 can only be shown for those aged 18-24.

Table 7.5 Percentage of youth aged 15-24 who had sex by age 15 and by age 18, by background characteristics, Uganda 2004-05

		Wome	n 15-24		Men 15-24			
	Percentage		Percentage		Percentage		Percentage	
	who had sex	Number of	who had sex	Number of	who had sex	Number of	who had sex	Number o
Background	before	women	before	women	before	men	before	men
characteristic	age 15	15-24	age 18	18-24	age 15	15-24	age 18	18-24
Age								
15-19	12.2	2,186	a	a	16.3	2,070	a	a
15-1 <i>7</i>	10.1	1,364	a	a	17.5	1,300	a	a
18-19	15.6	821	60.5	821	14.2	770	49.6	770
20-24	17.0	1,933	63.6	1,933	10.8	1,262	45.0	1,262
20-22	15.3	1,267	62.0	1,267	11.2	823	45.7	823
23-24	20.2	666	66.7	666	9.9	438	43.6	438
Marital status								
Never married	7.2	2,049	35.5	804	14.5	2,776	42.6	1,490
Ever married	21.6	2,070	73.9	1,950	12.7	556	58.2	542
Residence								
Urban	12.1	725	62.1	494	11.8	546	44.8	374
Rural	14.9	3,393	62.8	2,260	14.6	2,785	47.2	1,658
Region								
Central	20.2	730	74.1	449	11.8	649	45.3	418
Kampala	12.0	339	60.6	244	10.7	259	43.3	182
East Central	22.2	655	77.2	423	20.3	477	55.8	268
Eastern	22.7	333	71.3	214	22.4	323	72.2	197
Northeast	5.2	309	46.8	230	7.1	211	39.3	132
North Central	16.0	350	74.9	259	18.3	273	51.7	186
West Nile	9.6	396	47.5	255	12.0	329	40.9	201
Western	10.2	468	60.6	328	10.8	355	42.5	206
Southwest	5.1	538	41.3	353	12.3	454	29.7	242
Education								
No education	20.1	451	67.1	391	12.3	115	53.5	81
Primary incomplete	17.4	2,004	69.6	1,261	16.2	1,586	48.9	806
Primary complete	10.7	513	64.0	340	15.5	410	50.2	261
Secondary+	8.8	1,146	48.5	757	11.2	1,217	43.2	883
Wealth quintile								
Lowest	13.5	612	58.8	396	13.1	432	41.8	246
Second	13.0	802	60.5	51 <i>7</i>	13.0	669	45.4	414
Middle	15.1	700	65.9	492	18.4	592	48.3	333
Fourth	17.4	855	64.5	574	15.2	<i>7</i> 11	49.8	444
Highest	13.2	1,150	62.8	774	12.0	929	46.5	594
Knows source of condoms <sup>1</sup>								
Yes	17.2	2,163	65.8	1,536	15.4	2,549	49.5	1,707
No	11.3	1,956	58.7	1,218	10.2	783	32.0	325
Total	14.4	4,119	62.7	2,754	14.2	3,332	46.7	2,032

<sup>&</sup>lt;sup>1</sup> Friends, family members, and home are not considered sources for condoms.

Fourteen percent of young women and men had sex before they turned age 15, and 63 percent of women and 47 percent of young men had sex before age 18. Among women, there is some evidence of a trend towards postponing early sex, because only 12 percent of women aged 15-19 at the time of the survey said they had sex before 15, compared with 17 percent among women aged 20-24. Among men, the opposite pattern pertains, with 16 percent of those aged 15-19 reporting that they had sex before age 15, compared with only 11 percent of men aged 20-24.

<sup>&</sup>lt;sup>a</sup> Not calculated because respondents aged 15-17 have not reached age 18 and could still alter the results for the whole age group.

Percentage 70 61 60 50 50 40 30 20 16 12 10 0 Percentage age 18-19 Percentage age 15-19 who had sex who had sex before age 15 before age 18 □Women ■Men UHSBS 2004-05

Figure 7.1 Sex Before Age 15 and 18 among Youth

Regarding marital status, ever-married women aged 15-24 were more likely to initiate sexual activity before age 15 than those who have never married. For young men, the opposite is true, although the proportions are close. With regard to initiating sex before age 18, those who have ever married are much more likely to have had sex before 18 than those who have never married.

Urban-rural residence is not closely related to early sexual initiation. Age at first sex does vary by region, however. The percentage of young women aged 15-24 who had sex by age 15 ranges from 5 percent in Southwest and Northeast to 23 percent in Eastern region. Among young men, the percentage who had sex by age 15 varies from 7 percent in Northeast to 22 percent in Eastern region.

Wealth quintile shows little association with the proportion who had sex by age 15 or age 18. Early sexual initiation is slightly more likely among those who know of a source for condoms.

Education is closely related to age at first sex for young women. Among women 15-24 with no education, 20 percent had sex before age 15, compared with only 9 percent of young women with at least some secondary school. A similar pattern pertains to having sex before age 18. Education is only weakly associated with age at first sex for young men.

Orphans and vulnerable children (OVC) are likely to be at greater risk in various aspects of life, including early sexual initiation. To assess this risk, Table 7.6 shows the proportion of youth aged 15-17 who had sex before age 15 according to whether they are orphans or vulnerable children or neither. The data show that youth who are orphans or vulnerable children are slightly more likely to have sex by age 15 than other youth. Young women classified as OVC are 1.5 times more likely to initiate sex before age 15 than other young women, while young men who are OVC are 1.1 times as likely.

Table 7.6 Percentage of youth aged 15-17 who had sex by age 15 by OVC status, Uganda 2004-05 Women 15-17 Men 15-17 Percentage who Percentage who had sex before Number of had sex before Number of **OVC** status women 15-17 age 15 men 15-17 age 15 Orphan 14.6 325 18.0 369 Vulnerable (non-orphan) 2.1 28 21.8 27 OVC 18.3 396 13.6 353 Non-OVC 8.9 1,011 17.2 904 Ratio OVC/non-OVC 1.53 1.06 na na Total 15-17 1,364 17.5

OVC = orphans and vulnerable children, i.e., children aged 0-17 whose mother or father has died or who are living in a household in which a person aged 18-59 has been very sick for at least three months during the 12 months preceding the survey or in which a person aged 18-59 has died in the preceding 12 months. This definition differs slightly from the standard because it omits children whose parents have been very ill in the past 12 months but who do not live in the same household, since such questions were not included in the UHSBS. na = Not applicable

#### 7.7 **CONDOM USE AT FIRST SEX**

Another way to reduce risk of exposure of young people to HIV is early and consistent condom use. Condom use at first sex serves as an indicator of reduced risk of exposure at the beginning of sexual activity.

Among respondents aged 15-24 who ever had sex, 29 percent of young women and 33 percent of young men said they used a condom the first time they had sex (Table 7.7). Younger women are more likely to have used a condom at first sex. More than half of young women aged 15-17 used a condom at first sex compared with 17 percent of women aged 23-24. Among men, the relationship between age and condom use is less clear. It can be noted, however, that young men aged 15-17 were less likely than all other age groups to have used a condom at first sex. Never-married young women and men were more likely to have used a condom at first sex than those who have ever been married.

Urban youth are more likely to use condoms at first sex. Kampala is the region with highest use of condom at first sex (64 percent of young women and 57 percent of young men). The Southwest region has the lowest percentage of youth who used a condom at first sex, with only 7 percent of young women and 12 percent of young men reporting that they used a condom at first sex. Education is strongly associated with condom use at first sex. Women with some secondary education or higher were almost 10 times as likely as women with no education to use a condom at first sex. For men, those with some secondary education were more than twice as likely as those with no education to use a condom at first sex. Knowing a place to get condoms is strongly related to use of them at first sex. However, the relationship may be circular because those who do not know a source cannot obtain condoms.

		15-24 who nad sex	Men 15-24 who ever had sex			
Background characteristic	Percentage who used a condom at first sex	Number of women 15-24 who ever had sex	Percentage who used a condom at first sex	Number of men 15-24 who ever had sex		
-	mse sex	ever nad sex	mse sex	ever ridd sex		
Age	42.1	996	31.0	873		
15-19 15-17	42.1 50.9	996 403	26.0	673 418		
18-19	36.2	593	35.6	456		
20-24	21.8	1,807	34.0	1,073		
20-24	24.3	1,158	35.6	675		
23-24	17.4	649	31.1	398		
	.,.,	0.15	51.1	330		
Marital status	50.5	722	26.0	1 201		
Never married	58.5	733	36.9	1,391		
Ever married	18.6	2,070	22.0	556		
Residence						
Urban	57.9	500	46.5	350		
Rural	22.8	2,303	29.6	1,597		
Region						
Central	42.4	511	43.9	402		
Kampala	63.8	240	56.6	154		
East Central	42.3	478	38.4	295		
Eastern	25.4	243	22.3	235		
Northeast	17.9	211	25.8	124		
North Central	12.5	278	22.3	192		
West Nile	12.1	233	30.9	174		
Western	18.9	317	29.9	186		
Southwest	6.6	292	11.9	184		
Education						
No education	6.0	383	18.7	72		
Primary incomplete	18.9	1,359	23.1	877		
Primary complete	34.9	360	24.8	261		
Secondary+	58.5	697	48.3	734		
Knows source of condoms <sup>1</sup>						
Yes	40.4	1,649	36.9	1,696		
No	12.7	1,153	3.8	251		
Total 15-24	29.0	2,803	32.6	1,947		

#### 7.8 ABSTINENCE AND PREMARITAL SEX

The time between initiation of sexual activity and marriage can bring risk of exposure to HIV. Table 7.8 shows the percentage of never-married youth who have never had sex, the percentage who had sex in the 12 months preceding the survey, and among those, the percentage who used a condom at most recent sex.

Half of never-married men aged 15-24 have never had sex, compared with 64 percent of young women. The percentage of never-married youths who report that they have never had sex drops substantially from the 15-19 age group to the 20-24 age group.

		Never-n	narried wome	en 15-24		Never-married men 15-24				
Background characteristic	Percentage who never had sex	Percentage who had sex in past 12 months	Number of never- married women 15-24	who used a	Number of women 15- 24 who had sex in past 12 months	Percentage who never had sex	Percentage who had sex in past 12 months	Number of never- married men 15-24	Of those who had sex in the past 12 months, percentage who used a condom at last sex	Number o men 15-24 who had sex in past 12 months
Age										
15-19	71.3	19.5	1,669	57.1	325	59.6	23.4	2,008	50.0	470
20-24	33.2	45.8	380	48.7	174	24.5	47.7	768	59.0	366
Residence										
Urban	49.8	33.1	454	67.9	150	40.9	33.7	481	70.8	162
Rural	68.3	21.9	1,595	48.3	349	51.8	29.4	2,295	49.9	674
Region										
Central	53.9	30.4	406	62.4	123	45.6	31.4	540	68.6	170
Kampala	44.9	36.4	221	66.7	80	46.4	33.6	226	81.4	76
East Central	55.0	31.7	323	63.8	102	45.0	34.2	406	57.6	139
Eastern	55.0	25.9	164	57.5	42	32.4	50.3	272	47.0	137
Northeast	74.9	21.2	131	25.8	28	55.8	21.3	156	38.2	33
North Central	60.2	28.0	119	13.9	33	38.5	38.6	211	40.1	81
West Nile	84.8	10.8	192	46.0	21	56.6	25.2	275	50.4	69
Western	73.7	22.8	205	40.8	47	59.9	23.9	283	51.5	68
Southwest	85.6	7.6	287	44.4	22	66.2	15.6	408	21.1	63
Education										
No education	71.7	18.7	96	23.9	18	57.4	31.3	74	43.4	23
Primary incomplete	73.4	18.9	880	39.9	166	55.2	28.7	1,285	42.5	369
Primary complete	62.4	23.9	245	49.7	58	45.3	33.6	329	54.7	111
Secondary+	54.2	30.9	827	66.5	256	44.6	30.6	1,083	67.5	331
Knows source of condoms 1										
Yes	48.0	35.8	1,069	62.1	383	41.0	36.1	2,082	58.5	752
No	81.9	11.9	979	28.2	117	76.7	12.1	694	12.8	84
Total 15-24	64.2	24.4	2,049	54.2	499	49.9	30.1	2,776	53.9	836

Among never-married youths, 24 percent of women and 30 percent of men aged 15-24 had sex in the 12 months preceding the survey. The proportion of never-married young men and women who have been sexually active in the past 12 months doubles between the age groups 15-19 and 20-24. Premarital sexual activity is more common among youths in urban areas and among youths with higher levels of education.

More than half of young men and women (54 percent) who have had sex in the past year reported using a condom at last sex. As with premarital sex, condom use at last sex is higher among urban youth and those with higher levels of education.

#### 7.9 HIGHER-RISK SEX AND CONDOM USE AMONG YOUTH

The most common way HIV is transmitted in Uganda is through unprotected sex with an infected partner. Sex with a nonmarital, noncohabitating partner is considered higher-risk sex. Sex with a nonmarital partner carries greater risk of infection, especially when youths have a high number of such sexual partners. Each new partner brings new risk of infection. Use of a condom with a nonmarital, noncohabiting partner reduces risk of HIV infection from these partners.

Table 7.9 shows the proportion of women and men aged 15-24 who engaged in higher-risk sex in the past 12 months and those who used a condom at last higher-risk sex. A little more than half of young women and men report using a condom at last higher-risk sex. While the younger women within the 15-24 age group are more likely to have used a condom than the older women, the opposite is true of young men. The percentage of young men who engaged in higher-risk sex in the past 12 months and who used a condom at last higher-risk sex increased steadily from 44 percent among 15- to 17-year-olds to 62 percent among 23- to 24-year-olds.

Looking at condom use by never-married and ever-married youth shows a similar trend. Nevermarried women are more likely to have used a condom at last higher-risk sex than ever-married women, whereas never-married men are slightly less likely to have used a condom at last higher-risk sex than ever-married men. Both young women and young men in urban areas were more likely to use a condom at last higher-risk sex than youths in rural areas. Higher education and knowing a source for condoms are also associated with increased probability of having used a condom at higher-risk sex.

Table 7.9 Higher-risk sex and condom use at last higher-risk sex among youth in the past 12 months, Uganda 2004-05

		Wom	en 15-24			Mer	15-24	
	Among those sex in the more	e past 12	higher-risk :	ose who had sex in the past nonths:	Among those sex in the more	e past 12	higher-risk	ose who had sex in the past nonths:
Background characteristic	Percentage engaging in higher-risk sex in the past 12 months <sup>1</sup>	Number of women who had sex in the past 12 months	Percentage who report using a condom at last higher- risk sex <sup>1</sup>	Number of women who had higher- risk intercourse in past 12 months <sup>1</sup>	Percentage engaging in higher-risk sex in the past 12 months <sup>1</sup>	Number of women who had sex in the past 12 months	who report using a	Number of men who had higher-risk intercourse in past 12 months <sup>1</sup>
Age								
15-19 15-17 18-19 20-24 20-22	45.4 66.7 32.0 16.2 16.9	816 316 500 1,639 1,049	55.6 56.5 54.5 49.1 50.3	371 211 160 266 177	92.3 96.1 89.7 63.0 71.2	528 214 314 840 514	50.5 43.6 55.5 59.4 58.1	487 206 281 529 366
23-24	15.0	589	46.7	88	49.9	325	62.3	162
Marital status Never married Ever married	94.8 8.3	499 1,956	56.8 41.7	473 163	98.3 36.5	836 532	54.7 56.9	822 194
Residence								
Urban Rural	42.9 22.6	405 2,050	66.9 47.7	174 462	89.2 71.3	225 1,143	70.5 51.3	201 815
Region								
Central Kampala East Central	40.1 50.2 32.1	435 190 425	54.6 64.3 63.3	174 95 137	84.4 88.1 77.8	273 107 206	69.2 79.3 60.1	231 94 160
Eastern Northeast North Central	27.8 14.2 17.1	208 191 251	53.9 31.5 17.5	58 27 43	85.8 48.0 65.9	186 86 143	44.3 44.6 41.5	160 41 94
West Nile Western Southwest	14.6 16.6 9.1	197 305 254	45.0 47.4 42.1	29 51 23	71.9 60.5 60.7	121 138 106	50.0 50.7 22.6	87 84 65
Education								
No education Primary incomplete Primary complete Secondary+	8.7 20.9 23.6 49.0	354 1,223 312 562	35.8 38.6 50.4 68.7	31 256 74 276	40.7 71.6 72.3 83.3	61 656 188 460	43.0 43.9 52.5 70.8	25 470 136 384
Knows source of condoms	, <sup>2</sup>							
Yes No	34.5 14.0	1,427 1,028	59.9 28.9	493 143	76.6 57.7	1,200 168	59.5 13.1	919 97
Wealth quintile								
Lowest Second Middle	21.9 18.8 18.9	351 453 455	35.9 43.9 40.3	77 85 86	61.4 68.4 71.7	164 261 247	38.5 48.5 48.2	101 178 177
Fourth Highest	23.6 39.7	535 661	51.2 65.8	126 263	74.1 85.9	319 377	47.4 73.3	236 324
Total 15-24	25.9	2,455	52.9	636	74.3	1,368	55.1	1,016

<sup>&</sup>lt;sup>1</sup> Sexual intercourse with a person who is neither married to nor living with the respondent

<sup>&</sup>lt;sup>2</sup> Friends, family members, and home are not considered sources for condoms.

# ABSTINENCE, BEING FAITHFUL, AND CONDOM USE AMONG YOUTH

The acronym 'ABC' represents a prominent message to youth on behaviours to follow to prevent HIV infection: abstinence, be faithful, use condoms. Figure 7.2 presents data on the effectiveness of the ABC strategy. Among youth aged 15-24, 32 percent of young women and 42 percent of young men have been abstinent up to the time of the survey. As expected, the percentage of young women and men who have not had sex drops significantly between the 15-19 age group and the 20-24 age group.

Among all young women, 9 percent have had sex but had not in the past year, the majority (57 percent) were faithful to one sexual partner in the past year, and 3 percent had more than one partner. Among young men, 17 percent have had sex but not within the past year, 29 percent were faithful to one partner in the past year, and 12 percent had more than one partner. Among youth who were sexually active in the 12 months preceding the survey, most did not use a condom at last sex. A higher proportion of young men used a condom at last sex than young women.

Percent 100 80 ■More than one partner, did not use condom last time More than one partner, used condom last time ■Only one partner, 60 did not use condom last time Only one partner, used condom last time ■ Had sex, but not 40 in past 12 months ■Never had sex 20 15-19 20-24 15-24 15-19 20-24 15-24 MEN **WOMEN** 

Figure 7.2 Abstinence, Being Faithful, and Using Condoms (ABC) among Young Women and Men

Note: Data are for partners in the 12 months preceding the survey; condom use refers to most recent sexual encounter.

UHSBS 2004-05

# AGE DIFFERENCES BETWEEN SEXUAL PARTNERS

Examining age differences between young women and their partners is important because young women may have less power to negotiate sex and condom use with older men. Older men are also more likely to be infected with HIV than younger men (WHO, 2004; Chapter 8). To assess age differences between sexual partners, women aged 15-19 who had sex in the 12 months preceding the survey were asked the ages of all partners in the past 12 months. If they did not know the ages of their partners, they were asked if their partners were older or younger than they, and if older, whether they were 10 or more years older than they were.

As shown in Table 7.10, 10 percent of women aged 15-19 who had higher-risk sex in the 12 months preceding the survey had sex with a partner who was 10 or more years older. Age groups 15-17 and 18-19 have roughly the same proportion of young women who had sex with a nonmarital, noncohabitating partner more than 10 years older. Marital status is important in age mixing in sexual relationships, however. Ever-married women were more than three times more likely than nevermarried women to have had higher-risk sex with a partner who was more than 10 years older.

Urban and rural women aged 15-19 were almost equally likely to have had higher-risk sex with a partner more than 10 years older (10 and 9 percent, respectively).

Table 7.10 Age-mixing in higher-risk sexual relationships among young women 15-19, Uganda 2004-05

Background characteristic	Among women 15-19 who had higher-risk sex in the past 12 months, percentage who had sex with a man 10 or more years older	Number of women 15-19 having higher- risk sex in the past 12 months
Age		_
15-17	9.4	211
18-19	9.9	160
Marital status		
Never married	7.3	318
Ever married	23.9	53
Residence		
Urban	10.3	92
Rural	9.4	278
Education		
No education	*	10
Primary incomplete	13.8	166
Primary complete	(5.9)	42
Secondary+	6.1	152
Total 15-19	9.6	371

Note: Numbers in parentheses are based on 25-49 unweighted cases; an asterisk denotes a figure based on fewer than 25 unweighted cases that has been suppressed.

Education also shows no strong relationship with age mixing in sexual relationships. Young women with incomplete primary education were most likely to have had higher-risk sex with a partner more than 10 years older than themselves (14 percent), while those with complete primary education and secondary education or higher were least likely (6 percent).

# 7.12 ALCOHOL USE DURING SEX AMONG YOUTH

Having sex under the influence of alcohol can impair judgment and increase risky sexual behaviour. Respondents who had sex in the 12 months preceding the survey were asked for each partner if they or their partner drank alcohol the last time they had sex. Fourteen percent of women and 5 percent of men aged 15-24 reported that they or their partners drank alcohol the last time they had sex with any partner in the 12 months preceding the survey. Results are shown in Table 7.11.

	Women	Men 15-24			
Background characteristic	Percentage who had sex in past 12 months when respondent and/or partner was drinking	Number of women	Percentage who had sex in past 12 months when respondent and/or partner was drinking	Number of men	
Age					
15-19	6.0	2,186	1.9	2,070	
15-17	3.0	1,364	0.9	1,300	
18-19	11.1	821	3.6	770	
20-24	23.2	1,933	11.1	1,262	
20-22	21.0	1,267	9.2	823	
23-24	27.2	666	14.6	438	
Marital status					
Never married	2.5	2,049	2.4	2,776	
Ever had sex	6.9	733	4.8	1,391	
Never had sex	0.0	1,316	0.0	1,385	
Currently married	26.0	1,799	18.8	449	
Formerly married	22.6	271	25.7	107	
Residence					
Urban	9.0	725	4.5	546	
Rural	15.1	3,393	5.5	2,785	
Region					
Central	7.3	730	2.4	649	
Kampala	7.9	339	5.5	259	
East Central	11.3	655	3.3	477	
Eastern	17.6	333	9.3	323	
Northeast	37.1	309	14.2	211	
North Central	25.6	350	10.3	273	
West Nile	9.0	396	4.9	329	
Western	15.3	468	3.9	355	
Southwest	10.2	538	3.3	454	
Education					
No education	30.1	451	12.6	115	
Primary incomplete	15.5	2,004	5.3	1,586	
Primary complete	12.9	513	5.4	410	
Secondary+	5.7	1,146	4.7	1,217	
Wealth quintile					
Lowest	19.9	612	7.7	432	
Second	14.5	802	5.3	669	
Middle	19.1	700	4.9	592	
Fourth	12.7	855	4.5	711	
Highest	8.6	1,150	5.3	929	
Total 15-24	14.1	4,119	5.4	3,332	

Having sex after drinking was more common among youth in the 20-24 age group than the 15-19 age group, though it is important to remember that more youth in the older age group have had sex in the past 12 months. These data do not necessarily mean that a higher proportion of sexual acts involve alcohol at the older ages. Young women and men who have ever been married are more likely to drink alcohol in association with sex than sexually active youth who have never been married.

The practice of having sex in relation to drinking alcohol is more common in rural areas than in urban areas. Northeast and North Central regions had the highest proportion of young women and men who reported that they or their partners drank alcohol at last sex. Youth with no education were much more likely than those with any education to combine sexual activity with drinking alcohol. Young men and women with incomplete primary education were about half as likely to do so as youth with no education. Lower wealth is also associated with a higher probability of having sex while drinking.

# FORCED SEX AMONG YOUTH

Young women and young men aged 15-24 who have ever had sex were asked about use of force the first time they had sex. The question asked if they were forced to have sex, if both partners agreed, or if they forced their partner to have sex. It is important to note that the definition of 'force' is subjective and may have been interpreted differently by different respondents.

Nine percent of all women aged 15-24 reported that they were forced the first time they had sex (Table 7.12). The vast majority either have not had sex or reported no force at first sex. Young men were much less likely than women to have been forced the first time they had sex (1 percent), but slightly more likely to have forced their partner at first sex (1 percent).

The proportion of young women and young men who were forced the first time they had sex increases with age. It is important to remember, however, that the proportion of youth who have had sex also increases with age. Table 7.12 does not show the proportion of first sexual experiences that were forced. Ever-married young women and men are more likely to have been forced the first time they had sex than those who have never been married. The proportion of youth who live in rural areas who were forced at first sex is slightly higher than those who live in urban areas.

Table 7.12												
Use of force at fi	irst sex aı	mong yo	uth (percent	distribution	on), Uga	nda 2004-	05					
	Women 15-24								Men 1	5-24		
			Respondent	Never		Number		-	Respondent	Never		Number
Background		Both	forced	had sex/		of		Both	forced	had sex/		of
characteristic	Forced	agreed	partner	missing	Total	women	Forced	agreed	partner	missing	Total	men
Age												
15-19	6.9	37.7	0.1	55.2	100.0	2,186	1.3	39.0	1.1	58.5	100.0	2,070
15-17	5.3	23.3	0.2	71.2	100.0	1,364	1.0	29.5	1.0	68.6	100.0	1,300
18-19	9.6	61.7	0.1	28.6	100.0	821	1.9	55.1	1.4	41.6	100.0	770
20-24	11.8	78.3	0.2	9.8	100.0	1,933	1.0	79.8	2.0	17.2	100.0	1,262
20-22	11.3	77.7	0.2	10.8	100.0	1,267	1.2	77.8	1.6	19.3	100.0	823
23-24	12.7	79.3	0.1	7.9	100.0	666	0.6	83.5	2.6	13.3	100.0	438
Marital status												
Never married	5.8	29.5	0.1	64.6	100.0	2,049	1.1	47.1	1.1	50.7	100.0	2,776
Ever married	12.5	83.7	0.3	3.5	100.0	2,070	1.8	91.2	3.0	4.0	100.0	556
Residence												
Urban	8.2	59.1	0.3	32.5	100.0	725	1.2	60.3	1.4	37.1	100.0	546
Rural	9.4	56.2	0.1	34.2	100.0	3,393	1.2	53.3	1.5	44.0	100.0	2,785
Total 15-24	9.2	56.8	0.2	33.9	100.0	4,119	1.2	54.4	1.4	42.9	100.0	3,332

#### **VOLUNTARY HIV COUNSELLING AND TESTING AMONG YOUTH** 7.14

Awareness of HIV status can motivate individuals to further protect themselves against infection or to protect their partners from acquiring the disease. It is particularly important to measure testing behaviour among youth. Not only are they especially vulnerable to infection, but they also may experience barriers to accessing testing services because of their young age.

Table 7.13 shows that women aged 15-24 are slightly more likely than men of the same age to have been tested for HIV. Fourteen percent of young women and 11 percent of young men who had sex in the 12 months preceding the survey were tested in the past 12 months and know their results. Young women and men in the 20-24 age group were more likely to have been tested for HIV than those in the 15-19 age group. While 15 percent of women and 13 percent of men aged 20-24 have been tested, only 13 percent of women and 7 percent of men aged 15-19 have been so.

Differences in testing by marital status are very small. Urban youth are more likely to be tested than rural youth. Testing behaviour is more common among youth with higher education. Four percent women and none of the men aged 15-24 with no education have been tested for HIV compared with 25 percent of young women and 19 percent of young men with at least some secondary schooling.

	Among women a sex in the past		Among men 15-2 in the past 1	
		Number of		Number of
	Percentage who	respondents	Percentage who	respondents
	were tested and	aged 15-24	were tested and	aged 15-24
	received results	who had sex	received results	who had sex
Background	in the past	in the past	in the past	in the past
characteristic	12 months	12 months	12 months	12 months
Age				
15-19	12.6	816	7.0	528
15-17	7.6	316	6.0	214
18-19	15.8	500	7.6	314
20-24	15.0	1,639	13.2	840
20-22	14.5	1,049	10.8	514
23-24	15.9	589	16.9	325
Marital status				
Never married	15.4	499	10.2	836
Ever married	13.9	1,956	11.7	532
Residence				
Urban	33.4	405	18.4	225
Rural	10.4	2,050	9.3	1,143
Education				
No education	4.2	354	0.0	61
Primary incomplete	10.7	1,223	6.5	656
Primary complete	19.0	312	10.2	188
Secondary+	25.4	562	18.5	460
Total 15-24	14.2	2,455	10.8	1,368

#### 8.1 **KEY FINDINGS**

- Six percent of Ugandan adults aged 15-49 are infected with HIV and prevalence among women is higher (8 percent) than among men (5 percent).
- Regions with the highest HIV prevalence are Central region and Kampala (9 percent) and North Central region (8 percent).
- HIV prevalence increases with wealth.
- Five percent of cohabiting couples in Uganda are discordant, i.e., one partner is HIV positive and the other is HIV negative.
- Eighty-six percent of women and men aged 15-49 agreed to provide blood samples for HIV testing. Response rates were 89 percent among eligible women and 83 percent among eligible

#### 8.2 INTRODUCTION

Understanding the distribution of HIV infection within a population and analysis of the social, biological, and behavioural factors associated with HIV infection offer new insights about the HIV epidemic in Uganda that will help shape future interventions.

In Uganda, national HIV prevalence estimates have been derived primarily from sentinel surveillance among pregnant women. The HIV sentinel surveillance system was established in 1989 to provide information on the magnitude and trends of HIV infection in the country to inform programme strategic planning, monitoring, and evaluation. The system was initially set up in six sites mainly located in urban areas. The number of sites was gradually expanded to the current 25 sentinel sites. Twenty-four of the sites are based in antenatal clinics (ANC) while one site is located in an STI referral clinic in Kampala. These sentinel sites are widely distributed in the country, taking into consideration rural-urban representation. In 2005, antenatal HIV sentinel surveillance was conducted in all 25 sites.

There are a number of recognised limitations in estimating HIV rates in the general adult populations from data derived exclusively from pregnant women attending selected sentinel clinics. Perhaps the most important limitation is that ANC data omit men altogether. Although the rate of HIV infection in pregnant women has been shown to be a reasonable proxy for the level in the combined male and female adult population in a number of settings, it has also been shown to be very different in other settings, which makes it risky to make assumptions about the male infection rate. The system also does not capture any information on HIV prevalence in nonpregnant women, nor in women who either do not attend clinics for pregnancy care or who receive ANC at facilities not represented in the surveillance system. Pregnant women are also more at risk for HIV infection than women who may be avoiding both HIV and pregnancy through the use of condoms or women who are less sexually active and therefore less likely to become pregnant or expose themselves to HIV. There may also be biases in the ANC surveillance data because HIV infection reduces fertility and because knowledge of HIV status may influence fertility choice. Moreover, ANC data do not include socioeconomic characteristics of those tested, which are useful in exploring the nature of the epidemic. Finally, although the ANC system covers

a minimum of 250 pregnant women in each site, which results in a sizeable overall sample, the women are identified from a small number (25) of sites, which limits the representativeness of the results. On the other hand, results from the UHSBS are pulled from the 417 sample points throughout the country.

Thus, although the information from the ANC surveillance system has been very useful for monitoring trends of HIV in Uganda, the inclusion of HIV testing in the 2004-05 UHSBS offers the opportunity to better understand the magnitude and pattern of the infection in the general reproductive-age population in Uganda. The UHSBS results are in turn expected to improve the calibration of annual sentinel surveillance data, so that trends in HIV infection can be more accurately measured in the intervals between household surveys.

# 8.3 COVERAGE OF HIV TESTING

Tables 8.1 and 8.2 present coverage rates for HIV testing for eligible women, men and both sexes combined. The response rates are presented by urban-rural residence and by region. For these tables, respondents are divided into several categories, namely:

- 1. Those who were interviewed, consented to the blood draw, and were tested with a valid HIV result
- 2. Those who were not interviewed individually, but were tested (including those who may have been interviewed but the questionnaire was lost)
- 3. Those who were interviewed and refused the testing when asked for informed consent
- 4. Those who were absent, including those who were interviewed but absent for testing and those who were absent for the interview
- 5. Those for whom there is no HIV test result for some other reason, such as a mismatch between the questionnaires and the blood samples or a technical problem in taking or testing the blood

As shown in Table 8.1, 86 percent of eligible women and men aged 15-49 agreed to provide blood samples for HIV testing. Response rates were 89 percent among eligible women and 83 percent among eligible men. Five percent of eligible respondents refused the HIV testing, while 6 percent were absent. Two percent of eligible respondents fall in the 'other' category, meaning that the HIV test result is either missing or not able to be matched to the respondent, or that the respondent consented to being tested but for some technical reason, was not able to give a blood sample (inadequate supplies or sample damage) or the sample could not be tested.

Response rates are higher for women than men, with men more likely to be absent (9 percent) than women (4 percent). Coverage rates for HIV testing are higher in rural than urban areas. Eighty-nine percent of eligible respondents in rural areas were tested, compared with 76 percent of those in urban areas. Both absence and refusals were lower in rural than urban areas. By region, coverage is highest in East Central region (93 percent) and lowest in Kampala (72 percent).

Table 8.1 Coverage of HIV testing among eligible women and men aged 15-49 by residence and region, Uganda 2004-05 (unweighted percent distribution)

	Rosi	dence					Region					
	- Kesi	derice		-	East		Region	North	West		South-	
Testing status	Urban	Rural	Central	Kampala	Central	Eastern	Northeast	Central	Nile	Western	west	Total
					WO	MEN						
Tested	82.5	90.8	90.1	78.1	94.9	90.2	91.9	85.1	91.0	92.2	89.5	89.2
Interviewed	82.2	90.3	90.1	78.0	94.7	89.7	91.1	84.2	90.5	92.0	88.8	88.8
Not interviewed	0.2	0.5	0.0	0.1	0.2	0.5	0.8	0.9	0.5	0.2	0.6	0.4
Refused	8.1	4.1	5.7	10.4	2.0	5.9	3.6	6.2	1.2	4.7	6.0	4.9
Absent for testing	7.1	3.2	2.6	8.5	2.7	2.7	3.2	6.8	4.7	1.6	1.8	4.0
Interviewed	0.2	0.4	0.5	0.2	0.4	0.4	0.9	0.7	0.3	0.0	0.1	0.4
Not interviewed	6.9	2.8	2.1	8.3	2.2	2.3	2.3	6.1	4.4	1.6	1.7	3.6
Missing/tech.problem	2.3	1.8	1.6	3.0	0.4	1.2	1.2	1.9	3.1	1.6	2.8	1.9
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number	2,021	8,540	972	1,241	1,203	950	1,297	1,126	1,560	1,093	1,119	10,561
					MI	EN						
Tested	69.5	86.5	84.4	65.2	90.0	85.5	85.3	79.0	87.0	88.7	84.9	83.2
Interviewed	69.4	86.0	83.9	65.2	89.5	85.4	84.4	78.5	86.6	88.5	84.2	82.8
Not interviewed	0.1	0.5	0.4	0.0	0.5	0.1	0.9	0.5	0.4	0.2	0.6	0.4
Refused	9.6	4.5	7.4	10.5	2.5	5.7	4.6	9.1	1.3	3.9	5.0	5.5
Absent for testing	16.7	6.9	6.1	19.6	6.2	7.2	8.8	10.2	8.1	5.4	5.8	8.8
Interviewed	0.4	0.7	0.7	0.2	0.5	0.9	1.5	0.9	0.5	0.4	0.2	0.6
Not interviewed	16.3	6.2	5.5	19.4	5.7	6.3	7.4	9.3	7.6	4.9	5.6	8.1
Missing/tech.problem	4.3	2.2	2.1	4.7	1.3	1.6	1.3	1.7	3.7	2.1	4.3	2.6
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number	1,763	7,270	915	1,087	952	899	1,019	989	1,275	971	926	9,033
					TO	TAL						
Tested	76.4	88.8	87.3	72.1	92.8	87.9	89.0	82.2	89.2	90.6	87.4	86.4
Interviewed	76.3	88.3	87.1	72.0	92.4	87.6	88.1	81.5	88.7	90.4	86.7	86.0
Not interviewed	0.2	0.5	0.2	0.0	0.4	0.3	0.9	0.7	0.5	0.2	0.6	0.4
Refused	8.8	4.3	6.5	10.4	2.2	5.8	4.1	7.6	1.2	4.3	5.5	5.2
Absent for testing	11.6	4.9	4.3	13.7	4.2	4.9	5.7	8.4	6.2	3.3	3.6	6.2
Interviewed	0.3	0.6	0.6	0.2	0.5	0.6	1.2	8.0	0.4	0.2	0.1	0.5
Not interviewed	11.3	4.3	3.7	13.5	3.8	4.3	4.5	7.6	5.9	3.1	3.5	5.7
Missing/tech.problem	3.2	2.0	1.9	3.8	0.8	1.4	1.3	1.8	3.4	1.8	3.5	2.2
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number	3,784	15,810	1,887	2,328	2,155	1,849	2,316	2,115	2,835	2,064	2,045	19,594

Table 8.2 shows coverage of HIV testing by background characteristics. The response rates are consistent across age groups, showing a slight tendency to rise with age. Coverage is slightly lower than average among women with some secondary education and among men with no education and those with some secondary education. Similarly both women and men in the highest quintile of the wealth index were the least likely to be tested, both because of higher levels of refusal and absence.

In almost every category of background characteristics, women were more likely to be tested than men. It is important to note, however, that the main reason for this is the higher percentage of eligible women who were interviewed in the survey. The rate of refusal for HIV testing is only marginally higher among men than among women (6 and 5 percent, respectively). As noted in Chapter 1, it is more difficult to find men at home to be interviewed.

Table 8.2

Coverage of HIV testing among eligible women and men aged 15-49, by background characteristics, Uganda 2004-05 (unweighted)

	Tes	ted	Refu	used	Ab	sent	Missing/t prob			
		Not		Not		Not		Not		
Background	Inter-	inter-	Inter-	inter-	Inter-	inter-	Inter-	inter-		
characteristic	viewed	viewed	viewed	viewed	viewed	viewed	viewed	viewed	Total	Number
				WOM	EN					
Age										
15-19	86.8	0.6	4.0	0.9	0.6	4.9	1.1	1.3	100.0	2,356
20-24	86.8	0.3	5.2	8.0	0.4	4.0	1.3	1.2	100.0	2,076
25-29	89.5	0.4	3.9	0.8	0.3	3.6	0.9	0.7	100.0	1,913
30-34	90.8	0.3	4.7	0.4	0.4	1.9	0.7	0.7	100.0	1,520
35-39	89.3	0.7	3.8	0.4	0.5	3.8	1.1	0.4	100.0	1,133
40-44	90.8	0.4	3.8	0.8	0.1	2.2	1.6	0.3	100.0	898
45-49	91.7	0.3	2.9	0.5	0.3	2.7	8.0	0.9	100.0	665
Education	00 =		0.6	0.6	0 =				1000	0.600
No education	89.7	1.1	3.6	0.6	0.5	2.5	1.3	0.7	100.0	2,623
Primary incomplete	90.3	0.3	3.6	0.8	0.4	3.2	0.9	0.7	100.0	4,721
Primary complete	90.6	0.3	4.0	0.4	0.0	3.1	0.8	0.8	100.0	1,092
Secondary+	83.5	0.1	6.5	0.7	0.4	5.9	1.3	1.5	100.0	2,101
Wealth quintile	00.7	1.0	2.5	0.6	0.7	2.4	1.2	0.0	100.0	1.007
Lowest	89.7	1.0	2.5	0.6	0.7	3.4	1.3	0.9	100.0	1,997
Second Middle	90.4	0.3	4.0	0.6	0.5	3.0	0.8	0.4	100.0	2,143
Fourth	90.9	0.4 0.5	3.4	0.7	0.2 0.3	3.0 2.5	0.9	0.5	100.0 100.0	1,829
	90.4	0.5	3.8	0.5	0.3	5.3	1.1	0.8	100.0	1,874
Highest	84.3		6.4	0.9	0.3		1.1	1.5	100.0	2,718
Total 15-49	88.8	0.4	4.2	0.7	0.4	3.6	1.1	0.9	100.0	10,561
Total 15-59	88.9	0.4	4.2	0.7	0.4	3.5	1.1	0.9	100.0	11,454
				MEN	1					
Age										
15-19	80.9	0.5	3.8	1.7	0.9	8.9	1.1	2.3	100.0	2,354
20-24	80.1	0.7	4.9	8.0	0.8	9.8	0.8	2.1	100.0	1,456
25-29	81.3	0.2	5.6	0.9	0.4	9.0	1.3	1.2	100.0	1,385
30-34	83.9	0.3	3.7	1.2	0.5	7.9	0.7	1.8	100.0	1,361
35-39	84.9	0.5	3.9	0.8	0.3	7.2	1.1	1.4	100.0	1,017
40-44	87.4	0.2	4.1	0.9	0.5	5.1	0.8	1.0	100.0	863
45-49	87.1	0.3	4.5	0.7	0.5	6.0	0.3	0.5	100.0	597
Education	00.0				0.0				1000	0.1-
No education	80.0	2.0	4.2	2.5	2.2	6.6	1.1	1.5	100.0	815
Primary incomplete	85.5	0.4	3.7	0.8	0.6	6.8	8.0	1.3	100.0	4,010
Primary complete	83.4	0.0	4.6	1.4	0.4	7.6	0.9	1.7	100.0	1,284
Secondary+	79.6	0.2	5.2	1.0	0.3	10.6	1.0	2.1	100.0	2,907
Wealth quintile	04.6	0.0	2.6	1.4	0.0	7.1	1.1	1.0	100.0	1.500
Lowest	84.6	0.8	2.6	1.4	0.9	7.1	1.1	1.6	100.0	1,596
Second	86.5	0.5	3.5	0.8	0.6	6.2	0.7	1.2	100.0	1,848
Middle	86.8	0.5	3.8	0.8	0.6	5.7	0.8	1.0	100.0	1,551
Fourth	86.5	0.2	4.0 6.7	1.0	0.9	5.2	1.2	0.9	100.0	1,625
Highest	73.5	0.2	6.7	1.5	0.3	14.0	8.0	3.0	100.0	2,413
Total 15-49	82.8	0.4	4.4	1.1	0.6	8.1	0.9	1.7	100.0	9,033
Total 15-59	83.4	0.4	4.3	1.1	0.6	7.8	0.9	1.6	100.0	9,905

# 8.4 **HIV PREVALENCE BY AGE AND SEX**

Results from the 2004-05 UHSBS indicate that just over 6 percent of Ugandan adults are infected with HIV. Table 8.3 shows that HIV prevalence among women is higher than among men (8 and 5 percent, respectively).

Age- and sex-specific prevalence of HIV shows that prevalence for both women and men increases with age until it reaches a peak, which for women is attained at ages 30-34 (12 percent) and for men at

Table 8.3							
HIV prevalen	ce by age, Ug	ganda 200	4-05				
	Wom	nen	Me	n	Total		
Age	Percentage HIV positive	Number tested	Percentage HIV positive	Number tested	Percentage HIV positive	Number tested	
15-19	2.6	2,062	0.3	1,932	1.5	3,994	
20-24	6.3	1,803	2.4	1,184	4.7	2,987	
25-29	8.7	1,679	5.9	1,123	7.6	2,802	
30-34	12.1	1,374	8.1	1,139	10.3	2,513	
35-39	9.9	1,029	9.2	868	9.6	1,897	
40-44	8.4	823	9.3	745	8.8	1,568	
45-49	8.2	621	6.9	524	7.6	1,145	
50-54	5.4	513	6.9	452	6.1	965	
55-59	4.9	322	5.8	332	5.4	654	
Total 15-49	7.5	9,391	5.0	7,515	6.4	16,906	
Total 15-59	7.3	10,227	5.2	8,298	6.3	18,525	

ages 35-44 (9 percent). Women are more highly affected at younger ages compared with men. Prevalence for women is generally higher than for men at ages 15-49 (Figure 8.1), though at ages 40-44, the male rate is marginally higher than the female rate. At ages 50-59, the pattern reverses and prevalence is slightly higher among men than women.

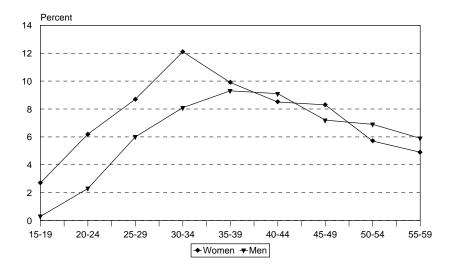


Figure 8.1 HIV Prevalence by Sex and Age

UHSBS 2004-05

<sup>&</sup>lt;sup>1</sup> This is somewhat lower than the rate of 7.1 percent positive for women and men aged 15-49 that was included in the UHSBS preliminary report. Some of the difference reflects changes that occurred during external quality control.

While the monitoring of the magnitude and trends of HIV prevalence in Uganda is based on the corroboration of data from different sources, the main source of the data has largely been the antenatal clinic (ANC) HIV sentinel surveillance system. Since the late 1980s, this ANC sentinel surveillance system has provided useful information on the annual trends of site specific HIV sero-prevalence. In line with this, a special round of ANC sentinel HIV surveillance was conducted in the first quarter of 2005 involving 24 sentinel sites. The results of this survey indicate that amongst the sentinel sites located in the major urban areas (cities and municipalities), site-specific antenatal HIV sero-prevalence ranged from 5.4 to 12.5 percent, and the median was around 7.2 percent. Amongst sites located in the semi-urban and rural areas, the antenatal HIV sero-prevalence ranged from 1.3 to 7.9 percent, with a median of about 5 percent. When comparisons were made, the results seem to suggest that the regional distribution of the magnitude of antenatal HIV sero-prevalence from the sentinel surveillance system is similar to that observed in the population-based UHSBS.

# 8.5 HIV Prevalence by Other Background Characteristics

As Table 8.4 shows, urban residents have a significantly higher risk of HIV infection (10 percent) than rural residents (6 percent). This is true for both sexes, though the urban-rural difference is much stronger for women than for men. Prevalence among urban women is 13 percent compared with 7 percent for rural women, and prevalence among urban men is 7 percent compared with 5 percent for rural men.

	Women 1	15-49	Men 15	5-49	Tota	ıl
Background characteristic	Percentage HIV positive	Number tested	Percentage HIV positive	Number tested	Percentage HIV positive	Number tested
Residence					•	
Urban	12.8	1,435	6.7	1,096	10.1	2,531
Rural	6.5	7,956	4.7	6,419	5.7	14,375
Region						
Central	10.2	1,565	6.6	1,357	8.5	2,921
Kampala	11.8	634	4.5	515	8.5	1,149
East Central	7.5	1,467	5.2	1,079	6.5	2,546
Eastern	6.2	813	4.4	724	5.3	1,538
Northeast	3.6	779	3.2	571	3.5	1,350
North Central	9.0	918	7.1	743	8.2	1,661
West Nile	2.7	906	1.9	690	2.3	1,597
Western	7.8	1,076	5.7	884	6.9	1,961
Southwest	7.1	1,232	4.4	952	5.9	2,183
Education		,				,
Education No education	5.8	2,129	7.5	624	6.2	2,753
	7.7	4,355	7.5 4.5	3,515	6.3	7,870
Primary incomplete Primary complete	9.8	1,064	6.5	1,058	8.2	2,122
Secondary+	7.6	1,826	4.4	2,310	5.8	4,136
•	7.0	1,020	4.4	2,310	5.0	4,130
Employment						
Currently working	8.4	5,758	6.1	5,195	7.3	10,953
Not working	6.1	3,560	2.5	2,238	4.7	5,798
Wealth quintile						
Lowest	4.8	1,532	4.0	1,147	4.4	2,679
Second	6.6	1,911	4.2	1,541	5.5	3,453
Middle	6.7	1,760	5.1	1,418	6.0	3,177
Fourth	7.0	1,895	5.9	1,552	6.5	3,446
Highest	11.0	2,294	5.5	1,857	8.6	4,151
Ethnicity						
Baganda	10.1	1,672	5.8	1,304	8.2	2,976
Banyankore	7.6	966	5.9	776	6.9	1,742
Iteso	7.0 5.1	607	4.7	495	4.9	1,101
Lugbara/Madi	3.2	742	2.2	562	2.8	1,304
Basoga	5.6	893	5.6	685	5.6	1,507
Langi	11.3	478	7.3	432	9.4	910
Bakiga	8.5	634	4.1	538	6.5	1,172
Karimojong	2.1	284	1.1	188	1.7	472
Acholi	7.1	468	6.7	343	6.9	810
Bagisu/Sabiny	7.5	426	3.5	450	5.4	876
Alur/Jopadhola	8.0	484	4.3	414	6.3	899
Banyara	7.4	304	6.8	247	7.1	551
Batoro	16.4	230	12.8	198	14.8	428
All others	6.5	1,156	3.2	835	5.1	1,992
Religion		,				,
0	7.1	2 022	E 4	2 1 4 5	6.2	7.063
Catholic	7.1	3,922	5.4	3,145	6.3	7,067
Anglican/Protestant	8.4	3,178	5.5	2,754	7.1	5,933
Other Christian Muslim	7.4	820	4.5	507	6.3	1,327
Muslim Other	6.5	1,294	3.0	974 76	5.0	2,268
	7.8	103	2.4	76	5.5	180
Total 15-49	7.5	9,391	5.0	7,515	6.4	16,906
Total 15-59	7.3	10,227	5.2	8,298	6.3	18,525

The HIV epidemic shows regional variations (Figure 8.2). Central, Kampala, and North Central regions all have rates of infection above 8 percent. Regions with low HIV prevalence are West Nile (2 percent) and Northeast (4 percent). In all regions, women have a higher prevalence of HIV infection than men.

HIV prevalence shows an inconsistent relationship with the level of education. It is identical for those with no education and those with incomplete primary education, then it rises among those who completed primary only and then falls among those with at least some secondary education (Table 8.4). Moreover, the pattern for women and men differs. For men, prevalence is highest among those with no education, while women with no education are the least likely to be infected.

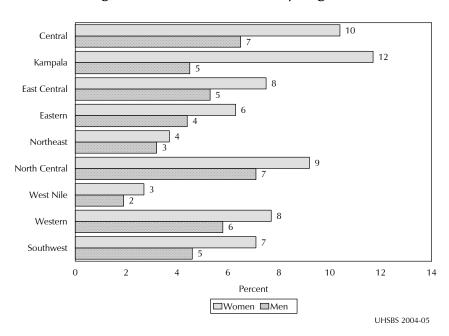


Figure 8.2 HIV Prevalence by Region

HIV prevalence is higher among those who are working (7 percent) than those who are not (5 percent). This is true for women and men. The data also show a gradual increase in HIV infection with wealth quintile (Figure 8.3). The rates rise from 4 percent among those in the lowest quintile to 9 percent among the wealthiest quintile. The increase occurs for both sexes, although among men, the infection rate falls slightly among those in the highest quintile.

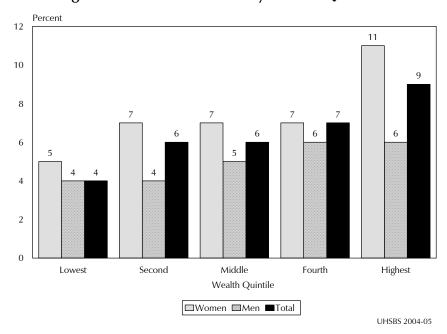


Figure 8.3 HIV Prevalence by Wealth Quintile

There are large differentials in HIV infection by ethnic group. Survey data indicate that the Batoro are the most affected by the HIV epidemic, with 15 percent of adults infected. Rates are also high among the Langi (9 percent) and the Baganda (8 percent). Those with relatively low infection levels are the Karimojong (2 percent) and the Lugbara/Madi (3 percent). Differences in HIV infection by religion are minimal, with only slightly lower rates among Muslims than Christians.

# 8.6 HIV Prevalence by Sociodemographic Characteristics

HIV prevalence is related to marital status. Table 8.5 and Figure 8.4 show that those who are widowed are by far the most likely to be HIV infected. Almost one-third of women and men who have been widowed are HIV positive, compared with around 6 percent of those who are currently married. Those who are divorced or separated have an intermediate level of HIV infection (14 percent), while those who have never been in a marital union have a relatively low prevalence (2 percent).

A tiny fraction (less than 1 percent) of individuals who report never having been in union and never having had sex are HIV infected, suggesting either errors in reporting on sexual behaviour or nonsexual transmission of HIV infection, such as through blood transfusion or unsterile injections.

There is almost no difference in HIV prevalence for those in polygynous or monogamous marriages. Women who are not in a marital union (which includes those who are widowed, divorced, separated, or never married) are more likely to be HIV infected, while men who are not in a union are less likely to be infected.

Women who are not pregnant have a slightly higher prevalence of infection (8 percent) than those who are pregnant (7 percent). The HIV prevalence among women who are currently pregnant provides a useful benchmark for comparison with rates among pregnant women who are tested as part of the ANC sentinel surveillance system.

Table 8.5 HIV prevalence by sociodemographic characteristics, Uganda 2004-05 Women 15-49 Men 15-49 Total 15-49 Percentage Percentage Number Percentage Sociodemographic Number Number characteristic HIV positive HIV positive tested tested HIV positive tested Marital status Currently in union 5.9 5,977 3,973 9,950 Widowed1 31.2 557 32.2 94 31.4 651 10.8 Divorced/separated 742 500 13.9 1,241 16.0 2,075 4,985 2,910 Never in union 2.7 8.0 1.6 Ever had sex 5.6 816 1,584 2,400 2,585 Never had sex 0.8 1,259 0.2 1,327 0.5 Type of union In polygynous union 5.7 1,959 7.5 858 6.2 2,818 3,115 Not in polygynous union 6.0 4,018 6.6 6.3 7,133 Not currently in union 10.3 3,373 3.0 3,504 6.6 6,877 **Currently pregnant** Pregnant 1,068 na na na na Not pregnant/not sure 7.7 8,250 na na na na Birth in past 3 years 8.5 4,854 na na None na na Birth and ANC 3,866 6.0 na na na na Birth and no ANC 8.4 630 na na na na Total 15-49 7.5 9,391 5.0 7,515 16,906 6.4 Total 15-59 7.3 10,227 5.2 8,298 6.3 18,525

Note: Totals include a small number of cases with missing information.

ANC = antenatal care

na = Not applicable

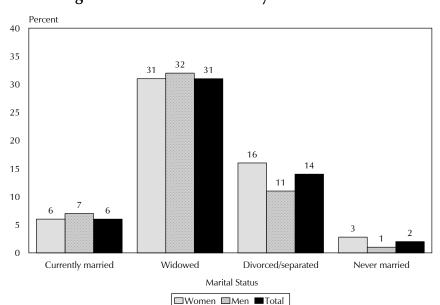


Figure 8.4 HIV Prevalence by Marital Status

UHSBS 2004-05

<sup>&</sup>lt;sup>1</sup> The category 'widowed' consists of those who are not currently married and who had a previous spouse who died. It may be slightly overestimated to the extent that respondents who are currently divorced but previously widowed are considered widowed instead of divorced.

The comparison is also made for women who gave birth in the three years before the survey and received ANC as opposed to those who did not or those who did not give birth during the time period. The data show that those who had ANC for a recent birth are slightly less likely to be HIV positive (6 percent) than those who either had a birth but did not receive ANC (8 percent) or did not have a birth (9 percent).

# 8.7 **HIV Prevalence and Male CIRCUMCISION**

Some research has shown a protective effect of male circumcision on the transmission of HIV. Lack of circumcision is considered a risk factor for HIV infection, in part because of physiological differences that increase the susceptibility to HIV infection among uncircumcised men (Agot et al., 2004; Auvert et al., 2001). In the UHSBS, men were asked whether they were circumcised. The data can be examined in relationship to HIV status.

As shown in Table 8.6, men who have been circumcised are slightly less likely to be HIV positive than those who are not circumcised (4 and 6 percent, respectively). The fact that this holds true for almost every sub-category of background characteristic implies that the pattern might be a result of the circumcision and not of the fact that circumcised men belong to a community or region that has a lower HIV prevalence for some reason that is unrelated to circumcision practices. For example, for most of the larger ethnic groups, HIV prevalence is lower among circumcised than uncircumcised men. Exceptions are the Lugbara/ Madi, Bagisu/Sabiny, and Alur/Jopadhola, where rates are higher among circumcised men. More sophisticated analysis is needed before being able to determine conclusively that circumcision reduces the risk of HIV transmission.

Table 8.6 HIV prevalence among circumcised and uncircumcised men, according to background characteristics, Uganda 2004-05

	Circumcise		Uncircumc 15-4	
Background characteristic	Percentage HIV positive	Number	Percentage HIV positive	Number
Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49	0.3 1.5 2.8 5.2 5.5 8.9 7.3	418 318 256 299 222 213 131	0.3 2.7 6.9 9.2 10.6 9.3 6.8	1,500 856 864 834 641 528 391
<b>Residence</b> Urban Rural	6.2 3.1	392 1,467	7.0 5.2	703 4,910
Region Central Kampala East Central Eastern Northeast North Central West Nile Western Southwest	6.2 2.2 3.1 5.1 (2.6) * 2.4 2.3 0.0	311 195 367 393 27 19 206 267 73	6.7 5.9 6.4 3.6 3.3 7.0 1.6 7.1 4.8	1,038 320 705 330 537 720 480 612 872
Education No education Primary incomplete Primary complete Secondary+	2.9 3.2 5.5 3.9	142 841 235 638	9.1 4.9 6.8 4.6	466 2,653 822 1,666
Wealth quintile Lowest Second Middle Fourth Highest	0.9 4.7 1.4 5.2 4.7	213 294 352 383 616	4.7 4.1 6.4 6.1 6.0	922 1,237 1,057 1,162 1,235
Highest  Ethnicity  Baganda Banyankore Iteso Lugbara/Madi Basoga Langi Bakiga Karimojong Acholi Bagisu/Sabiny Alur/Jopadhola Banyara Batoro All others  Religion Catholic Anglican/ rotestant Other Christian Muslim	3.6 2.6 (6.8) 2.8 2.7 * (10.4) * * 4.3 6.0 (7.0) (7.8) 1.8	402 68 35 213 236 8 42 11 18 359 73 38 44 308	6.7 6.1 4.5 1.9 7.2 7.2 3.6 1.2 6.5 0.0 3.9 6.8 14.3 4.0	1,235 903 707 458 349 449 424 495 177 325 91 339 209 153 526 2,837 2,279 396 24
Other Total 15-49 Total 15-59	* 3.7 3.8	15 1,858 2,047	2.9 5.5 5.6	61 5,613 6,200

Note: Totals include some cases with missing information. Numbers in parentheses are based on 25-49 unweighted cases; an asterisk refers to a figure based on fewer than 25 cases that has been suppressed.

# 8.8 HIV Prevalence by Sexual Risk Behaviours

Table 8.7 examines the prevalence of HIV infection according to several sexual behaviours among respondents who have ever had sexual intercourse. In reviewing these results, it is important to remember that responses about sexual risk behaviours may be subject to reporting bias. Also, sexual behaviour in the past 12 months may not adequately reflect lifetime sexual risk. Nor is it possible from the data to know the sequence of events, e.g., whether condom use predates or postdates HIV transmission.

The data show a slight tendency for HIV risk to be lower for those who initiate sex at a later age, though the relationship is only evident among women. For example, HIV prevalence is higher among women who first had sex before reaching age 15 (11 percent) and steadily declines to only 6 percent among women who delayed first sex until age 20 or older. Among men, the opposite pattern prevails, although the relationship is muted.

	Women 15 ever ha		Men 15-49 had		Total 15-49 had	
Sexual behaviour characteristic	Percentage HIV positive	Number	Percentage HIV positive	Number	Percentage HIV positive	Number
Age at first sex						
<15	11.4	1,417	4.3	905	8.6	2,322
15-17	9.1	3,652	6.4	2,193	8.1	5,845
18-19	7.5	1,473	6.2	1,442	6.9	2,915
20+	5.6	1,549	6.6	1,611	6.1	3,160
Higher-risk sex in past 12 months						
Had higher-risk sex	15.4	1,068	6.3	1,947	9.6	3,015
Had sex, not higher risk	6.1	5,871	6.2	3,331	6.2	9,202
No sex in past 12 months	14.4	1,152	4.9	873	10.3	2,025
Number of partners in past 12 months						
0	14.5	1,149	4.7	867	10.3	2,015
1	7.3	6,673	5.5	3,709	6.7	10,382
2	14.0	249	7.8	1,198	8.9	1,447
3+	*	21	9.2	377	9.1	398
Number of higher-risk partners in past 12 months						
0	7.5	7,024	6.0	4,187	6.9	11,211
1	15.1	966	6.3	1,478	9.7	2,443
2	20.8	87	5.5	326	8.7	413
3+	*	14	8.8	160	8.5	174
Any condom use ever						
Used condom	12.2	2,454	6.9	3,081	9.3	5,535
Never used condom	6.9	5,638	5.3	3,070	6.4	8,707
Condom use at last sex in past 12 months <sup>1</sup>						
Used condom	14.7	631	5.9	841	9.7	1,472
Did not use condom	6.8	6,306	6.4	4,429	6.6	10,734
Condom use at last higher-risk sex in past 12 months <sup>1</sup>						
Used condom	15.0	494	5.0	1,034	8.3	1,527
Did not use condom	15.8	572	7.9	905	11.0	1,477
No higher-risk sex	6.1	5,871	6.2	3,331	6.2	9,202
Fotal 15-49	8.5	,	6.1	6,151	7 5	14,242
Fotal 15-59	8.5 8.2	8,091 8,924	6.1	6,151	7.5 7.3	14,242

Note: Higher-risk sex refers to sex with a nonmarital, noncohabiting partner. An asterisk refers to a figure based on fewer than 25 unweighted cases that has been suppressed.

<sup>&</sup>lt;sup>1</sup> Refers to those who had sex in the past 12 months.

Women who said they had higher-risk sex (i.e., sex with a nonmarital, noncohabiting partner) in the year preceding the survey have a higher prevalence of HIV infection (15 percent) than those who said they had sex but not higher-risk sex (6 percent). Interestingly, women who had ever had sex but who said they had not had sex during the 12 months preceding the survey had almost as high prevalence of HIV infection (14 percent) as those who had higher-risk sex. This might be a result of the fact that those who have ever had sex but not during the past 12 months are less likely to be in a marital union, which as seen in Table 8.5, is associated with higher HIV prevalence for women. For men, there is almost no difference by higher-risk sex categories. Prevalence of HIV infection is 6 percent among men who reported having higher-risk sex in the past 12 months, as well as for those who had sex but not higher-risk sex, and it is 5 percent for those did not have sex in the past year.

The number of sexual partners in the 12 months before the survey shows the expected positive relationship with HIV prevalence for men, but not for women. Among men, HIV prevalence increases gradually as the number of partners increases, from 5 percent among those who did not have sex in the past 12 months to 9 percent among men who had three or more partners in the past year. For women, those who did not have sex in the past year were as likely to be HIV-positive as those who had two sexual partners in the past 12 months.

Table 8.7 also shows data on HIV infection levels by the number of higher-risk partners in the past 12 months. For women, HIV prevalence increases as the number of recent higher-risk sexual partners increases, while for men, there is only a weak positive association. Sexually experienced women who report having no higher-risk sex partners in the past 12 months have a prevalence of 8 percent, while prevalence is 15 and 21 percent, respectively, for those who had one or two or more higher-risk sex partners in the past 12 months. For men, prevalence of HIV infection is 6 percent among those with 0, 1, or 2 sexual partners in the past 12 months, and increases to 9 percent among those who report having three or more higher-risk sexual partners.

When used consistently and correctly, condoms are a very effective way of preventing HIV infection, sexually transmitted infections, and unwanted pregnancy. Results from the UHSBS do not show any consistent pattern of HIV infection levels by condom use behaviour. Among women, HIV prevalence is higher among those who have ever used a condom (12 percent) than among those who have not (7 percent), and is also higher among those who used a condom at last sex (15 percent) than among those who did not (7 percent). It is about equally as high among those who used a condom at last higherrisk sex as among those who did not (15 and 16 percent, respectively). Among men, differences are much smaller, though HIV prevalence is somewhat lower among men who used a condom at the last higher-risk sex (5 percent) than among those who did not (8 percent). It is difficult to sort out the direction of the relationship between condom use and HIV infection. Condoms can be used to protect HIV-negative users from becoming infected, but they can also be used to by HIV-positive individuals to protect their partners. Low prevalence of HIV infection among those reported to have not used a condom at last sex may be associated with the type of relationship; a majority of those who did not use a condom at last sex could be having sex with a husband or wife.

# 8.9 HIV Prevalence by Other Characteristics Related to HIV Risk

Table 8.8 presents variation in HIV prevalence by a number of other characteristics related to HIV risk behaviours among men and women who have ever had sex. As expected, women and men with a recent history of a sexually transmitted infection (STI) or STI symptoms in the 12 months preceding the survey have higher rates of HIV infection than those with none (13 and 5 percent, respectively). The same pattern holds for women and men.

Both women and men who have been tested for HIV in the past are more likely to be HIV positive than those who have never been tested. Among those who have ever had sex, the prevalence of HIV infection among women and men who have ever had an HIV test is 11 percent, compared with 7 percent for those who have never been tested for HIV. Among women who have ever had sex, the level of HIV infection is 14 percent among those who have ever been tested for HIV, compared with 8 percent among those who have never been tested. Among men, 8 percent of those previously tested are HIV positive, compared with 6 percent of those who have never been tested (Table 8.8).

	Women 1 ever ha		Men 15-49 who ever had sex		Total 15-4 ever ha		
Characteristic	Percentage HIV positive	Number of women	Percentage HIV positive		Percentage HIV positive	Number	
Had STI in past 12 months							
Had STI or STI symptoms	13.4	2,716	12.9	1,310	13.3	4,026	
No STI, no symptoms	6.1	5,375	4.2	4,841	5.2	10,216	
Prior HIV testing status							
Ever tested	13.8	1,300	7.5	857	11.3	2,157	
Never tested	7.5	6,792	5.9	5,293	6.8	12,085	
Total	8.5	8,091	6.1	6,151	7.5	14,242	

Table 8.9 provides further information about the relationship between prior HIV testing and the actual HIV status of respondents. The results show that many individuals who are HIV positive have not been tested and do not know their status. Eighty percent of infected respondents (77 percent of infected women and 85 percent of infected men) do not know their HIV status, either because they never got tested or because they were tested and did not receive their HIV test results.

Women 15-49 Men 15-49 Total											
Prior HIV testing status	Percentage HIV positive	Percentage HIV negative	Percentage HIV positive	Percentage HIV negative	Percentage HIV positive	Percentage HIV negative					
Ever tested, knows results of last test	23.5	11.8	15.0	10.3	20.5	11.1					
Ever tested, does not know results	2.2	2.0	2.0	1.6	2.1	1.8					
Never tested	74.4	86.2	83.0	88.1	77.4	87.1					
Total	100.0	100.0	100.0	100.0	100.0	100.0					
Number	701	8,634	377	7,084	1,079	15,718					

# 8.10 Prevalence of HIV Among Youth

Generally, cases of HIV infection among youth aged 15-24 represent more recent infections and serve as an important indicator for detecting trends in both prevalence and incidence. An attempt was made to estimate incidence by subjecting all HIV-positive samples to the BED-assay. However, recent evidence suggests that this test overestimates incidence (UNAIDS, 2005). Consequently, the results are not shown here and will instead be subjected to further analysis. Table 8.10 shows HIV prevalence levels among youth according to several indicators of sexual behaviour. Prevalence of HIV for the 15-24 age group is 3 percent. However, there is a sizeable gender gap. Prevalence among women age 15-24 years is 4 percent, while among men, it is only 1 percent. Prevalence rises rapidly with age, especially among women.

Urban youth—both female and male—are more likely to be infected than those in rural areas (5 percent versus 3 percent). Young women and men in Kampala, Western, and North Central regions are more likely to be HIV positive than those living elsewhere, especially those in West Nile and Northeast regions.

	Womer	n 15-24	Men 1	15-24	Total 1	5-24
Background Characteristic	Percent HIV positive	Number of women	Percent HIV positive	Number of men	Percent HIV positive	Number
Age						
1̃5-17	1.9	1,293	0.3	1,214	1.1	2,508
18-19	3.9	757	0.2	707	2.1	1,465
20-22	5.5	1,174	2.3	762	4.3	1,935
23-24	7.7	623	2.5	414	5.7	1,036
Residence						
Urban	6.9	694	1.8	506	4.8	1,200
Rural	3.8	3,153	0.9	2,591	2.5	5,744
Region						
Central	4.8	681	1.7	602	3.4	1,284
Kampala	6.3	324	0.6	248	3.8	572
East Central	5.0	620	0.8	445	3.3	1,064
Eastern	2.9	314	1.3	304	2.1	618
Northeast	2.8	286	0.4	198	1.8	484
North Central	5.1	323	1.9	244	3.7	566
West Nile	1.3	369	0.4	306	0.9	676
Western	5.5	442	1.5	333	3.8	774
Southwest	4.2	488	0.6	417	2.5	906
Marital status						
Currently in union	5.7	1,673	3.9	415	5.3	2,088
Widowed	(38.2)	25	*	1	(39.7)	26
Divorced/separated	10.7	227	7.5	99	9.7	327
Never in union	2.0	1,922	0.4	2,582	1.1	4,504
Ever had sex	4.1	687	0.5	1,302	1.7	1,989
Never had sex	0.9	1,235	0.2	1,281	0.5	2,515
	0.5	.,_55	5 <b>.2</b>	.,20.	0.0	_,5.5
ligher-risk sex in past 12 months	6.0	500		054	2.5	4 5 40
Had higher-risk sex	6.8	598	1.4	951	3.5	1,549
Had sex, not higher risk	5.7 5.7	1,690	4.2 0.6	328	5.5	2,018
No sex in past 12 months	5.7	325	0.6	538	2.5	862
Number of partners in past						
2 months <sup>1</sup>						
0	5.8	324	0.6	537	2.6	860
1	5.9	4,337	1.6	1,827	4.6	6,165
2+	8.7	237	3.5	726	4.8	963
Number of higher-risk partners in past 12 months <sup>1</sup>						
0	5.7	3,705	2.6	1,191	5.0	4,895
1	6.5	1,088	0.9	1,395	3.3	2,483
2+	10.9	105	2.7	504	4.1	609
	10.5	103	2.7	301		003
Any condom use ever	6.0	4.0.0	4.0	4.40=	4 -	0.010
Used condom	6.9	1,243	1.9	1,105	4.5	2,348
Never used condom	5.2	1,369	1.3	711	3.9	2,081
Condom use at last sex in past						
2 months <sup>2</sup>						
Used condom	6.4	350	0.6	491	3.0	841
Did not use condom	6.0	1,936	3.1	782	5.2	2,717
Condom use at first sex 1						
Used condom	5.9	761	1.7	586	4.1	1,348
Did not use condom	6.0	1,851	1.7	1,230	4.3	3,082
Did not use conduit	0.0	1,051	1./	1,230	т.Э	3,002

Note: Higher-risk sex refers to sex with a nonmarital, noncohabiting partner. Numbers in parentheses are based on 25-49 unweighted cases; an asterisk refers to a figure based on fewer than 25 unweighted cases that has been suppressed.

<sup>&</sup>lt;sup>1</sup> Refers to those who have ever had sex. <sup>2</sup> Refers to those who had sex in the past 12 months.

HIV infection is greatest among the small number of youth who are widowed, divorced, or separated, followed by those who are currently married. The lowest levels of infection are found among young people who have never married. Differences in HIV prevalence by whether or not the respondent had higher-risk sex in the past 12 months are difficult to interpret. Among young women, those who had higher-risk sex are slightly more likely to be HIV positive than those who had non-higher-risk sex. The opposite is true for young men. Similarly, there is some evidence that having more sexual partners and more higher-risk sexual partners is related to higher infection rates. However, this is not uniformly true, especially among young men. Condom use also has an inconsistent relationship with HIV prevalence.

# 8.11 HIV Prevalence among Cohabiting Couples

As part of the 2004-05 UHSBS, almost 4,000 cohabiting couples were both tested for HIV. Results show that for 91 percent of cohabiting couples, both partners are HIV negative, while for 3 percent, both partners are HIV positive (Table 8.11). Data also show that 5 percent of cohabiting couples are discordant, that is one partner is infected and the other is not. In 3 percent of couples, the male partner is infected and the woman is not, while in another 2 percent of couples, the woman is infected and the man is not. Discordance is more common among urban couples than rural couples and is especially high among couples who disagree as to whether their union is monogamous or polygynous. There is a much higher level of discordant couples in Kampala than in other regions. Differences by other background characteristics are not large.

The fact that there are more cohabiting couples who are discordant for HIV than there are cohabiting couples who are both infected, represents an unmet HIV prevention need for the country. This is because the vast majority of these cohabiting couples do not mutually know their HIV status and therefore are not empowered to take action to prevent further spread of the disease.

Table 8.11							
HIV prevalence among cohab	iting couple	es, Uganda	2004-05				
Background	Both partners HIV	Man positive, woman	Woman positive, man	Both partners HIV			
characteristic	positive	negative	negative	negative	Other	Total	Number
Woman's age							
15-19	4.1	3.2	2.1	90.7	0.0	100.0	232
20-29	3.4	2.9	1.8	91.0	0.9	100.0	1,731
30-39	3.7	2.8	2.2	91.0	0.3	100.0	1,209
40-59	2.7	2.4	1.2	93.4	0.3	100.0	725
Man's age							
15-19	*	*	*	*	*	100.0	21
20-29	3.0	2.0	2.6	91.6	0.8	100.0	923
30-39	3.4	3.2	1.7	91.1	0.5	100.0	1,452
40-59	3.7	2.9	1.4	91.6	0.4	100.0	1,500
Type of union							
Monogamous	3.7	2.5	1.4	91.9	0.5	100.0	2,742
Polygynous	2.4	3.3	2.0	91.9	0.4	100.0	859
Couple disagrees on status	3.9	4.1	5.1	86.0	0.9	100.0	296
Residence							
Urban	6.5	3.9	4.0	85.3	0.3	100.0	342
Rural	3.1	2.7	1.6	92.0	0.6	100.0	3,555
Region							
Central	4.5	4.4	1.8	88.1	1.2	100.0	575
Kampala	6.3	2.3	5.1	86.4	0.0	100.0	119
East Central	2.5	3.2	2.5	91.3	0.5	100.0	576
Eastern	3.7	2.4	1.7	91.8	0.5	100.0	422
Northeast	1.3	2.1	2.2	94.4	0.1	100.0	393
North Central	3.2	4.0	0.8	91.2	0.8	100.0	452
West Nile	1.0	0.7	0.7	97.4	0.2	100.0	368
Western	4.0	2.7	2.7	90.5	0.2	100.0	509
Southwest	5.3	2.1	1.0	90.8	0.8	100.0	482
Woman's education							
No education	2.7	2.0	1.5	93.4	0.5	100.0	1,141
Primary incomplete	3.6	3.4	1.5	90.9	0.5	100.0	1,897
Primary complete	3.8	1.1	2.9	90.6	1.5	100.0	407
Secondary+	4.0	3.8	2.7	89.5	0.0	100.0	444
Man's education							
No education	3.3	1.7	1.0	93.4	0.7	100.0	471
Primary incomplete	3.2	2.7	2.0	91.6	0.5	100.0	1,859
Primary complete	3.5	3.4	1.4	90.5	1.2	100.0	659
Secondary+	3.8	3.0	2.3	90.9	0.0	100.0	897
Wealth quintile			0.0	0	0.0	1000	
Lowest	2.2	1.9	0.8	94.8	0.3	100.0	688
Second	2.0	3.0	1.6	92.7	0.6	100.0	847
Middle	3.9	2.8	1.7	90.9	0.8	100.0	853
Fourth Highest	3.9 5.2	3.5 2.6	2.0 3.1	90.4 88.3	0.2 0.8	100.0 100.0	843 665
Total	3.4	2.8	1.8	91.4	0.5	100.0	3,896

Note: Data refer to only those couples in which both partners were tested. An asterisk indicates a figure that is based on fewer than 25 cases that has been suppressed.

# 8.12 HIV Prevalence among Children Under Five

One of the objectives of the UHSBS was to ascertain the HIV prevalence among children under five. As mentioned in Chapter 1, this involves more detailed testing, because children under 18 months whose mothers are HIV positive are likely to test positive on standard ELISA HIV tests even if they are not themselves carrying the virus. To get accurate data for these young children, it is necessary to do a confirmatory test on all positive cases using a polymerase chain reaction test.

Table 8.12 shows that of all the eligible children under age five, a valid HIV test result was obtained for 88 percent. Six percent of children were not tested because their parent or guardian refused the test, while 4 percent were not available for testing. For 3 percent of eligible children, a test was not done because of technical problems or because the sample was lost.

Differences in coverage levels for children are not large, although the response rates in North Central and Kampala were particularly low (76-77 percent). Coverage is also lower among children whose mothers were not tested and those whose mothers had died.

Table 8.13 shows that only a tiny fraction of children are HIV positive—less than 1 percent. Moreover, there are few differentials by background characteristics of the child or the mother. Prevalence is slightly higher among children in urban areas, and specifically Kampala, than in other areas. Prevalence is also higher among children whose mothers are widowed, divorced, or separated, because as shown in previous tables, HIV infection is also higher among these mothers. In fact, the most striking figure in Table 8.13 is that HIV prevalence is very high (10 percent) among children whose mothers are also HIV positive. Because mother-to-child transmission is by far the most likely means of transmission of HIV infection among children, this is hardly surprising. Only a tiny fraction (one-tenth of 1 percent) of children whose mothers are HIV negative are themselves HIV positive. HIV prevalence is also relatively high (4 percent) among children whose mothers have died.

		HIV test	ing status			
Background characteristic	Tested with valid result	Refused	Absent/ other	Missing/ technical problem	Total	Number of children
Age						
<18 months	87.4	6.9	3.1	2.5	100.0	3,099
18-59 months	88.0	5.3	4.2	2.5	100.0	6,418
Sex						
Male	87.8	5.5	4.0	2.6	100.0	4,745
Female	87.7	6.1	3.7	2.4	100.0	4,795
						.,
<b>Residence</b> Urban	82.5	8.8	5.6	3.1	100.0	1,117
Rural	62.5 88.5	o.o 5.4	3.6	2.4	100.0	8,423
	00.3	J. <del>4</del>	5.0	2.4	100.0	0,423
Region						
Central	89.6	6.7	1.7	2.0	100.0	940
Kampala	77.1	11.3	7.5	4.1	100.0	603
East Central	97.2	1.0	1.6	0.2	100.0	1,206
Eastern	89.2	7.3	2.3	1.3	100.0	1,014
Northeast	84.4	9.3	4.6	1.8	100.0	1,291
North Central	75.8	8.7	11.8	3.7	100.0	1,138
West Nile	89.1	2.8	3.0	5.0	100.0	1,314
Western	92.2	4.1	2.0	1.7	100.0	1,068
Southwest	91.4	4.0	1.2	3.3	100.0	966
Wealth quintile						
Lowest	86.5	6.3	4.7	2.5	100.0	1,980
Second	87.7	6.1	4.1	2.1	100.0	2,196
Middle	88.7	5.0	3.7	2.6	100.0	1 <i>,</i> 957
Fourth	90.4	4.9	2.4	2.4	100.0	1,693
Highest	85.8	6.8	4.3	3.2	100.0	1,714
Mother's HIV status						
Positive	94.2	3.3	1.4	1.1	100.0	361
Negative	93.0	2.9	2.3	1.8	100.0	7,271
Missing/Not interviewed	66.8	17.6	10.2	5.5	100.0	1,908
Mother's survival						
Alive, not sick	88.0	6.0	3.7	2.4	100.0	8,017
Alive, sick	86.6	7.4	4.5	1.5	100.0	202
Alive, illness status missing/						
not in household	87.6	4.5	4.7	3.3	100.0	1,136
Dead	78.4	5.9	10.8	4.9	100.0	102
Missing	84.3	7.2	2.4	6.0	100.0	83
Total	87.8	5.8	3.9	2.5	100.0	9,540

Table 8.13 HIV prevalence among children under age five, Uganda 2004-05 Percentage Number of Background characteristic HIV positive children Age <18 months 1.0 2,666 18-59 months 0.5 5,689 Sex 0.7 4,148 Male 0.7 Female 4,226 Residence Urban 1.5 814 Rural 0.6 7,560 Region Central 8.0 1,444 Kampala 2.2 292 East Central 1.0 1,398 0.6 Eastern 827 Northeast 0.4 758 North Central 8.0 889 West Nile 0.1 732 Western 0.5 1,008 Southwest 0.5 1,026 Mother's education No education 0.5 1,866 Primary incomplete 0.6 3,688 Primary complete 815 1.1 838 Secondary+ 0.9 Missing/not interviewed 0.7 1,166 Mother's marital status Never married 0.6 185 Married 0.5 6,284 Widowed 2.5 255 Divorced/separated 2.1 407 Missing/not interviewed 0.6 1,244 Wealth quintile Lowest 0.4 1,481 Second 0.4 1,891 Middle 0.4 1,802 Fourth 1.0 1,683 Highest 1.2 1,517 Mother's HIV status Positive 10.2 364 Negative 0.1 6,671 Missing/not interviewed 8.0 1,339 Mother's survival 0.7 6,979 Alive, not sick 0.7 Alive, sick 179 Alive, illness status missing/ not in household 0.4 1,069 Dead 4.4 80 Don't know/missing 0.0 67 Total 0.7 8,374

# 9.1 **KEY FINDINGS**

- Three percent of Ugandan adults aged 15-49 have syphilis, with equal prevalence among women and men.
- There is virtually no urban-rural difference in syphilis prevalence.
- Syphilis is most common in Northeast and North Central regions (5 percent) and least common in West Nile region (1 percent).
- Unlike HIV prevalence, syphilis infection declines slightly with increasing education and wealth.
- Seven percent of cohabiting couples in Uganda are discordant, i.e., one partner is syphilis positive and the other is negative.

# 9.2 Introduction

Obtaining a reliable estimate of the level of syphilis infection among the adult population in Uganda was one of the main objectives of the UHSBS. Syphilis has been demonstrated to greatly enhance HIV transmission, most likely because the presence of genital ulcers provides an easy path for the entry of the HIV virus.

As part of the informed consent statement used in the UHSBS, respondents were asked if they would agree to provide a venous blood sample for testing for HIV, syphilis, herpes, and hepatitis. They were also told that they could receive the results of their syphilis test the following day and be provided with free treatment at home if they tested positive. Syphilis is widely viewed as being a common illness. It also is generally not regarded with the stigma that it often carries in other settings (Yoder et al., 2006). A qualitative study that was linked to the home-based follow-on survey after the UHSBS found that survey respondents were generally pleased at being offered free testing and treatment for syphilis; this was perceived by respondents as an incentive to participate (Yoder et al., 2006).

# 9.3 **COVERAGE OF SYPHILIS TESTING**

Unlike HIV, syphilis testing requires a venous blood sample and cannot be implemented using dried blood spot samples. As shown in Table 9.1, 97 percent of adults who gave blood provided a venous sample and 3 percent gave a dried blood spot. Differences by gender were minimal, but respondents in urban areas and in Kampala who agreed to provide blood for testing were more likely than others to agree to provide only a blood spot (7 and 9 percent, respectively).

Table 9.1 Type of blood sample provided by women and men aged 15-49 by residence and region, Uganda 2004-05 (unweighted percent distribution)

	Resi	dence					Region					
				1	East		North-	North	West		South-	
Type of blood sample	Urban	Rural	Central	Kampala	Central	Eastern	east	Central	Nile	Western	west	Total
					WON	ΛEN						
Venous	91.5	97.3	96.3	89.3	98.8	96.5	96.7	95.1	97.2	97.0	98.4	96.3
Blood spot	8.0	2.3	3.2	10.4	0.9	2.9	2.9	4.6	2.3	2.5	1.1	3.3
Other, missing	0.5	0.4	0.5	0.3	0.4	0.6	0.3	0.3	0.6	0.5	0.5	0.4
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number giving blood	1,667	7,756	876	969	1,142	857	1,192	958	1,420	1,008	1,001	9,423
					ME	N						
Venous	94.7	97.7	97.2	92.9	98.8	96.6	96.7	95.3	98.3	99.3	98.9	97.2
Blood spot	5.1	1.7	2.2	6.9	1.1	2.6	3.0	4.1	1.2	0.2	0.6	2.3
Other, missing	0.2	0.5	0.6	0.1	0.1	8.0	0.3	0.6	0.5	0.5	0.5	0.5
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number giving blood	1,225	6,288	772	709	857	769	869	781	1,109	861	786	7,513
					TOT	AL						
Venous	92.9	97.5	96.7	90.8	98.8	96.6	96.7	95.2	97.7	98.1	98.6	96.7
Blood spot	6.8	2.1	2.7	8.9	1.0	2.8	3.0	4.4	1.8	1.4	0.9	2.9
Other, missing	0.3	0.5	0.5	0.2	0.3	0.7	0.3	0.5	0.6	0.5	0.5	0.4
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number giving blood	2,892	14,044	1,648	1,678	1,999	1,626	2,061	1,739	2,529	1,869	1,787	16,936

# 9.4 SYPHILIS PREVALENCE BY AGE AND SEX

Survey results indicate that 3 percent of Ugandan adults are currently infected with syphilis (Table 9.2 and Figure 9.1), with the same level among women and men aged 15-49. Syphilis is slightly more common among younger women than men, but among those aged 30 and over, the disease is more prevalent among men than women.

Prevalence for both women and men generally increases with age. Among women, the highest level occurs at ages 50-54 (6 percent), while among men, the highest rate is at ages 45-49 (9 percent).

Table 9.2  Syphilis prev	alence by age	, Uganda	2004-05				
	Wom	en	Me	n	Total		
Age	Percentage positive for syphilis	Number tested	Percentage positive for syphilis	Number tested	Percentage positive for syphilis	Number tested	
15-19	1.3	1,979	0.9	1,890	1.1	3,869	
20-24	3.0	1,752	1.4	1,147	2.4	2,899	
25-29	3.4	1,615	2.5	1,091	3.0	2,707	
30-34	3.0	1,339	3.5	1,110	3.3	2,450	
35-39	4.9	1,001	4.4	842	4.7	1,843	
40-44	5.1	789	6.0	731	5.5	1,520	
45-49	3.4	604	8.9	510	5.9	1,114	
50-54	5.8	496	7.8	442	6.7	938	
55-59	4.9	310	6.8	313	5.9	623	
Total 15-49	3.1	9,079	3.1	7,323	3.1	16,401	
Total 15-59	3.3	9,885	3.5	8,078	3.4	17,963	

The prevalence of current syphilis infection as measured in the survey is substantially lower than that found in a study of 12,800 rural residents aged 15-59 in Rakai, Uganda; that study found that 10 percent of adults were positive for syphilis (Paxton et al., 1998).

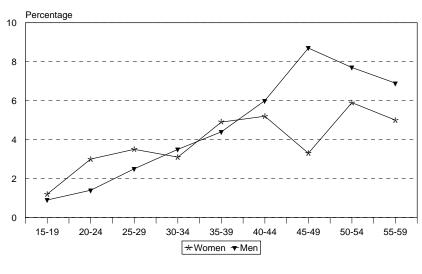


Figure 9.1 Syphilis Prevalence by Sex and Age

UHSBS 2004-05

# 9.5 Prevalence of Syphilis by Background Characteristics

Unlike HIV infection—which is more common among urban than rural residents—there is virtually no urban-rural difference in the level of infection with syphilis (Table 9.3). Regional variations also differ from those for HIV infection. Whereas Northeast has one of the lowest levels of HIV infection, it shows the highest level of syphilis infection (5 percent), followed by North Central region (5 percent). West Nile has the lowest level of both HIV and syphilis infection. However, Kampala has one of the highest levels of HIV infection and one of the lowest levels of syphilis infection (2 percent). It should be noted that the regional differences for syphilis infection are small. It is also worth noting that although syphilis facilitates HIV infection and thus might be expected to be highly correlated with HIV infection, unlike HIV, it is highly treatable. Therefore, differentials in syphilis infection might be expected to be different from HIV infection, since those who have better access to health care can easily be treated for syphilis.

Syphilis prevalence declines with the level of education for both women and men. It is slightly higher among those who are working (4 percent) than those who are not (2 percent). The data also show a steady decline in syphilis infection with wealth quintile.

Differences in syphilis infection by ethnic group show that the Karimojong are the most affected, with 9 percent testing positive. Again, this is the opposite of the results for HIV, which show the Karimojong with the lowest level of HIV infection. The Lugbara/Madi are the least likely to have syphilis (1 percent), followed by the Basoga and Baganda (2 percent). Differences in syphilis infection by religion are minimal.

Table 9.3 Syphilis prevalence by background characteristics, Uganda 2004-05 Total Women 15-49 Men 15-49 Percent Percent Percent positive for Background Number positive for positive for Number Number characteristic syphilis tested syphilis tested syphilis tested Residence Urban 2.3 1,326 2.8 1,043 2.5 2,369 Rural 3.2 7,753 3.1 6,280 3.2 14,033 Region Central 4.0 1,513 2.9 1,318 3.5 2,831 Kampala 1.9 566 2.3 480 2.0 1,046 East Central 2.3 1,455 1.8 1,066 2.1 2,521 Eastern 2.8 785 3.1 706 3.0 1,491 Northeast 5.0 754 4.8 549 4.9 1,303 North Central 3.4 874 5.9 711 4.5 1,586 1.2 877 678 1,554 West Nile 1.6 1.4 1,040 Western 4.4 3.8 870 4.2 1,910 Southwest 2.6 1,215 2.5 944 2.6 2,159 **Education** No education 4.5 2,068 5.5 605 4.7 2,673 Primary incomplete 3.0 4,236 3.6 3,445 3.3 7,681 2.7 1,029 2.2 1,032 2.4 2,062 Primary complete 1.9 1,731 2.0 2,231 3,962 Secondary+ 1.9 **Employment** 5,052 Currently working 3.7 5,567 3.8 3.7 10,620 Not working 2.2 3,442 1.4 2,190 1.9 5,632 Wealth quintile 1,480 2,597 Lowest 4.6 4.1 1,117 4.4 Second 3.5 1,872 3.1 1,515 3.3 3,386 Middle 1,725 1,386 3.3 3.4 3.4 3,111 Fourth 2.8 1,846 2.9 1,522 2.9 3,368 Highest 1.9 2,157 2.3 1,783 2.1 3,939 **Ethnicity** Baganda 2.2 1,598 2.7 1,260 2.4 2,859 Banyankore 3.0 941 2.2 756 2.7 1,696 593 1,074 Iteso 2.7 2.9 480 2.8 Lugbara/Madi 0.6 1.3 554 0.9 1,275 721 881 Basoga 1.6 1.9 674 1.8 1,555 3.3 466 5.0 416 4.1 882 Langi Bakiga 4.0 613 2.9 530 3.5 1,142 9.6 269 7.2 175 8.6 444 Karimojong Acholi 4.2 441 6.9 326 5.3 767 Bagisu/Sabiny 3.3 412 3.0 445 3.1 857 403 870 Alur/Jopadhola 4.4 467 3.5 4.0 2.5 291 2.8 240 2.6 531 Banyara Batoro 4.7 221 5.5 196 5.1 417 All others 4.4 1,121 3.0 819 3.8 1,940 Religion Catholic 3.8 3,773 3.6 3,073 3.7 6,846 Anglican/Protestant 2.5 3,083 2.5 2,672 2.5 5,756 499 Other Christian 3.3 802 3.7 3.5 1,301 Muslim 2.2 1,251 2.6 947 2.4 2,199 Other 7.6 100 74 7.2 175 6.6 Total 15-49 3.1 9,079 3.1 3.1 16,401 7,323 Total 15-59 8,078 17,963 3.3 9,885 3.5 3.4 Note: Totals include some cases with missing information

# 9.6 SYPHILIS PREVALENCE BY SOCIODEMOGRAPHIC CHARACTERISTICS

Syphilis prevalence varies by marital status. Table 9.4 shows that those who are widowed are the most likely have syphilis (5 percent), while those who have never been in union are the least likely (1 percent). The fact that those who say they have never had sex are equally as likely to have syphilis as those who have never married but have had sex (1 percent for both) is disturbing and may reflect underreporting of sexual experience, nonsexual transmission of the disease, and/or testing errors.

There are no significant differences in syphilis prevalence by type of union (polygynous or not), or for women, by whether they are pregnant or not, or whether they received antenatal care for a birth in the three years preceding the survey or not. Similarly, there is no significant difference in syphilis prevalence among men who are circumcised and those who are not.

	Women	15-49	Men 1	5-49	Total 1	5-49
Sociodemographic characteristic	Percentage positive for syphilis	Number tested	Percentage positive for syphilis	Number tested	Percentage positive for syphilis	Number tested
Marital status						
Currently in union Widowed <sup>1</sup>	3.5 5.5	5,798 540	4.3 4.4	3,876 93	3.8 5.4	9,674 634
Divorced/separated Never in union Ever had sex	3.3 1.2 0.9	714 1,988 774	4.4 1.2 1.4	480 2,836 1,544	3.8 1.2 1.2	1,194 4,824 2,318
Never had sex	1.4	1,214	1.0	1,292	1.2	2,506
Type of union In polygynous union Not in polygynous union Not currently in union	3.6 3.5 2.4	1,902 3,896 3,242	5.2 4.0 1.8	837 3,039 3,409	4.1 3.7 2.1	2,739 6,935 6,651
Currently pregnant Pregnant Not pregnant/ not sure	2.9 3.1	1,034 7,974	na na	na na	2.9 3.1	1,034 7,974
Births in past 3 years None Birth and ANC Birth and no ANC	3.1 3.0 4.3	4,672 3,760 608	na na na	na na na	3.1 3.0 4.3	4,672 3,760 608
Male circumcision status Circumcised Not circumcised	na na	na na	2.7 3.2	1,821 5,458	2.7 3.2	1,821 5,458
Total 15-49	3.1	9,079	3.1	7,323	3.1	16,401
Total 15-59	3.3	9,885	3.5	8,078	3.4	17,963

Note: Totals include a small number of cases with missing information.

ANC = antenatal care

na = Not applicable

<sup>&</sup>lt;sup>1</sup> The category 'widowed' consists of those who are not currently married and who had a previous spouse who died. It may be slightly overestimated to the extent that respondents who are currently divorced but previously widowed are considered widowed instead of divorced.

# 9.7 SYPHILIS PREVALENCE BY SEXUAL RISK BEHAVIOURS

Table 9.5 examines the prevalence of syphilis infection according to several sexual behaviours among respondents who have ever had sexual intercourse. There are no strong differences for any of the variables examined. There is a slight tendency for syphilis prevalence to increase with the number of sexual partners in the previous 12 months. However, the relationship with the number of higher-risk sexual partners in the previous 12 months is erratic. Differences by condom use variables are also very small.

	Women 1. ever ha		Men 15- ever ha		Total 15- ever ha	
Sexual behaviour characteristic	Percentage positive for syphilis	Number	Percentage positive for syphilis	Number	Percentage positive for syphilis	Numbe
Age at first sex	1.		,,		1.	
<15	3.9	1,379	2.2	881	3.3	2,260
15-17	2.8	3,516	3.9	2,139	3.2	5,655
18-19	4.1	1,431	3.9	1,405	4.0	2,836
20+	3.5	1,500	3.5	1,568	3.5	3,068
Higher-risk sex in past 12 months						
Had higher-risk sex	3.2	1,027	3.1	1,897	3.1	2,923
Had sex, not higher risk	3.4	5,696	4.1	3,250	3.7	8,946
No sex in past 12 months	3.4	1,104	2.7	846	3.1	1,950
Number of partners in past 12 months						
0	3.4	1,100	2.6	840	3.0	1,940
1	3.2	6,467	3.6	3,626	3.4	10,093
2	7.4	240	4.3	1,164	4.8	1,403
3+	*	20	3.0	363	2.8	383
Number of higher-risk partners in past 12 months						
0	3.4	6,801	3.8	4,081	3.6	10,881
1	2.3	931	3.5	1,448	3.0	2,379
2	13.8	82	1.4	313	4.0	395
3+	*	13	2.5	152	2.3	165
Any condom use ever						
Used condom	2.8	2,352	2.7	2,994	2.8	5,347
Never used condom	3.6	5,474	4.4	2,998	3.9	8,473
Condom use at last sex in past 12 months <sup>1</sup>						
Used condom	2.6	605	1.6	810	2.0	1,416
Did not use condom	3.5	6,115	4.1	4,328	3.7	10,443
Condom use at last higher-risk sex in past 12 months <sup>1</sup>						
Used condom	2.9	478	2.6	1,002	2.7	1,480
Did not use condom	3.4	546	3.6	886	3.5	1,432
No higher-risk sex	3.4	5,696	4.1	3,250	3.7	8,946
Total 15-49	3.4	7,827	3.5	5,993	3.5	13,820
Total 15-59	3.6	8,630	4.0	6,743	3.8	15,374

Note: Higher-risk sex refers to sex with a nonmarital, noncohabiting partner. An asterisk refers to a figure based on fewer than 25 unweighted cases that has been suppressed.

<sup>&</sup>lt;sup>1</sup> Refers to those who had sex in the past 12 months.

# 9.8 SYPHILIS PREVALENCE BY STI REPORTING

Table 9.6 shows that respondents who reported that they did not have a sexually transmitted infection (STI) or an STI symptom in the past 12 months were slightly more likely to be infected with syphilis than those who reported having had an STI or an STI symptom. This is contrary to expectation and implies that many people who have syphilis do not have symptoms.

		Women 15-49 who ever had sex		Men 15-49 who ever had sex		49 who ad sex
STI status	Percentage positive for syphilis	Number of women	Percentage positive for syphilis	Number of men	Percentage positive for syphilis	Numbe
Had STI or STI symptoms	3.5	2,653	2.6	1,288	3.2	3,940
No STI, no symptoms	3.4	5,174	3.8	4,705	3.6	9,879
Total	3.4	7,827	3.5	5,993	3.5	13,820

# 9.9 SYPHILIS PREVALENCE AMONG COHABITING COUPLES

Table 9.7 shows that there is a relatively high level of 'discordance' for syphilis infection among cohabiting couples in Uganda, that is, cases in which only one partner is infected. In 4 percent of couples, the man has syphilis and the woman does not, while in 3 percent of couples, the woman has syphilis and the man does not, for a total of 7 percent of couples being discordant. For a small fraction (less than 1 percent) of cohabiting couples both partners have syphilis. Differences by background characteristics are small.

Background characteristic	Both partners have syphilis	Man positive, woman negative	Woman positive, man negative	Both partners do not have syphilis	Total	Number
Woman's age				71		
15-19	0.0	1.7	1.3	97.0	100.0	214
20-29	0.4	2.8	2.6	94.2	100.0	1,655
30-39	1.0	5.5	3.5	90.0	100.0	1,157
40-59	1.1	6.1	2.4	90.4	100.0	686
Man's age						
15-19	*	*	*	*	100.0	21
20-29	0.3	2.0	2.6	95.1	100.0	879
30-39	0.7	3.8	2.8	92.7	100.0	1,382
40-59	1.0	6.0	2.9	90.1	100.0	1,429
Type of union						
Monogamous	0.8	4.0	2.7	92.5	100.0	2,612
Polygynous	0.6	5.2	2.7	91.5	100.0	820
Couple disagrees on status	0.2	3.4	3.4	93.0	100.0	279
Residence						
Urban	0.3	4.1	2.3	93.4	100.0	311
Rural	0.7	4.2	2.8	92.2	100.0	3,401
Region						
Central	0.6	4.0	3.6	91.8	100.0	557
Kampala	0.0	3.4	1.4	95.2	100.0	98
East Central	0.2	2.7	3.0	94.0	100.0	565
Eastern	0.8	5.2	2.8	91.3	100.0	401
Northeast	0.9	4.6	3.0	91.4	100.0	372
North Central	1.3	8.4	2.9	87.4	100.0	415
West Nile	0.5	2.0	0.9	96.6	100.0	347
Western	1.1	3.6	3.5	91.8	100.0	486
Southwest	0.5	3.6	2.1	93.7	100.0	471
Woman's education						
No education	1.1	4.7	3.1	91.0	100.0	1,089
Primary incomplete	0.7	4.3	2.7	92.3	100.0	1,829
Primary complete	0.3	3.2	2.8	93.6	100.0	383
Secondary+	0.0	3.5	1.9	94.6	100.0	405
Man's education						
No education	1.5	4.2	5.8	88.5	100.0	450
Primary incomplete	0.9	4.6	2.3	92.2	100.0	1,790
Primary complete	0.5	3.4	2.9	93.2	100.0	631
Secondary+	0.1	4.0	2.0	93.8	100.0	831
Wealth quintile						
Lowest	1.3	4.2	2.6	91.9	100.0	651
Second	0.8	4.7	3.7	90.9	100.0	812
Middle	0.6	4.2	2.3	92.9	100.0	826
Fourth	0.6	4.0	3.1	92.2	100.0 100.0	812
Highest	0.2	3.8	2.0	94.1		611
Total	0.7	4.2	2.8	92.3	100.0	3,711

Note: Data refer to only those couples in which both partners were tested. An asterisk indicates a figure that is based on fewer than 25 cases that has been suppressed. Totals include some cases with missing values.

# PREVALENCE OF HERPES AND HEPATITIS B

## 10.1 **KEY FINDINGS**

- Herpes simplex type 2 is widespread, with 44 percent of Ugandan adults aged 15-49 infected.
- Women (49 percent) are more likely to be infected with herpes than men (38 percent).
- Herpes infection rises rapidly with age; more than two-thirds of those in their 40s are infected.
- Of all couples in which at least one partner is infected with HSV-2, almost half (45 percent) are discordant.
- One in ten Ugandan adults is infected with hepatitis B; residents of Northeast and North Central regions are particularly affected.
- The likelihood of being infected with hepatitis B declines steadily with increasing education level and wealth quintile.

### 10.2 INTRODUCTION

Venous blood samples from adults were also tested for the herpes simplex type 2 virus (HSV-2) and for hepatitis B. Hepatitis B testing was done on only one-third of the adults for whom blood samples were obtained.

Although both herpes simplex type 1 and type 2 can cause oral or genital infections, HSV-1 is most commonly associated with oral infection, while HSV-2 causes predominantly genital infections. Since HSV-2 is almost exclusively sexually transmitted, its seroprevalence can be used as a marker of genital herpes (Stanberry and Rosenthal, 1999). Because it can cause genital ulcers, HSV-2 is also linked to increased risk of HIV transmission (Laeyendecker et al., 2004).

Because HSV-2 testing required a venous blood sample, the response rates were similar to those for syphilis.

# 10.3 HERPES PREVALENCE BY AGE AND SEX

Survey results indicate that herpes infection is widespread with close to half of Ugandan adults infected with herpes simplex type 2 (HSV-2). As shown in Table 10.1, 49 percent of women and 38 percent of men aged 15-49 are infected.

	Wor	nen	Me	n	Total		
Age	Percentage positive for herpes	Number tested	Percentage positive for herpes	Number tested	Percentage positive for herpes	Number tested	
15-19	20.6	1,963	17.8	1,879	19.2	3,841	
20-24	38.4	1,757	27.2	1,146	34.0	2,903	
25-29	49.6	1,612	36.9	1,092	44.5	2,704	
30-34	61.5	1,344	46.5	1,111	54.7	2,455	
35-39	68.9	998	53.4	847	61.8	1,846	
40-44	73.2	788	59.5	730	66.6	1,518	
45-49	75.1	608	62.2	516	69.2	1,124	
50-54	73.9	494	67.1	442	70.7	936	
55-59	72.6	310	62.5	317	67.5	627	
Total 15-49	48.8	9,070	37.9	7,321	43.9	16,391	
Total 15-59	50.8	9,874	40.4	8,079	46.1	17,953	

Prevalence of HSV-2 increases rapidly with age (Figure 10.1), from about 20 percent of those aged 15-19 to around two-thirds of those aged 40 and over.

Prevalence among women is higher than among men for every age group. By the time women reach their forties, three-fourths of them are infected with HSV-2.

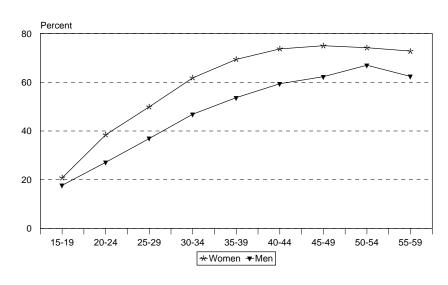


Figure 10.1 Herpes Prevalence by Sex and Age

UHSBS 2004-05

### 10.4 PREVALENCE OF HERPES BY BACKGROUND CHARACTERISTICS

As with syphilis infection, there is virtually no urban-rural difference in the level of infection with HSV-2. Central, East Central, and North Central regions all show levels of HSV-2 infection of about 50 percent. As with HIV and syphilis infection, West Nile region has the lowest level of HSV-2 infection, with only 29 percent of adults 15-49 infected.

HSV-2 prevalence declines with the level of education for both women and men, especially among those with at least some secondary education. It is also higher among those who are working (50 percent) than those who are not (34 percent). Infection with HSV-2 shows an inverted U shape with respect to wealth, with higher rates at the middle wealth quintiles.

Differences in HSV-2 infection by ethnic group show that the Batoro, Banyara, Langi, and Basoga ethnic groups are most affected, with 50 percent or more infected. The Lugbara/Madi are the least likely to have HSV-2 (29 percent), followed by the Karimojong (31 percent). Differences in infection by religion are minimal.

Table 10.2 Prevalence of herpes simplex type 2 by background characteristics, Uganda 2004-05 Women 15-49 Men 15-49 Total Percentage Percentage Percentage Background positive for Number positive for Number positive for Number characteristic herpes tested herpes tested herpes tested Residence Urban 49.7 1,322 34.8 1,042 43.1 2,364 Rural 48.7 7,748 38.4 6,279 44.1 14,027 Region Central 59.2 1,508 43.4 1,318 51.8 2,826 1,045 Kampala 46.2 566 31.4 479 39.4 53.9 2,515 East Central 1,448 41.2 1,066 48.5 Eastern 51.5 784 40.7 700 46.4 1,484 754 45.5 38.5 42.5 1,307 Northeast 553 North Central 52.6 873 41.8 708 47.8 1,582 West Nile 31.7 880 25.6 678 29.0 1,558 Western 49.5 1,045 41.8 878 46.0 1,922 35.7 Southwest 40.5 1,212 29.5 941 2,152 **Education** 53.6 2,068 42.6 613 51.1 2,680 No education 50.5 4,229 39.1 3,439 45.4 7,669 Primary incomplete 1,030 2,061 Primary complete 48.2 40.5 1,031 44.3 Secondary+ 39.3 1,727 33.5 2,230 36.0 3,956 **Employment** Currently working 54.7 5,567 43.8 5,067 49.5 10,634 Not working 39.7 3,434 24.6 2,176 33.8 5,610 Wealth quintile Lowest 45.6 1,483 36.4 1,124 41.6 2,607 Second 1,862 47.2 38.0 1,510 3,372 43.1 Middle 51.9 1,729 40.0 1,385 46.6 3,114 Fourth 50.3 1,845 42.4 1,521 46.7 3,367 Highest 48.7 2,150 33.2 1,780 41.7 3,930 **Ethnicity** 1,596 39.2 1,262 47.7 2,858 Baganda 54.5 1,696 Banyankore 48.7 938 36.3 758 43.2 50.9 592 42.8 482 47.3 1.074 Iteso Lugbara/Madi 30.7 722 26.2 553 28.7 1,275 50.0 55.9 876 1,548 Basoga 42.4 672 51.0 Langi 56.5 466 44.8 416 882 Bakiga 41.9 617 33.9 528 38.2 1,145 Karimojong 31.5 269 30.9 177 31.2 446 Acholi 49.0 439 38.1 323 44.4 762 850 409 441 Bagisu/Sabiny 51.7 39.8 45.5 Alur/Jopadhola 48.0 469 34.8 404 41.9 874 Banyara 56.6 295 49.6 243 53.4 538 Batoro 60.9 223 46.9 195 54.4 418 All others 1,113 819 42.3 1,932 46.9 36.0 Religion Catholic 47.8 3,784 38.9 3,074 6,857 43.8 Anglican/Protestant 51.7 3.076 38.5 2.673 45.6 5,750 Other Christian 49.4 798 36.4 496 44.4 1,294 Muslim 46.6 1,243 35.3 947 41.7 2,190 Other 100 31.9 74 39.2 174 44.6 Total 15-49 48.8 9,070 37.9 7,321 43.9 16,391 Total 15-59 9,874 40.4 8,079 17,953 50.8 46.1 Note: Totals include some cases with missing information.

### 10.5 PREVALENCE OF HERPES BY SOCIODEMOGRAPHIC CHARACTERISTICS

Table 10.3 shows that those who are widowed are the most likely to test positive for HSV-2 (78 percent), while those who have never been in union are the least likely (20 percent). Those who are currently in union (52 percent) and those who are divorced or separated (58 percent) have intermediate levels of HSV-2 infection. Because HSV-2 infection rises rapidly with age, some of the relationship with marital status may reflect this age pattern.

A significant finding is that 16 percent of those who have never had sex tested positive for HSV-2. Although some of these respondents might be underreporting their sexual experience, some may have been infected through means other than sexual intercourse. The possibility of testing errors needs to also be investigated.

Those who are in a polygynous union are more likely to be infected with herpes than those who are in a monogamous union (60 and 49 percent, respectively). It is disturbing to see that 44 percent of pregnant women have HSV-2, because the virus can cause severe problems at birth. There is little difference in HSV-2 infection levels by whether women received antenatal care for a birth in the three years preceding the survey or not or by whether men are circumcised or not.

	Women	15-49	Men 1	5-49	Total 1	5-49
Sociodemographic characteristic	Percentage positive for herpes	Number tested	Percentage positive for herpes	Number tested	Percentage positive for herpes	Numbe tested
Marital status						
Currently in union	54.0	5,803	48.9	3,887	51.9	9,691
Widowed <sup>1</sup>	79.1	543	69.0	94	77.6	637
Divorced/separated	64.0	716	50.3	484	58.4	1,200
Never in union	20.6	1,968	20.0	2,818	20.3	4,786
Ever had sex	29.5	770	22.6	1,541	24.9	2,311
Never had sex	14.9	1,198	16.9	1,278	16.0	2,475
Type of union						
In polygynous union	61.0	1,910	56.4	835	59.6	2,745
Not in polygynous union	50.6	3,894	46.8	3,052	48.9	6,945
Not currently in union	40.1	3,228	25.7	3,396	32.7	6,624
Currently pregnant						
Pregnant	43.9	1,038	na	na	na	na
Not pregnant/not sure	49.6	7,960	na	na	na	na
Birth in last 3 years						
None	48.3	4,657	na	na	na	na
Birth and ANC	49.4	3,767	na	na	na	na
Birth and no ANC	52.0	606	na	na	na	na
Male circumcision status						
Circumcised	na	na	37.3	1,819	37.3	1,819
Not circumcised	na	na	38.4	5,459	38.4	5,459
Total 15-49	48.8	9,070	37.9	7,321	43.9	16,391
Total 15-59	50.8	9,874	40.4	8,079	46.1	17,953

Note: Totals include a small number of cases with missing information.

ANC = antenatal care

na = Not applicable

<sup>&</sup>lt;sup>1</sup> The category 'widowed''consists of those who are not currently married and who had a previous spouse who died. It may be slightly overestimated to the extent that respondents who are currently divorced but previously widowed are considered widowed instead of divorced.

#### 10.6 PREVALENCE OF HERPES BY STI REPORTING

Table 10.4 shows that respondents who reported that they had a sexually transmitted infection (STI) or an STI symptom in the past 12 months were more likely to test positive for HSV-2 (61 percent) than those who reported having had no STI and no STI symptoms (45 percent). Nevertheless, the data show that many of those who have HSV-2 do not have any symptoms, a finding reflected in other studies (Stanberry and Rosenthal, 1999).

Table 10.4						
Prevalence of herpes sim symptom in the past 12 i				transmitte	d infection (	STI) or ST
	Women 1 ever ha		Men 15-4 ever ha		Total 15- ever ha	
STI status	Percentage positive for herpes	Number of women	Percentage positive for herpes	Number of men	Percentage positive for herpes	Number
Had STI or STI symptoms No STI, no symptoms	63.7 49.4	2,648 5,186	53.8 39.5	1,288 4,718	60.5 44.7	3,936 9,903
Total	54.2	7,833	42.6	6,006	49.2	13,839
STI = Sexually transmitted	infection					

# 10.7 PREVALENCE OF HERPES AMONG COHABITING COUPLES

Table 10.5 shows that among cohabiting couples in Uganda, for approximately one-third, neither partner has herpes, for another 40 percent, both partners have herpes, while the remaining 26 percent of couples are discordant, i.e., one partner is infected and the other is not. Looked at another way, of all couples in which one or both partners are infected with HSV-2, 40 percent are discordant. Discordance is about equally a result of the woman or the man being infected. For example, in 14 percent of couples, the woman is HSV-2-positive and the man is negative, while in 12 percent of couples, the man has HSV-2 and the woman does not.

Differences by background characteristics reflect those for HSV-2 prevalence discussed above. However, although HSV-2 infection does not differ by urban-rural residence, rural couples show a somewhat higher level of discordance than urban couples.

Background characteristic	Both partners have herpes	Man positive, woman negative	Woman positive, man negative	Neither partner has herpes	Total	Number
	пстрез	ricgative	negative	пстрез	Total	Number
Woman's age	22.0	47.0	44.4	40.0	400.0	242
15-19	22.8	17.3	11.1	48.8	100.0	212
20-29	30.5	15.1	13.6	40.8	100.0	1,628
30-39 40-59	47.9 55.4	9.1 8.4	13.6 14.8	29.3 21.4	100.0 100.0	1,144 681
	33. <del>4</del>	0.4	14.0	21. <del>4</del>	100.0	001
Man's age						
15-19	*	*	*	*	100.0	21
20-29	21.7	15.6	14.9	47.8	100.0	862
30-39	36.9	13.0	13.5	36.6	100.0	1,365
40-59	54.7	9.1	13.2	23.1	100.0	1,417
Type of union						
Monogamous	37.6	12.4	13.3	36.7	100.0	2,581
Polygynous	46.0	11.1	15.0	27.9	100.0	809
Couple disagrees on status	46.1	12.4	13.6	27.8	100.0	274
Residence						
Urban	45.7	6.6	16.6	31.2	100.0	308
Rural	39.6	12.6	13.4	34.3	100.0	3,357
Region						
Central	49.7	11.5	14.6	24.2	100.0	552
Kampala	44.8	6.9	15.9	32.4	100.0	98
East Central	42.7	12.6	16.9	27.8	100.0	559
Eastern	47.3	9.5	13.9	29.4	100.0	398
Northeast	34.9	13.3	15.6	36.3	100.0	367
North Central	42.1	13.2	13.1	31.6	100.0	399
West Nile	21.0	15.1	13.3	50.6	100.0	340
Western	42.7	12.6	12.9	31.8	100.0	481
Southwest	32.3	11.2	8.4	48.1	100.0	470
Woman's education						
No education	38.0	11.3	14.2	36.4	100.0	1,069
Primary incomplete	41.8	13.0	13.6	31.6	100.0	1,814
Primary complete	42.5	10.6	11.1	35.8	100.0	376
Secondary+	35.8	11.7	15.4	37.0	100.0	401
Man's education						
No education	38.1	12.2	15.1	34.6	100.0	444
Primary incomplete	40.9	12.6	12.7	33.8	100.0	1,766
Primary complete	40.9	10.8	13.2	35.0	100.0	624
Secondary+	38.8	12.0	15.5	33.7	100.0	820
Wealth quintile						
Lowest	35.0	12.9	15.5	36.6	100.0	637
Second	38.6	12.5	10.4	38.6	100.0	799
Middle	42.0	9.3	13.9	34.8	100.0	818
Fourth	42.9	14.7	13.4	28.9	100.0	803
Highest	41.3	11.2	16.3	31.3	100.0	608
Total	40.1	12.1	13.7	34.1	100.0	3,665

Note: Data refer to only those couples in which both partners were tested. An asterisk indicates a figure that is based on fewer than 25 cases that has been suppressed.

### 10.8 HEPATITIS B INFECTION

A random sample of roughly one-third of adults who provided venous blood samples were tested. This sample provided data for almost 6,000 respondents aged 15-59.

As shown in Table 10.6, 1 in 10 adults in Uganda is infected with hepatitis B. Overall rates are slightly higher for men than women (12 and 9 percent, respectively). There is surprisingly little variation in infection by age group.

Table 10.7 shows that rural respondents have slightly higher levels of hepatitis B infection (11 percent) Table 10.6 Prevalence of infection with hepatitis B by age and sex, Uganda 2004-05

	Wom	nen	Me	n	Tota	al
Age	Percentage positive for hepatitis B	Number tested	Percentage positive for hepatitis B	Number tested	Percentage positive for hepatitis B	Number tested
15-19	9.4	622	8.2	616	8.8	1,237
20-24	8.7	555	13.9	373	10.8	928
25-29	8.5	554	11.6	373	9.7	926
30-34	8.0	457	15.0	373	11.2	830
35-39	9.3	331	13.7	264	11.3	595
40-44	11.0	253	9.8	245	10.4	498
45-49	8.9	191	13.5	170	11.1	361
50-54	10.5	163	14.6	146	12.4	308
55-59	8.6	95	6.8	97	7.7	192
Total 15-49	9.0	2,961	11.8	2,413	10.2	5,375
Total 15-59	9.1	3,219	11.8	2,656	10.3	5,875

than urban residents (8 percent). With regard to regional differences, respondents in Northeast, North Central, and West Nile regions have considerably higher levels of infection than other respondents (24, 21, and 18 percent, respectively). Residents in Southwest region have the lowest infection rate of 4 percent. Kampala, East Central, Central, and Eastern regions all have lower than average levels of infection.

The likelihood of being infected with hepatitis B declines steadily with increasing education level and wealth quintile. For example, 16 percent of those in the lowest wealth quintile test positive for hepatitis B, compared with only 7 percent of those in the highest wealth quintile. The Karimojong, Langi, and Acholi are the most affected by hepatitis B, all having infection levels of more than 20 percent. The Lugbara/Madi and Iteso also have high levels of infection. Differences by religion are not large.

	Women	15-49	Men 1	5-49	Tot	al
Background characteristic	Percentage positive for hepatitis B	Number tested	Percentage positive for hepatitis B	Number tested	Percentage positive for hepatitis B	Numbe tested
Residence						
Urban	7.1	438	9.1	347	8.0	785
Rural	9.3	2,523	12.2	2,066	10.6	4,590
Region						
Central	5.5	485	6.2	449	5.8	935
Kampala	5.8	192	5.0	158	5.5	350
East Central	3.4	477	8.5	330	5.5	807
Eastern	4.8	264	8.8	233	6.7	497
Northeast	21.7	261	28.4	170	24.3	430
North Central	19.4	279	23.4	241	21.2	520
West Nile	18.7	272	18.1	228	18.4	500
Western	7.8	344	13.1	281	10.2	625
Southwest	2.9	388	5.3	321	4.0	710
Education						
No education	12.9	659	16.5	212	13.8	871
Primary incomplete	8.4	1,416	12.4	1,124	10.2	2,540
Primary complete	8.3	327	10.3	344	9.3	671
Secondary+	6.3	552	10.1	729	8.5	1,281
Employment						
Currently working	9.3	1,825	11.7	1,667	10.5	3,492
Not working	8.4	1,125	11.6	730	9.6	1,855
Wealth quintile		,				,
Lowest	14.5	485	17.6	360	15.8	845
Second	12.1	606	13.9	494	12.9	1,100
Middle	7.9	560	12.9	476	10.2	1,100
Fourth	6.1	619	9.5	485	7.6	1,104
Highest	5.9	692	7.5	598	6.6	1,289
8	0.5	03 <b>2</b>	, .5	550	0.0	.,200
Ethnicity	4.2	F10	4 5	420	4.4	0.43
Baganda	4.2 5.2	512	4.5 7.5	430 268	4.4 6.3	942
Banyankore Iteso	15.0	310	23.8		18.7	578 341
	18.4	198 231	19.8	143 180	19.0	411
Lugbara/Madi Basoga	2.4	295	6.5	202	4.1	497
Langi	20.5	149	23.0	147	21.8	296
Bakiga	3.9	197	8.1	179	5.9	376
Karimojong	29.3	89	28.3	59	28.9	148
Acholi	18.5	150	25.0	112	21.3	262
Bagisu/Sabiny	3.1	131	8.5	147	5.9	279
Alur/Jopadhola	8.5	169	15.3	126	11.4	295
Banyara	5.6	101	12.0	81	8.5	182
Batoro	5.9	71	5.3	57	5.7	128
All others	8.0	359	8.7	279	8.3	638
Religion						
Catholic	11.1	1,228	12.4	1,028	11.7	2,257
Anglican/Protestant	7.5	1,062	11.1	866	9.2	1,928
Other Christian	7.3	251	15.0	173	10.4	424
Muslim	7.3 5.9	384	8.3	308	6.9	692
Other	(29.1)	29	25.6	30	27.4	59
Total 15-49	9.0	2,961	11.8	2,413	10.2	5,375
Гotal 15-59	9.1	3,219	11.8	2,656	10.3	5,875

Note: Totals include some cases with missing information. Numbers in parentheses are based on 25-49 cases.

# REFERENCES

Agot, K.E., J.O. Ndinya-Achola, J.K. Kreiss, and N.S. Weiss. 2004. Risk of HIV-1 in rural Kenya: A comparison of circumcised and uncircumcised men. Epidemiology 15(2): 157-163.

Auvert, B., A. Buve, E. Lagarde, M. Kahindo, J. Chege, N. Rutenberg, R. Musonda, M. Laourou, E. Akam, and H.A. Weiss. 2001. Male circumcision and HIV infection in four cities in sub-Saharan Africa. AIDS Supplement 4: S31-S40.

Joint United Nations Programme on HIV/AIDS (UNAIDS) Epidemiology Reference Group Secretariat. 2005. UNAIDS Reference Group on Estimates, Modelling and Projections' statement on the use of BEDassay for the estimation of HIV-1 incidence for surveillance or epidemic monitoring. London: Imperial College.

Laeyendecker, O., C. Henson, R. Gray, R. Nguyen, B. Horne, M. Wawer, D. Serwadda, N. Kiwanuka, R. Morrow, W. Hogrefe, and T. Quinn. 2004. Performance of commercial, type-specific enzyme-linked immunosorbent assay for detection of herpes simplex virus type 2-specific antibodies in Ugandans. Journal of Clinical Microbiology 42(4): 1794-1796.

Ministry of Health (MOH) [Uganda]. 2003. STD/HIV/AIDS surveillance report. Kampala: Government of Uganda, Ministry of Health [STD/AIDS Control Programme].

Paxton, L.A., N. Kiwanuka, F. Nalugoda, R. Gray, and M.J. Wawer. 1998. Community-based study of treatment seekeing among subjects with symptoms of sexually transmitted disease in rural Uganda. British Medical Journal 317: 1630-1631.

Paxton, L.A., N. Sewankambo, M. Wawer, R. Gray, F. Wabwire-Mangen, D. Serwadda, D. McNairn, J. Konde-Lule, C. Li, N. Kiwanuka. 1996. Asymptomatic genital tract infections in a rural district of Uganda. Paper presented at the 11th International AIDS Conference, Vancouver, British Columbia 1996.

Rutstein, S. 1999. Wealth versus expenditure: Comparison between the DHS wealth index and household expenditures in four departments of Guatemala. Calverton, Maryland, USA: ORC Macro. (Unpublished)

Rutstein, S., and K. Johnson. 2004. The DHS wealth index. DHS Comparative Reports No. 6. Calverton, Maryland, USA: ORC Macro.

Rutstein, S., K. Johnson, and D. Gwatkin. 2000. Poverty, wealth inequality, and its health and demographic effects. Paper presented at the annual meeting of the Population Association of America March 23-25, 2000, Los Angeles, California.

Stanberry, L., and S. Rosenthal. 1999. The epidemiology of herpes simplex virus infections in adolescents. Herpes 1(6): 12-15.

Statistics Department [Uganda] and Macro International Inc. 1996. Uganda Demographic and Health Survey 1995. Calverton, Maryland: Statistics Department and Macro International Inc.

Uganda Bureau of Statistics (UBOS) and ORC Macro. 2001. Uganda Demographic and Health Survey 2000-2001. Calverton, Maryland, USA: Uganda Bureau of Statistics and ORC Macro.

World Health Orgnaization (WHO). 2004. National AIDS programmes: A guide to indicators for monitoring and evaluating national HIV prevention programmes for young people. Geneva, Switzerland: World Health Organization.

Yoder, P., A. Katahoire, and D. Kyaddondo. 2006. Offering counseling and HIV test results at home in a survey: The experience of Uganda. Calverton, Maryland, USA: ORC Macro. (Draft)

# PERSONS INVOLVED IN THE 2004-05 UGANDA **HIV/AIDS SERO-BEHAVIOURAL SURVEY**

# **Ministry of Health Staff**

Dr. Alex Opio, Assistant Commissioner Health Services and Survey Director Dr. Joshua Musinguzi, Senior Medical Officer and Deputy Survey Director Dr. Wilford Kirungi, Senior Epidemiologist and Deputy Survey Director

Dr. Isa Makumbi, Program Manager/UNEPI Dr. Zainab Akol, Senior Medical Officer Mr. Michael Muyonga, Behavioural Scientist Mr. Sam Eginyu, Senior Health Educator Mr. Noordin Mulumba, Statistician Dr. Patrick Tuyraguma, Operations Manager Mr. Tom Tenywa, Laboratory Technician

Mr. Henry Serwanga, Financial Controller Mr. Frank Turyomurugyendo, Accounts Assistant

Mr. Udara, Administrator

Ms. Jane Nabalonzi, Counselor Mr. Edison Nuwagaba, Data Manager Mr. Sulaiman Ikoba, Counselor Assistant

Ms. Frances Sharon, Receptionist Mr. Johnston Aliti, Office Attendant Ms. Florence Ainebyona, Filing Clerk Ms. Promise Mbonye, Secretary

## **Uganda Bureau of Statistics and Makerere University**

Mr. Male Mukasa, Executive Director, Uganda Bureau of Statistics Mr. James Muwonge, Uganda Bureau of Statistics Mr. Stephen Baryahirwa, Uganda Bureau of Statistics Ms. Helen Nviiri, Uganda Bureau of Statistics Mr. Fred Bateganya, Senior Lecturere, Makerere University Mr. Abraham Owino, Makerere University

## **Centers for Disease Control and Prevention**

Dr. Jonathan Mermin Dr. Robert Downing Dr. Rebecca Bunnell Ms. Winnie Wafula Dr. Frank Kaharuza Ms. Winnie Bikaako-Kajura Ms. Rose Apondi Mr. Vincent Ndazima Mr. Derrick Mimbe

# **Uganda Virus Research Institute**

Dr. Benon Biryahwaho Ms. Bakunda Kamaranzi Dr. Gerald Sebulime Ms. Mary Dutchi

# **World Health Organization**

Rosamund Lewis Dr. Miriam Nanyunja Dr. Baraka Makmot Dr. Bwogi

# **Uganda AIDS Commission**

Dr. Lucy Korukiko

# **Regional Supervisors**

Okello James Nsiko Israel Muyonga Michael Okello Denis Agaba Collins Sebulime Gerald Kagwa Adson Walusaga Kenneth

# **Team Supervisors**

Nyakana Ernest Nyende Hirome Ochom Nicholas Ojaku Matua Nelson Otim Samuel Otulo Bosco Senkuba Codfrey Shane Kyawe Kasimbi Willy Isabirye Farouk

# **Laboratory Technicians**

Kokunda Grace Kyahurwa Patrick Maziga John Mpima David Mwima Moses Were Nalweyiso Harriet Nandala Michael Nantongo Irene Viola Nyenje Henry Odokonyero Wilfred Okello Nelson Oola Denis Opio Moses Oryema David Rose

Saunders Winston Sengooba David Turyatemba Enoch **Tusabe Harrison** Waibi William

Alonzi Francis

Ayebazibwe Nicholas Byaino Jonathan Katikajira Hamidu Kibedi Godfrey Konven Joseph Kusemererwa Patrick Lunyolo Stella Maris Mwanje Edward Nalweyiso Norah

Acidri Gordon

Aiga Joseph Alule Charles

Amony Esther Ochora

Apak Lino

Asigaci Abraham Asingwire Julius Baguma Herbert Baguma John Henry Burunga Thelma Kateeba Byamukama Solomon Ekalu Jonathan Ekotu Gilbert Eliatu Tom

Embama Bindu Angelo Isabirye Richard Kakooza Godfrey Kateeba Ruth Kembabazi Christine

Kiisa Silvia

#### **Interviewers**

Maedero Samuel Acham Samalie Aciro Theresa Odong Mbabazi Peter Adikin Evelyne Mukasa Charles

Mukasa Joseph Kalibonga Akello Teddy Akurut Susan Mumbe Lawrence Munaaba Nightingale Aneecho Maurine Anek Helen Munduru Joy Apio Freda Musisi Gimei Fred Asiolea Silvano Mwesigwa Alex Mwesigye Godfrey Awio Florence Naiga Florence Awor Christine Ayagalwa Justine Najuma Teddy Balwaine Erieza Katawera Nakintu Betty

Barungi Alfred Nakitandwe Juliet Bayenda Pamela Namusoko Sarah Bazaale Jennifer Nangira Evelyn Bazira Henry Nantume Josephine Nanyonga Lilian Bigirwa Patrick Birungi Betty Naziwa Veronica Bizimana Abel Ndiri Bayo Rome **Busingye Jones** Nyakuni Tophas Christine Ae Dezu Ochen Ochero

Dralega Modest Ogen Robert Ekisa Geofrey Okengere Christopher Etoori Michael Okidi Josephine Isabirye Farouk Okot Jino

Iyogil Consolata Okwi John Richard Kabugo Timothy Ondoga Simon Kaddu Nelson Ongaba Patrick Kaganda Wilson Opoka Kenneth Opolot Okwi Christine Kamagaju Judith

Kasimbi Willy Otim Joseph James Kazigo Winfred Senkungu Lawrence Kemigisha Juliet Sensalire Simon Kiboli Grace Serunkuma Betty Kisakye Elizabeth Tusiime Patrick Kiwanuka Layton Tusubira Brenda Kusolo Loyce Wagera Ann Mary Kyobutungi Maude Wagoleire Chris Lubowa Edward Wangira Denis Luzinda Michael Wanican Genaro

Maanimake Elizabeth

## **ORC Macro**

Mr. Martin Vaessen Dr. Fred Arnold Ms. Anne Cross Ms. Jasbir Sangha Mr. Glen Heller Ms. Joy Fishel Mr. Dean Garrett

Mr. Noureddine Abderrahim

Dr. Sidney Moore Ms. Kaye Mitchell



The estimates from a sample survey are affected by two types of errors: 1) nonsampling errors, and 2) sampling errors. Nonsampling errors are the results of mistakes made in implementing data collection and data processing, such as failure to locate and interview the correct household, misunderstanding of the questions on the part of either the interviewer or the respondent, and data entry errors. Although numerous efforts were made during the implementation of the 2004-05 Uganda HIV/AIDS Sero-Behavioural Survey (UHSBS) to minimise this type of error, nonsampling errors are impossible to avoid completely and difficult to evaluate statistically.

Sampling errors, on the other hand, can be evaluated statistically. The sample of respondents selected in the 2004-05 UHSBS is only one of many samples that could have been selected from the same population, using the same design and expected size. Each of these samples would yield results that differ somewhat from the results of the actual sample selected. Sampling errors are a measure of the variability between all possible samples. Although the degree of variability is not known exactly, it can be estimated from the survey results.

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

If the sample of respondents had been selected as a simple random sample, it would have been possible to use straightforward formulas for calculating sampling errors. However, the 2004-05 UHSBS sample is the result of a multi-stage stratified design, and, consequently, it was necessary to use more complex formulas. The computer software used to calculate sampling errors for the 2004-05 UHSBS is the ISSA Sampling Error Module. This module used the Taylor linearisation method of variance estimation for survey estimates that are means or proportions.

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

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

in which

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

represents the stratum which varies from 1 to H, where his the total number of clusters selected in the  $h^{th}$  stratum.

is the sum of the weighted values of variable y in the  $i^{th}$  cluster in the  $h^{th}$  stratum,  $y_{hi}$ is the sum of the weighted number of cases in the  $i^{th}$  cluster in the  $h^{th}$  stratum, and  $\chi_{hi}$ is the overall sampling fraction, which is so small that it is ignored. f

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

Sampling errors for the 2004-05 UHSBS are calculated for selected variables considered to be of primary interest. The results are presented in this appendix for the country as a whole, for urban and rural areas, and for each of the 9 regions. For each variable, the type of statistic (mean, proportion, or rate) and the base population are given in Table B.1. Tables B.2 to B.13 present the value of the statistic (R), its standard error (SE), the number of unweighted (N-UNWE) and weighted (N-WEIG) cases, the design effect (DEFT), the relative standard error (SE/R), and the 95 percent confidence limits (R±2SE), for each variable. The DEFT is considered undefined when the standard error considering simple random sample is zero (when the estimate is close to 0 or 1).

The confidence interval (e.g., as calculated for condom use at last higher-risk sex) can be interpreted as follows: the overall proportion from the national sample for women 15-49 who reported using a condom at last high-risk sex is 0.467 and its standard error is 0.017. Therefore, to obtain the 95 percent confidence limits, one adds and subtracts twice the standard error to the sample estimate, i.e., 0.467±2×0.017. There is a high probability (95 percent) that the true proportion of women who had used a condom at last higher-risk sex is between 0.433 and 0.502.

Sampling errors are analysed for the national sample of women and men. The relative standard errors (SE/R) at the national level range between 1 percent and 38.5 percent. The highest relative standard errors are for estimates of very low values (e.g., care and support for orphans and vulnerable children). If estimates of very low values (less than 10 percent) were removed, then the average drops to 3 percent. So in general, the relative standard error for most estimates for the country as a whole is small, except for estimates of very small proportions.

For the total sample, the value of the design effect (DEFT), averaged over all variables, is 1.33 which means that, because of multi-stage clustering of the sample, the average standard error is increased by a factor of 1.33 over that in an equivalent simple random sample.

Variable	Estimate	Base population
Urban residence	Proportion	All women/men 15-49
No education	Proportion	All women/men 15-49
Secondary or higher education	Proportion	All women/men 15-49
Never married (in union)	Proportion	All women/men 15-49
Currently married (in union)	Proportion	All women/men 15-49
Using any contraceptive method	Proportion	Currently married women 15-49
Using a modern method	Proportion	Currently married women 15-49
Comprehensive knowledge <sup>1</sup> of HIV transmission - all	Proportion	Women/men 15-49
Comprehensive knowledge <sup>1</sup> of HIV transmission - youth	Proportion	Women/men 15-24
Had sex before age 18	Proportion	All women/men 18-24
Had two or more sexual partners in past 12 months	Proportion	Women/men 15-49 who had sex in the past 12 months
Had higher-risk sex (with a nonmarital,	•	·
noncohabiting partner) in the past 12 months	Proportion	Women/men 15-49 who had sex in the past 12 months
Condom use at last higher-risk sex - all	Proportion	Women/men 15-49 who had higher-risk sex in past 12 months
Condom use at last higher-risk sex - youth	Proportion	All women/men 15-24 who had higher-risk sex in past 12 months
Abstinence among youth (never had sex)	Proportion	Never-married women/men 15-24
Sexual activity in past 12 months among never-		
married youth	Proportion	Never-married women/men 15-24
Had medical injections in past 12 months	Proportion	All women/men 15-49
Had HIV test in past 12 months and received results		
last time	Proportion	All women/men 15-49
Accepting attitudes <sup>2</sup> towards people with HIV	Proportion	All women/men 15-49 who have heard of HIV/AIDS
Care and support for adults (received all types of free,		
basic external support)	Proportion	Adults age 18-59 who were ill for 3 or more months in the past
		12 months and adults 18-59 who died in the past 12 months
		and were ill for 3 or more months before death
Care and support for orphans and vulnerable children	_	
(received all types <sup>3</sup> of free, basic external support)	Proportion	Children 0-17 whose mother or father died or who live in a
		household in which a person age 18-59 was ill for 3 or more
		months in the past 12 months or in which a person age 18-59
		died in the past 12 months
HIV prevalence	Proportion	All women/men 15-49 who were tested for HIV
Syphilis prevalence	Proportion	All women/men 15-49 who were tested for syphilis

<sup>&</sup>lt;sup>1</sup> Percentage who say that people can reduce the risk of getting the AIDS virus by using a condom every time they have sex and by having sex with just one partner who is not infected and who has no other partners, and who say that people cannot get the AIDS virus from mosquito

bites or from sharing food with a person who has AIDS, and who say that a healthy-looking person can have the AIDS virus

<sup>2</sup> Percentage who say they would be willing to care for a relative sick with AIDS in their own households and would be willing to buy sugar, fresh vegetables, or other food from a market vendor who had the AIDS virus and they think that a female teacher who has the AIDS virus but is not sick should be allowed to continue teaching, and that if a member of their family got infected with the virus that causes AIDS, they would not necessarily want it to remain secret

<sup>&</sup>lt;sup>3</sup> Refers to all five types of support for those age 5-17, four types of support (excluding school) for those age 0-4

		Stand-	Number	of cases		Rela-		
	Value	ard error	Un- weighted	Weight- ed	Design effect	tive error	Confide	nce limits
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	R-2SE	R+2SE
		WOME	Ν					
Jrban residence	0.152	0.005	9973	9941	1.266	0.030	0.143	0.161
No education	0.227	0.009	9973	9941	2.097	0.039	0.209	0.244
With secondary education or higher	0.197	0.007	9973	9941	1.781	0.036	0.183	0.211
Never married (in union)	0.223	0.006	9973	9941	1.403	0.026	0.212	0.235
Currently married (in union)	0.640	0.007	9973	9941	1.363	0.010	0.626	0.653
Currently using any contraceptive method	0.197	0.007 0.007	6406 6406	6358 6358	1.466	0.037 $0.038$	0.183 0.173	0.212 0.201
Eurrently using a modern method Had first sex before age 18	0.187 0.627	0.007	2792	2754	1.467 1.118	0.036	0.173	0.201
Had two or more sexual partners in past	0.027	0.010	2/92	2/34	1.110	0.010	0.000	0.047
12 months	0.038	0.003	7345	7376	1.291	0.076	0.032	0.044
Had higher risk sex in the past 12 months	0.050	0.005	7346	7376	1.235	0.074	0.143	0.163
Condom use at last high risk sex - all	0.467	0.017	1061	1128	1.127	0.037	0.433	0.502
Condom use at last high risk sex (15-24)	0.529	0.021	610	636	1.035	0.040	0.487	0.571
Comprehensive knowledge of HIV		•						•
transmission - all	0.283	0.007	9973	9941	1.493	0.024	0.269	0.296
Comprehensive knowledge of HIV								
transmission - youth	0.295	0.009	4121	4119	1.320	0.032	0.276	0.314
Abstinence among youth (never had sex)	0.642	0.012	2057	2049	1.179	0.019	0.617	0.667
Sexual activity in past 12 months (never-								
married youth)	0.244	0.011	2057	2049	1.201	0.047	0.221	0.266
Had medical injections in past 12 months	0.513	0.008	9973	9941	1.648	0.016	0.496	0.529
Had HIV test and received results last time	0.040	0.002	9973	9941	1.269	0.062	0.035	0.045
Accepting attitudes towards people with HIV	0.187	0.007	9787	9801	1.815	0.038	0.173	0.201
HIV prevalence	0.075	0.004	9365	9328	1.318	0.050	0.068	0.083
Syphilis prevalence	0.031	0.002	9025	8992	1.086	0.065	0.027	0.036
		MEN						
Urban residence	0.150	0.005	8009	8010	1.138	0.030	0.141	0.159
No education	0.083	0.005	8009	8010	1.694	0.063	0.073	0.094
With secondary education or higher	0.309	0.009	8009	8010	1.749	0.029	0.291	0.327
Never married (in union)	0.392	0.007	8009	8010	1.225	0.017	0.379	0.405
Currently married (in union)	0.529	0.007	8009	8010	1.281	0.014	0.515	0.543
Had first sex before age 18	0.467	0.014	2027	2032	1.230	0.029	0.440	0.495
Had two or more sexual partners in last	0.202	0.007	F.C.20	F.C.2.2	1 200	0.025	0.270	0.200
12 months	0.293	0.007	5639	5623	1.209	0.025	0.279	0.308
Had higher risk sex in the past 12 months	0.366	0.008	5644	5628	1.277	0.022	0.350	0.383
Condom use at last high risk sex - all Condom use at last high risk sex (15-24)	0.534 0.551	0.013 0.019	1988 990	2062 1016	1.178 1.190	0.025 0.034	0.507 0.513	0.560 0.589
Comprehensive knowledge of HIV	0.551	0.019	330	1010	1.190	0.034	0.515	0.509
transmission - all	0.358	0.007	8009	8010	1.357	0.020	0.344	0.373
Comprehensive knowledge of HIV transmission -	0.550	0.007	0003	0010	1.557	0.020	0.544	0.575
youth	0.353	0.010	3303	3332	1.224	0.029	0.333	0.374
Abstinence among youth (never had sex)	0.499	0.013	2744	2776	1.356	0.025	0.333	0.525
Sexual activity in past 12 months (never-		0.0		, ,				5-5
married youth)	0.301	0.011	2744	2776	1.269	0.037	0.279	0.323
Had medical injections in past 12 months	0.379	0.007	8009	8010	1.381	0.020	0.364	0.394
Had HIV test and received results last time	0.038	0.003	8009	8010	1.278	0.072	0.032	0.043
Accepting attitudes towards people with HIV	0.282	0.007	7904	7939	1.347	0.024	0.268	0.295
HIV prevalence	0.050	0.003	7433	7436	1.307	0.067	0.043	0.057
Syphilis prevalence	0.031	0.002	7215	7217	1.003	0.067	0.027	0.035
	WO	MEN AN	D MEN					
Care and support for adults	0.008	0.003	1009	992	0.956	0.361	0.002	0.014
Care and support for orphans and	0.000	0.004	F044	4054	1 170	0.205	0.000	0.004
vulnerable children	0.002	0.001	5011	4954	1.176	0.385	0.000	0.004

		Cı I	Number	of cases		D. I		
/ariable	Value (R)	Stand- ard error (SE)	Un- weighted (N)	Weight- ed (WN)	Design effect (DEFT)	Rela- tive error (SE/R)	Confide R-2SE	nce limits R+2SE
valiable	(K)			(۷۷۱۹)	(DLIT)	(3L/K)	K-23L	K+23L
		WOME	.N					
Jrban residence	1.000	0.000	1827	1508	na	0.000	1.000	1.000
No education With secondary education or higher	0.064 0.512	0.006 0.019	1827 1827	1508 1508	1.111 1.618	0.100 0.037	0.051 0.474	0.076 0.550
Never married (in union)	0.348	0.019	1827	1508	1.357	0.037	0.474	0.330
Currently married (in union)	0.485	0.015	1827	1508	1.337	0.043	0.454	0.517
Currently using any contraceptive method	0.413	0.021	869	732	1.235	0.050	0.372	0.455
Currently using a modern method	0.397	0.021	869	732	1.266	0.053	0.354	0.439
Had first sex before age 18	0.621	0.020	622	494	1.028	0.032	0.581	0.661
Had two or more sexual partners in past								
12 months	0.058	0.007	1231	1024	0.995	0.115	0.045	0.071
Had higher risk sex in the past 12 months	0.290	0.014	1231	1024	1.070	0.048	0.262	0.317
Condom use at last high risk sex - all	0.647	0.033	374	297	1.333	0.051	0.581	0.713
Condom use at last high risk sex (15-24)	0.669	0.033	223	174	1.043	0.049	0.603	0.734
Comprehensive knowledge of HIV	0.463	0.012	1027	1500	1.041	0.026	0.420	0.400
transmission - all Comprehensive knowledge of HIV	0.463	0.012	1827	1508	1.041	0.026	0.439	0.488
Comprehensive knowledge of HIV transmission - youth	0.460	0.021	892	725	1.268	0.046	0.418	0.503
Abstinence among youth (never had sex)	0.498	0.021	561	454	1.028	0.044	0.454	0.541
Sexual activity in past 12 months (never-	0.150	0.022	301	131	1.020	0.011	0.151	0.511
married youth)	0.331	0.022	561	454	1.085	0.065	0.288	0.374
Had medical injections in past 12 months	0.540	0.017	1827	1508	1.455	0.031	0.506	0.574
Had HIV test and received results last time	0.089	0.008	1827	1508	1.127	0.084	0.074	0.104
Accepting attitudes towards people with HIV	0.248	0.016	1822	1505	1.583	0.065	0.216	0.280
HIV prevalence	0.128	0.008	1650	1423	0.936	0.061	0.113	0.144
Syphilis prevalence	0.023	0.007	1513	1345	1.728	0.284	0.010	0.037
		MEN						
Jrban residence	1.000	0.000	1387	1200	na	0.000	1.000	1.000
No education	0.014	0.003	1387	1200	0.840	0.189	0.009	0.019
With secondary education or higher	0.625	0.030	1387	1200	2.304	0.048	0.565	0.685
Never married (in union)	0.491	0.018	1387	1200	1.346	0.037	0.455	0.527
Currently married (in union)	0.424	0.016	1387	1200	1.173	0.037	0.393	0.455
Had first sex before age 18	0.448	0.025	443	374	1.043	0.055	0.399	0.497
Had two or more sexual partners in past								
12 months	0.344	0.020	918	804	1.275	0.058	0.304	0.384
Had higher risk sex in the past 12 months	0.526	0.015	919	806	0.926	0.029	0.496	0.557
Condom use at last high risk sex - all	0.737	0.020	495	424	0.994	0.027	0.698	0.777
Condom use at last high risk sex (15-24)	0.705	0.029	231	201	0.961	0.041	0.648	0.763
Comprehensive knowledge of HIV	0.534	0.040	1207	1200	1 227	0.034	0.405	0.553
transmission - all	0.521	0.018	1387	1200	1.327	0.034	0.485	0.557
Comprehensive knowledge of HIV	0.470	0.022	615	516	1 002	0.045	0.425	0.521
transmission - youth Abstinence among youth (never had sex)	0.478 0.409	0.022 0.030	645 567	546 481	1.093 1.458	0.045 0.074	0.435 0.349	0.521 0.469
Sexual activity in past 12 months (never-	0.403	0.030	307	701	1.730	0.0/4	U.J#3	0.403
married youth)	0.337	0.025	567	481	1.264	0.074	0.287	0.388
Had medical injections in past 12 months	0.380	0.018	1387	1200	1.384	0.048	0.344	0.416
Had HIV test and received results last time	0.085	0.010	1387	1200	1.343	0.119	0.065	0.105
Accepting attitudes towards people with HIV	0.355	0.015	1385	1199	1.158	0.042	0.325	0.384
HIV prevalence	0.067	0.008	1214	1084	1.151	0.128	0.049	0.083
Syph <mark>ilis prevalence</mark>	0.029	0.006	1148	1045	1.191	0.203	0.017	0.041
	WO	MEN AN	D MEN					
Care and support for adults	0.037	0.019	123	102	1.003	0.506	0.000	0.075
Care and support for orphans and vulnerable children	0.000	0.000	772	640	na	na	0.000	0.000

		Stand-	Number	of cases		Rela-		
	Value	ard error	Un- weighted	Weight- ed	Design effect	tive error	Confide	nce limits
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	R-2SE	R+2SE
		WOME	N					
Urban residence	0.000	0.000	8146	8433	na	na	0.000	0.000
No education	0.256	0.010	8146	8433	2.130	0.040	0.235	0.277
With secondary education or higher	0.140	0.007	8146	8433	1.942	0.053	0.125	0.155
Never married (in union)	0.201	0.006	8146	8433	1.407	0.031	0.189	0.214
Currently married (in union)	0.667	0.007	8146	8433	1.363	0.011	0.653	0.681
Currently using any contraceptive method	0.169 0.160	0.008 0.007	553 <i>7</i> 553 <i>7</i>	5626 5626	1.498 1.498	0.045 0.046	0.154 0.145	0.184 0.175
Currently using a modern method Had first sex before age 18	0.628	0.007	2170	2260	1.124	0.040	0.604	0.173
Had two or more sexual partners in past	0.020	0.012	2170	2200	1.127	0.013	0.004	0.031
12 months	0.035	0.003	6114	6352	1.353	0.091	0.028	0.041
Had higher risk sex in the past 12 months	0.033	0.006	6115	6353	1.298	0.043	0.120	0.142
Condom use at last high risk sex - all	0.403	0.021	687	832	1.103	0.051	0.362	0.445
Condom use at last high risk sex (15-24)	0.477	0.027	387	462	1.054	0.056	0.423	0.530
Comprehensive knowledge of HIV		,	20.				=0	555
transmission - all	0.250	0.008	8146	8433	1.610	0.031	0.235	0.266
Comprehensive knowledge of HIV	= =			=	=	•		
transmission - youth	0.260	0.011	3229	3393	1.387	0.041	0.238	0.281
Abstinence among youth (never had sex)	0.683	0.015	1496	1595	1.216	0.021	0.654	0.713
Sexual activity in past 12 months (never-								
married youth)	0.219	0.013	1496	1595	1.250	0.061	0.192	0.245
Had medical injections in past 12 months	0.508	0.009	8146	8433	1.668	0.018	0.489	0.526
Had HIV test and received results last time	0.032	0.003	8146	8433	1.362	0.084	0.026	0.037
Accepting attitudes towards people with HIV	0.176	0.008	7965	8296	1.853	0.045	0.160	0.192
HIV prevalence	0.065	0.004	7715	7905	1.418	0.063	0.058	0.074
Syphilis prevalence	0.033	0.002	7512	7646	0.992	0.064	0.029	0.037
		MEN						
Urban residence	0.000	0.000	6622	6809	na	na	0.000	0.000
No education	0.096	0.006	6622	6809	1.706	0.064	0.083	0.108
With secondary education or higher	0.254	0.009	6622	6809	1.696	0.036	0.235	0.272
Never married (in union)	0.375	0.007	6622	6809	1.224	0.019	0.360	0.389
Currently married (in union)	0.548	0.008	6622	6809	1.317	0.015	0.531	0.564
Had first sex before age 18	0.472	0.016	1584	1658	1.253	0.033	0.440	0.503
Had two or more sexual partners in past								
12 months	0.285	0.008	4721	4819	1.198	0.028	0.269	0.301
Had higher risk sex in the past 12 months	0.340	0.009	4725	4822	1.346	0.027	0.321	0.358
Condom use at last high risk sex - all	0.481	0.016	1493	1638	1.212	0.033	0.449	0.512
Condom use at last high risk sex (15-24)	0.513	0.022	759	815	1.237	0.044	0.468	0.558
Comprehensive knowledge of HIV		0			4.0==	0.00	0.0	
transmission - all	0.330	0.008	6622	6809	1.376	0.024	0.314	0.346
Comprehensive knowledge of HIV	0.222	0.011	0.050	070-	4 0 4 =	0.00=	0.200	0.3=1
transmission - youth	0.329	0.011	2658	2785	1.247	0.035	0.306	0.351
Abstinence among youth (never had sex)	0.518	0.014	2177	2295	1.337	0.028	0.489	0.547
Sexual activity in past 12 months (never-	0.204	0.012	2177	2205	1 260	0.042	0.260	0.318
married youth)	0.294	0.012 0.008	2177	2295 6809	1.268	0.042 0.022	0.269	
Had medical injections in past 12 months Had HIV test and received results llast time	0.379		6622		1.377		0.363	0.396 0.035
	0.030	0.003	6622	6809 6740	1.272	0.089	0.024	0.035
Accepting attitudes towards people with HIV HIV prevalence	0.269 0.048	0.008 0.004	6519 6219	6740 6352	1.380 1.334	0.028 0.076	0.254 0.040	0.284
FIIV prevalence Syphilis prevalence	0.048	0.004	6067	6352	0.972	0.076	0.040	0.035
лурппы ртечаютсе 				01/4	0.372	0.071	0.04/	0.030
	WO	MEN AN	D MEN					
Care and support for adults	0.005	0.002	886	890	1.005	0.506	0.000	0.009
Care and support for orphans and vulnerable children	0.002	0.001	4239	4314	1.150	0.385	0.001	0.004

		C+l	Number	of cases		D-I-		
	Value	Stand- ard error	Un- weighted	Weight- ed	Design effect	Rela- tive error		nce limits
Variable	(R)	(SE)	(Ň)	(WN)	(DEFT)	(SE/R)	R-2SE	R+2SE
		WOME	N					
Urban residence	0.150	0.015	942	1656	1.306	0.102	0.119	0.180
No education	0.103	0.019	942	1656	1.930	0.186	0.065	0.141
With secondary education or higher Never married (in union)	0.286 0.267	0.023 0.016	942 942	1656 1656	1.548 1.111	$0.080 \\ 0.060$	0.241 0.235	0.332 0.299
Currently married (in union)	0.566	0.018	942	1656	1.111	0.032	0.233	0.603
Currently using any contraceptive method	0.286	0.022	537	937	1.108	0.076	0.242	0.329
Currently using a modern method	0.267	0.021	537	937	1.112	0.080	0.225	0.310
Had first sex before age 18	0.741	0.031	255	449	1.133	0.042	0.679	0.804
Had two or more sexual partners in past								
12 months	0.067	0.011	705	1235	1.209	0.169	0.045	0.090
Had higher risk sex in the past 12 months	0.266	0.018	705	1235	1.053	0.066	0.231	0.301
Condom use at last high risk sex - all	0.506	0.038	185	329	1.033	0.075	0.430	0.582
Condom use at last high risk sex (15-24)	0.546	0.044	98	174	0.868	0.080	0.458	0.634
Comprehensive knowledge of HIV	0.456	0.000	0.43	1656	1 200	0.040	0.440	0.504
transmission - all	0.456	0.023	942	1656	1.389	0.049	0.410	0.501
Comprehensive knowledge of HIV	0.459	0.031	414	730	1.259	0.067	0.397	0.520
transmission - youth Abstinence among youth (never had sex)	0.439	0.031	230	406	0.907	0.055	0.397	0.520
Sexual activity in past 12 months (never-	0.555	0.030	230	400	0.507	0.033	0.473	0.555
married youth)	0.304	0.030	230	406	0.975	0.097	0.245	0.363
Had medical injections in past 12 months	0.515	0.024	942	1656	1.467	0.046	0.467	0.563
Had HIV test and received results last time	0.046	0.007	942	1656	1.009	0.150	0.032	0.060
Accepting attitudes towards people with HIV	0.200	0.017	939	1650	1.299	0.085	0.166	0.234
HIV prevalence	0.104	0.011	856	1543	0.991	0.102	0.083	0.126
Syphilis prevalence	0.041	0.007	837	1489	1.070	0.181	0.026	0.055
		MEN						
Urban residence	0.147	0.011	844	1451	0.933	0.077	0.124	0.170
No education	0.083	0.011	844	1451	1.294	0.148	0.058	0.170
With secondary education or higher	0.322	0.031	844	1451	1.920	0.096	0.260	0.384
Never married (in union)	0.448	0.015	844	1451	0.897	0.034	0.417	0.479
Currently married (in union)	0.457	0.017	844	1451	1.002	0.038	0.422	0.491
Had first sex before age 18	0.453	0.031	242	418	0.958	0.068	0.391	0.514
Had two or more sexual partners in past								
12 months	0.380	0.023	569	980	1.115	0.060	0.335	0.426
Had higher risk sex in the past 12 months	0.501	0.026	569	980	1.247	0.052	0.449	0.553
Condom use at last high risk sex - all	0.681	0.032	283	491	1.138	0.046	0.618	0.744
Condom use at last high risk sex (15-24)	0.692	0.051	132	231	1.253	0.073	0.591	0.793
Comprehensive knowledge of HIV	0.443	0.000	0.4.4	1 4 - 1	1 1 4 2	0.044	0.402	0.404
transmission - all	0.442	0.020	844	1451	1.142	0.044	0.403	0.481
Comprehensive knowledge of HIV	0.406	0.020	276	640	1 101	0.074	0.245	0.466
transmission - youth Abstinence among youth (never had sex)	0.406 0.456	0.030 0.029	376 314	649 540	1.191 1.01 <i>7</i>	0.074 0.063	0.345 0.399	0.466 0.514
Sexual activity in past 12 months (never-	0.730	0.023	J 14	J <del>+</del> U	1.01/	0.003	0.555	0.514
married youth)	0.314	0.029	314	540	1.104	0.092	0.256	0.372
Had medical injections in past 12 months	0.394	0.020	844	1451	1.179	0.050	0.354	0.434
Had HIV test and received results last time	0.033	0.006	844	1451	0.960	0.179	0.021	0.045
Accepting attitudes towards people with HIV	0.241	0.019	844	1451	1.258	0.077	0.204	0.278
HIV prevalence	0.064	0.009	762	1350	0.974	0.137	0.046	0.081
Syphilis prevalence	0.029	0.005	743	1309	0.860	0.186	0.018	0.040
	WO	MEN AN	D MEN					
Care and support for adults	0.000	0.000	92	159	na	na	0.000	0.000
Care and support for orphans and vulnerable children	0.004	0.003	508	891	0.966	0.696	0.000	0.009

			Number	of cases				
/	Value	Stand- ard error	Un- weighted	Weight-	Design effect	Rela- tive error		nce limits R+2SE
√ariable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	R-2SE	K+25E
		WOME	Ν					
Jrban residence	1.000	0.000	1099	668	na	0.000	1.000	1.000
No education	0.044	0.005	1099	668	0.810	0.114	0.034	0.054
With secondary education or higher	0.591	0.022	1099	668	1.511	0.038	0.546	0.635
Never married (in union)	0.394 0.448	0.025 0.025	1099 1099	668 668	1.706 1.640	0.064 0.055	0.344 $0.398$	0.444 0.497
Currently married (in union) Currently using any contraceptive method	0.448	0.025	492	299	1.122	0.053	0.379	0.497
Currently using a modern method	0.429	0.023	492	299	1.175	0.063	0.379	0.469
Had first sex before age 18	0.606	0.020	401	244	1.237	0.050	0.546	0.666
Had two or more sexual partners in past	0.000	0.050			1.237	0.050	0.5 10	0.000
12 months	0.073	0.012	736	448	1.300	0.170	0.048	0.098
Had higher risk sex in the past 12 months	0.346	0.022	736	448	1.249	0.063	0.303	0.390
Condom use at last high risk sex - all	0.663	0.025	255	155	0.848	0.038	0.612	0.713
Condom use at last high risk sex (15-24)	0.643	0.032	157	95	0.827	0.049	0.580	0.707
Comprehensive knowledge of HIV	0 ===		4655		40	0.000		0 == :
transmission - all	0.525	0.016	1099	668	1.041	0.030	0.494	0.556
Comprehensive knowledge of HIV	0.546	0.000		220	0.055	0.000	0.476	0
transmission - youth	0.516	0.020	558	339	0.955	0.039	0.476	0.557
Abstinence among youth (never had sex)	0.449	0.025	363	221	0.972	0.057	0.398	0.500
Sexual activity in past 12 months (never- married youth)	0.364	0.031	363	221	1.218	0.085	0.302	0.425
Had medical injections in past 12 months	0.304	0.031	1099	668	1.063	0.033	0.302	0.520
Had HIV test and received results last time	0.094	0.010	1099	668	1.140	0.107	0.074	0.114
Accepting attitudes towards people with HIV	0.203	0.015	1096	666	1.226	0.074	0.173	0.232
HIV prevalence	0.117	0.014	959	630	1.281	0.119	0.090	0.146
Syphilis prevalence	0.019	0.004	862	611	0.779	0.194	0.011	0.026
<u> </u>		MEN						
	4.000		044			0.000	4.000	4.000
Urban residence	1.000	0.000	811	547	na	0.000	1.000	1.000
No education	0.016	0.004	811	547	0.933	0.257	0.008	0.024
With secondary education or higher	0.670	0.024	811 811	547 547	1.476 1.533	0.036 0.051	0.621 0.473	0.718 0.580
Never married (in union) Currently married (in union)	0.527 0.372	0.027 0.025	811	547 547	1.333	0.066	0.473	0.360
Had first sex before age 18	0.372	0.023	270	182	1.138	0.000	0.365	0.502
Had two or more sexual partners in past	0.433	0.054	270	102	1.150	0.075	0.505	0.302
12 months	0.346	0.020	537	362	0.993	0.059	0.306	0.387
Had higher risk sex in the past 12 months	0.607	0.025	537	362	1.199	0.042	0.557	0.658
Condom use at last high risk sex - all	0.785	0.023	326	220	1.016	0.029	0.739	0.832
Condom use at last high risk sex (15-24)	0.793	0.037	140	94	1.089	0.047	0.718	0.868
Comprehensive knowledge of HIV								
transmission - all	0.554	0.023	811	547	1.318	0.042	0.508	0.600
Comprehensive knowledge of HIV	0 ====	0		0 = =		0.0=:		0 = 0 :
transmission - youth	0.529	0.029	384	259	1.119	0.054	0.472	0.586
Abstinence among youth (never had sex)	0.464	0.037	336	226	1.343	0.079	0.391	0.537
Sexual activity in past 12 months (never-	0.226	0.027	226	226	1 420	0.100	0.262	0.410
married youth) Had medical injections in past 12 months	0.336 0.348	0.037 0.018	336 811	226 547	1.420 1.066	0.109 0.051	0.263 0.312	0.410
Had HIV test and received results last time	0.346	0.018	811	547 547	1.066	0.031	0.312	0.363
Accepting attitudes towards people with HIV	0.356	0.012	810	546	1.104	0.133	0.003	0.110
HIV prevalence	0.045	0.020	707	510	1.062	0.036	0.028	0.062
Syphilis prevalence	0.023	0.006	658	495	1.059	0.274	0.010	0.035
••	WO	MEN AN	D MEN					
	0.038	0.037	52	29	1.001	0.975	0.000	0.113
Care and support for orphans and vulnerable								
children	0.000	0.000	362	200	na	na	0.000	0.000

		Stand	Number	of cases		Dolo		
	Value	Stand- ard error	Un- weighted	Weight- ed	Design effect	Rela- tive error	Confide	nce limits
√ariable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	R-2SE	R+2SE
		WOME	N					
Urban residence	0.132	0.014	1169	1555	1.403	0.105	0.104	0.160
No education	0.178	0.020	1169	1555	1.821	0.114	0.138	0.219
With secondary education or higher	0.263	0.021	1169	1555	1.650	0.081	0.220	0.305
Never married (in union) Currently married (in union)	0.218 0.637	0.018 0.018	1169 1169	1555 1555	1.495 1.302	0.083 0.029	0.182 0.600	0.254 0.674
	0.637	0.016	749	990	1.302	0.029	0.600	0.674
Currently using any contraceptive method Currently using a modern method	0.213	0.020	749 749	990	1.275	0.092	0.176	0.233
Had first sex before age 18	0.203	0.019	317	423	1.039	0.032	0.723	0.821
Had two or more sexual partners in past	0.772	0.023	317	723	1.033	0.032	0.7 23	0.021
12 months	0.058	0.008	891	1181	0.983	0.133	0.042	0.073
Had higher risk sex in the past 12 months	0.189	0.014	891	1181	1.031	0.072	0.162	0.216
Condom use at last high risk sex - all	0.559	0.047	167	223	1.228	0.085	0.464	0.653
Condom use at last high risk sex (15-24)	0.633	0.054	102	137	1.123	0.085	0.525	0.741
Comprehensive knowledge of HIV								
transmission - all	0.387	0.021	1169	1555	1.487	0.055	0.345	0.429
Comprehensive knowledge of HIV								
transmission - youth	0.388	0.027	490	655	1.226	0.070	0.334	0.442
Abstinence among youth (never had sex)	0.550	0.037	240	323	1.148	0.067	0.476	0.624
Sexual activity in past 12 months (never-	0.01=		2.10	222		0.400	0.040	
married youth)	0.317	0.034	240	323	1.144	0.109	0.248	0.385
Had medical injections in past 12 months	0.597	0.022	1169	1555	1.563	0.038	0.552	0.642
Had HIV test and received results last time	0.034	0.006	1169	1555	1.185	0.184	0.022	0.047
Accepting attitudes towards people with HIV	0.153	0.026	1169	1555	2.425	0.167	0.102	0.204
HIV prevalence	0.074	0.011	1138	1462	1.343	0.143	0.053	0.095
Syphilis prevalence	0.024	0.005	1135	1408	1.117	0.211	0.014	0.034
		MEN						
Jrban residence	0.103	0.014	877	1146	1.363	0.136	0.075	0.131
No education	0.082	0.010	877	1146	1.107	0.125	0.062	0.103
With secondary education or higher	0.368	0.026	877	1146	1.581	0.070	0.317	0.420
Never married (in union)	0.378	0.021	877	1146	1.255	0.054	0.337	0.419
Currently married (in union)	0.553	0.018	877	1146	1.089	0.033	0.516	0.589
Had first sex before age 18	0.558	0.044	204	268	1.271	0.079	0.470	0.647
Had two or more sexual partners in past		0.010	co=			0 0 4 <del>-</del>		0.400
12 months	0.394	0.019	635	827	0.957	0.047	0.357	0.432
Had higher risk sex in the past 12 months	0.387	0.020	635	827	1.057	0.053	0.346	0.428
Condom use at last high risk sex - all	0.558	0.035	245	320	1.085	0.062	0.489	0.627
Condom use at last high risk sex (15-24)	0.601	0.041	123	160	0.917	0.068	0.520	0.683
Comprehensive knowledge of HIV transmission - all	0.436	0.020	877	1146	1.188	0.046	0.396	0.476
Comprehensive knowledge of HIV	0.430	0.020	0//	1140	1.100	0.040	0.330	0.470
transmission - youth	0.406	0.024	364	477	0.918	0.058	0.358	0.453
Abstinence among youth (never had sex)	0.450	0.024	309	406	1.417	0.038	0.370	0.530
Sexual activity in past 12 months (never-	5.150	5.040	303	100	/	0.009	0.570	3.330
married youth)	0.342	0.034	309	406	1.271	0.101	0.273	0.410
Had medical injections in past 12 months	0.413	0.020	877	1146	1.227	0.049	0.373	0.454
Had HIV test and received results last time	0.031	0.008	877	1146	1.367	0.256	0.015	0.048
Accepting attitudes towards people with HIV	0.186	0.013	877	1146	0.978	0.069	0.161	0.212
HIV prevalence	0.053	0.010	851	1070	1.333	0.194	0.032	0.073
Syphilis prevalence	0.019	0.004	845	1036	0.833	0.208	0.011	0.027
	WO	MEN AN	D MEN					
Care and support for adults	0.009	0.009	108	142	0.967	0.973	0.000	0.027
Care and support for adults Care and support for orphans and vulnerable	0.003	0.003	100	172	0.507	0.575	0.000	0.027

		C+l	Number	of cases		D-I-		
	Value	Stand- ard error	Un- weighted	Weight- ed	Design effect	Rela- tive error	Confide	nce limits
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	R-2SE	R+2SE
		WOME	N					
Urban residence	0.075	0.010	915	857	1.147	0.133	0.055	0.095
No education	0.186	0.019	915	857	1.499	0.104	0.148	0.225
With secondary education or higher	0.168	0.016	915	857	1.286	0.095	0.136	0.200
Never married (in union) Currently married (in union)	0.196 0.718	0.015 0.020	915 915	85 <i>7</i> 85 <i>7</i>	1.134 1.342	0.076 0.028	0.166 0.678	0.226 0.758
Currently using any contraceptive method	0.227	0.020	659	615	1.342	0.025	0.076	0.730
Currently using a modern method	0.223	0.022	659	615	1.316	0.096	0.180	0.265
Had first sex before age 18	0.708	0.035	230	214	1.181	0.050	0.637	0.779
Had two or more sexual partners in past	0.7 00	0.033	230		1.101	0.050	0.057	0.775
12 months	0.047	0.010	738	691	1.255	0.209	0.027	0.066
Had higher risk sex in the past 12 months	0.154	0.021	738	691	1.564	0.135	0.113	0.196
Condom use at last high risk sex - all	0.367	0.042	110	107	0.906	0.114	0.283	0.450
Condom use at last high risk sex (15-24)	0.539	0.060	60	58	0.926	0.112	0.418	0.659
Comprehensive knowledge of HIV transmission - all Comprehensive knowledge of HIV	0.316	0.024	915	857	1.529	0.074	0.269	0.363
transmission - youth	0.338	0.038	356	333	1.530	0.114	0.261	0.415
Abstinence among youth (never had sex) Sexual activity in past 12 months (never-	0.550	0.047	175	164	1.234	0.085	0.457	0.643
married youth)	0.259	0.040	1 <i>7</i> 5	164	1.201	0.154	0.179	0.339
Had medical injections in past 12 months	0.557	0.017	915	857	1.037	0.031	0.523	0.591
Had HIV test and received results last time	0.046	0.013	915	857	1.939	0.291	0.019	0.073
Accepting attitudes towards people with HIV	0.165	0.023	905	848	1.840	0.138	0.119	0.210
HIV prevalence	0.063	0.011	851	811	1.286	0.175	0.041	0.084
Syphilis prevalence	0.028	0.006	828	781	1.049	0.215	0.016	0.040
		MEN						
Urban residence	0.076	0.011	822	770	1.168	0.142	0.054	0.097
No education	0.071	0.012	822	770	1.342	0.169	0.047	0.096
With secondary education or higher	0.315	0.023	822	770	1.393	0.072	0.270	0.361
Never married (in union)	0.389	0.021	822	770	1.232	0.054	0.347	0.431
Currently married (in union)	0.524	0.024	822	770	1.376	0.046	0.476	0.572
Had first sex before age 18	0.722	0.042	210	197	1.371	0.059	0.637	0.807
Had two or more sexual partners in past	0.265	0.023	641	599	1.191	0.062	0.320	0.410
12 months	0.365 0.480	0.023	641	599 599	1.191	0.056	0.320	0.534
Had higher risk sex in the past 12 months Condom use at last high risk sex - all	0.427	0.027	303	288	0.919	0.030	0.427	0.334
Condom use at last high risk sex (15-24)	0.443	0.042	169	160	1.108	0.096	0.358	0.528
Comprehensive knowledge of HIV	0.115	0.012	103	100	1.100	0.050	0.550	0.520
transmission - all	0.381	0.024	822	770	1.444	0.064	0.332	0.430
Comprehensive knowledge of HIV								
transmission - youth	0.389	0.035	345	323	1.339	0.090	0.319	0.460
Abstinence among youth (never had sex) Sexual activity in past 12 months (never-	0.324	0.035	289	272	1.265	0.108	0.254	0.394
married youth)	0.503	0.027	289	272	0.915	0.054	0.449	0.557
Had medical injections in past 12 months	0.405	0.022	822	770	1.311	0.055	0.360	0.450
Had HIV test and received results last time	0.039	0.012	822	770	1.815	0.315	0.014	0.063
Accepting attitudes towards people with HIV	0.265	0.018	822	770 716	1.158	0.067	0.229	0.300
HIV prevalence Syphilis prevalence	0.044 $0.032$	0.009 0.006	759 738	716 695	1.241 0.969	0.207 0.195	0.026 0.019	0.063 0.044
···		MEN AN						
Care and support for adults	0.013	0.013	81	 75	1.002	0.957	0.000	0.039
Care and support for addits  Care and support for orphans and vulnerable	0.013	0.013	υı	/ 3	1.002	0.557	0.000	0.033
children	0.003	0.003	319	309	1.054	1.013	0.000	0.010

			Number	of cases				
/ariable	Value (R)	Stand- ard error (SE)	Un- weighted (N)	Weight- ed (WN)	Design effect (DEFT)	Rela- tive error (SE/R)	Confide R-2SE	nce limits R+2SE
						(02/11)		
		WOME	.N					
Jrban residence	0.047	0.002	1246	829	0.374	0.048	0.042	0.051
No education	0.473	0.055	1246	829	3.867	0.116	0.364	0.582
Vith secondary education or higher Never married (in union)	0.073	0.010	1246	829	1.368	0.138 0.084	0.053	0.094
Currently married (in union)	0.172 0.750	0.014 0.016	1246 1246	829 829	1.349 1.322	0.064	0.143 0.718	0.201 0.783
Currently using any contraceptive method	0.756	0.018	930	622	1.525	0.022	0.718	0.763
Currently using a modern method	0.153	0.018	930	622	1.528	0.118	0.120	0.132
Had first sex before age 18	0.468	0.035	340	230	1.286	0.074	0.398	0.538
Had two or more sexual partners in past	000	0.000	5.0	_00	00	0.07	0.000	0.000
12 months	0.018	0.006	953	633	1.315	0.314	0.007	0.029
lad higher risk sex in the past 12 months	0.086	0.010	954	634	1.074	0.114	0.066	0.105
Condom use at last high risk sex - all	0.280	0.038	78	54	0.740	0.135	0.204	0.356
Condom use at last high risk sex (15-24)	0.315	0.061	40	27	0.817	0.193	0.193	0.436
Comprehensive knowledge of HIV	0.122	0.015	1246	020	1 5 4 4	0.112	0.102	0.163
transmission - all	0.132	0.015	1246	829	1.544	0.112	0.103	0.162
Comprehensive knowledge of HIV transmission - youth	0.166	0.023	459	309	1.308	0.137	0.121	0.212
Abstinence among youth (never had sex)	0.749	0.023	201	131	1.256	0.137	0.121	0.826
Sexual activity in past 12 months (never-	0.743	0.033	201	131	1.230	0.031	0.07 1	0.020
married youth)	0.212	0.037	201	131	1.281	0.175	0.138	0.286
Had medical injections in past 12 months	0.440	0.030	1246	829	2.164	0.069	0.379	0.500
Had HIV test and received results last time	0.019	0.005	1246	829	1.254	0.255	0.009	0.029
accepting attitudes towards people with HIV	0.154	0.015	1139	760	1.402	0.097	0.124	0.184
HIV prevalence	0.037	0.006	1192	775	1.126	0.165	0.025	0.050
yphilis prevalence	0.052	0.008	1149	749	1.247	0.160	0.036	0.069
		MEN						
Jrban residence	0.056	0.012	913	610	1.552	0.211	0.032	0.080
No education	0.264	0.052	913	610	3.588	0.198	0.052	0.369
Vith secondary education or higher	0.200	0.021	913	610	1.562	0.103	0.158	0.241
Never married (in union)	0.286	0.019	913	610	1.254	0.066	0.249	0.324
Currently married (in union)	0.684	0.019	913	610	1.237	0.028	0.645	0.722
Had first sex before age 18	0.393	0.027	190	132	0.756	0.068	0.339	0.447
Had two or more sexual partners in past								
12 months	0.138	0.020	678	450	1.500	0.144	0.099	0.178
lad higher risk sex in the past 12 months	0.185	0.026	679	450	1.725	0.139	0.134	0.237
Condom use at last high risk sex - all	0.359	0.058	120	83	1.317	0.161	0.243	0.475
Condom use at last high risk sex (15-24)	0.446	0.086	59	41	1.311	0.192	0.275	0.617
Comprehensive knowledge of HIV								
transmission - all	0.284	0.027	913	610	1.792	0.094	0.230	0.337
Comprehensive knowledge of HIV	0.5				4 0	0.45=	0	
transmission - youth	0.328	0.035	308	211	1.289	0.105	0.259	0.397
Abstinence among youth (never had sex)	0.558	0.034	230	156	1.039	0.061	0.490	0.626
sexual activity in past 12 months (never- married youth)	0.213	0.029	230	156	1.056	0.134	0.156	0.270
Had medical injections in past 12 months	0.213	0.029	913	156 610	1.056 2.046	0.134	0.156 0.270	0.270
Had HIV test and received results last time	0.334	0.032	913	610	1.458	0.096	0.270	0.396
accepting attitudes towards people with HIV	0.034	0.009	839	568	2.015	0.236	0.017	0.032
HIV prevalence	0.314	0.032	861	565	0.980	0.103	0.249	0.379
yphilis prevalence	0.032	0.008	826	550	1.053	0.170	0.021	0.044
/1 1		MEN AN						
are and support for adults	0.000	0.000	85	58	na	na	0.000	0.000
Care and support for orphans and vulnerable children	0.000	0.000	556	364	na	na	0.000	0.000

		Gr. I	Number	of cases		D 1		
	Value	Stand- ard error	Un- weighted	Weight- ed	Design effect	Rela- tive error		nce limits
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	R-2SE	R+2SE
		WOME	N					
Jrban residence	0.100	0.005	1034	970	0.588	0.055	0.089	0.111
No education	0.272	0.021	1034	970	1.501	0.076	0.230	0.313
With secondary education or higher	0.090	0.015	1034	970	1.666	0.165	0.061	0.120
Never married (in union)	0.133	0.010	1034	970	0.992	0.079	0.112	0.154
Currently married (in union) Currently using any contraceptive method	0.726 0.120	0.018 0.018	1034 <i>7</i> 50	970 705	1.334 1.510	0.025 0.149	$0.689 \\ 0.085$	0.763 0.156
Currently using any contraceptive method	0.120	0.017	750 750	705 705	1.471	0.149	0.083	0.150
Had first sex before age 18	0.749	0.017	275	259	1.016	0.036	0.696	0.132
Had two or more sexual partners in past	0.743	0.027	2/3	233	1.010	0.030	0.030	0.002
12 months	0.015	0.005	828	777	1.206	0.344	0.005	0.025
Had higher risk sex in the past 12 months	0.112	0.013	828	777	1.200	0.118	0.085	0.138
Condom use at last high risk sex - all	0.172	0.046	93	87	1.171	0.268	0.080	0.265
Condom use at last high risk sex (15-24)	0.175	0.055	46	43	0.974	0.315	0.065	0.285
Comprehensive knowledge of HIV								
transmission - all	0.161	0.016	1034	970	1.373	0.097	0.130	0.193
Comprehensive knowledge of HIV								
transmission - youth	0.171	0.023	373	350	1.155	0.132	0.126	0.216
Abstinence among youth (never had sex)	0.602	0.056	128	119	1.288	0.093	0.490	0.713
Sexual activity in past 12 months (never-		0.006	400		0.000	0.400		0.0=0
married youth)	0.280	0.036	128	119	0.899	0.128	0.208	0.352
Had medical injections in past 12 months	0.508	0.017	1034	970	1.119	0.034	0.473	0.543
Had HIV test and received results last time	0.043	0.009	1034	970	1.416	0.208	0.025	0.061
Accepting attitudes towards people with HIV	0.282	0.025	1026	962	1.749	0.087	0.233	0.331
HIV prevalence Syphilis prevalence	0.092 0.035	0.012 0.007	961 914	918 886	1.304 1.137	0.132 0.197	0.068 0.021	0.117 0.049
эурння ріечаенсе					1.137	0.137	0.021	
		MEN						
Jrban residence	0.090	0.010	868	795	1.056	0.114	0.069	0.110
No education	0.035	0.005	868	795	0.883	0.158	0.024	0.046
With secondary education or higher	0.271	0.018	868	795	1.179	0.066	0.235	0.307
Never married (in union)	0.295	0.021	868	795	1.344	0.071	0.253	0.336
Currently married (in union)	0.654	0.026	868	795	1.587	0.039	0.603	0.705
Had first sex before age 18	0.517	0.049	203	186	1.401	0.095	0.419	0.616
Had two or more sexual partners in past	0.242	0.016	600	(22	0.065	0.065	0.211	0.275
12 months	0.243	0.016	690	633	0.965	0.065	0.211	0.275
Had higher risk sex in the past 12 months Condom use at last high risk sex - all	0.281 0.344	0.020 0.046	690 194	633 178	1.166 1.338	0.071 0.133	0.241 0.253	0.321 0.436
Condom use at last high risk sex - all Condom use at last high risk sex (15-24)	0.344	0.046	194	94	1.330	0.133	0.233	0.436
Comprehensive knowledge of HIV	0.713	0.05/	105	J <b>-</b> T	1.103	0.13/	0.302	0.523
transmission - all	0.290	0.015	868	795	0.999	0.053	0.259	0.321
Comprehensive knowledge of HIV	3.230	5.015	500	. 55	0.000	0.000	S. <u>=</u> 55	0.521
transmission - youth	0.317	0.031	299	273	1.162	0.099	0.254	0.380
Abstinence among youth (never had sex)	0.385	0.044	231	211	1.368	0.114	0.297	0.473
Sexual activity in past 12 months (never-								
married youth)	0.386	0.041	231	211	1.277	0.106	0.304	0.468
Had medical injections in past 12 months	0.390	0.016	868	795	0.970	0.041	0.358	0.422
Had HIV test and received results last time	0.053	0.009	868	795	1.226	0.176	0.035	0.072
Accepting attitudes towards people with HIV	0.437	0.019	865	792	1.113	0.043	0.399	0.474
HIV prevalence	0.071	0.012	772	732	1.323	0.170	0.048	0.097
Syphilis prevalence	0.060	0.008	727	712	0.950	0.140	0.043	0.076
	WO	MEN AN	D MEN					
Care and support for adults	0.011	0.007	274	244	1.064	0.610	0.000	0.024
Care and support for orphans and vulnerable children	0.005	0.003	918	817	1.234	0.659	0.000	0.012
Ciliureil	0.005	0.003	910	01/	1.434	0.059	0.000	0.012

		C. I	Number	of cases		D !		
	Value	Stand- ard error	Un- weighted	Weight- ed	Design effect	Rela- tive error	Confide	nce limits
Variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	R-2SE	R+2SE
		WOME	N					
Urban residence	0.077	0.007	1451	958	0.944	0.086	0.063	0.090
No education	0.340	0.028	1451	958	2.239	0.082	0.284	0.396
With secondary education or higher	0.065	0.010	1451	958	1.533	0.152	0.046	0.085
Never married (in union)	0.205	0.014	1451	958	1.329	0.069	0.177	0.234
Currently married (in union)	0.634 0.083	0.014 0.010	1451 920	958 607	1.128 1.062	0.023 0.116	0.605 0.064	0.662 0.103
Currently using any contraceptive method Currently using a modern method	0.063	0.010	920	607	1.062	0.110	0.058	0.103
Had first sex before age 18	0.076	0.010	385	255	1.308	0.129	0.409	0.542
Had two or more sexual partners in past	0.473	0.033	303	233	1.500	0.070	0.403	0.542
12 months	0.016	0.005	949	630	1.139	0.293	0.007	0.025
Had higher risk sex in the past 12 months	0.055	0.010	949	630	1.331	0.179	0.035	0.075
Condom use at last high risk sex - all	0.432	0.077	50	35	1.084	0.178	0.278	0.585
Condom use at last high risk sex (15-24)	0.450	0.086	41	29	1.099	0.192	0.277	0.623
Comprehensive knowledge of HIV								
transmission - all	0.116	0.014	1451	958	1.676	0.122	0.087	0.144
Comprehensive knowledge of HIV								
transmission - youth	0.133	0.018	600	396	1.292	0.135	0.097	0.169
Abstinence among youth (never had sex)	0.848	0.037	293	192	1.761	0.044	0.774	0.922
Sexual activity in past 12 months (never-	0.400		200	400	4 = 00	0.06=	0.0=0	0.466
married youth)	0.108	0.029	293	192	1.588	0.267	0.050	0.166
Had medical injections in past 12 months	0.626	0.041	1451	958	3.198	0.065	0.544	0.707
Had HIV test and received results last time	0.044	0.007	1451	958	1.386	0.170	0.029	0.059
Accepting attitudes towards people with HIV	0.185	0.023	1420	938	2.202	0.123	0.139	0.230
HIV prevalence	0.027	0.005	1415	899	1.157	0.198	0.016	0.037
Syphilis prevalence	0.012	0.003	1364	866	1.008	0.249	0.006	0.018
		MEN						
Urban residence	0.068	0.007	1148	735	0.975	0.107	0.053	0.082
No education	0.042	0.007	1148	735	1.120	0.157	0.029	0.056
With secondary education or higher	0.273	0.021	1148	735	1.605	0.077	0.230	0.315
Never married (in union)	0.404	0.020	1148	735	1.378	0.049	0.364	0.444
Currently married (in union)	0.522	0.019	1148	735	1.269	0.036	0.485	0.560
Had first sex before age 18	0.409	0.038	313	201	1.378	0.094	0.332	0.485
Had two or more sexual partners in past	0.277	0.000	7.45	404	1 100	0.000	0.224	0.222
12 months	0.277	0.023	745	481	1.408	0.083	0.231	0.323
Had higher risk sex in the past 12 months	0.290	0.026	746	482	1.580	0.091	0.237	0.342
Condom use at last high risk sex - all	0.458 0.500	0.029 0.041	210 131	139 87	0.850 0.933	0.064 0.082	0.399 0.419	0.517 0.582
Condom use at last high risk sex (15-24) Comprehensive knowledge of HIV	0.300	0.041	131	07	0.933	0.002	0.419	0.362
transmission - all	0.376	0.024	1148	735	1.689	0.064	0.327	0.424
Comprehensive knowledge of HIV	0.5/0	0.044	1170	, 55	1.003	0.004	0.34/	0.74
transmission - youth	0.395	0.029	515	329	1.355	0.074	0.336	0.453
Abstinence among youth (never had sex)	0.566	0.025	430	275	1.447	0.061	0.330	0.635
Sexual activity in past 12 months (never-	500	000		_, 5				000
married youth)	0.252	0.033	430	275	1.576	0.131	0.186	0.318
Had medical injections in past 12 months	0.430	0.024	1148	735	1.657	0.056	0.381	0.478
Had HIV test and received results last time	0.041	0.006	1148	735	1.073	0.153	0.028	0.053
Accepting attitudes towards people with HIV	0.352	0.023	1138	728	1.594	0.064	0.307	0.398
HIV prevalence	0.019	0.003	1104	685	0.874	0.196	0.011	0.025
Syph <sup>'</sup> ilis prevalence	0.016	0.004	1086	664	1.059	0.257	0.008	0.024
	WO	MEN AN	D MEN					
Care and support for adults	0.006	0.006	159	103	0.986	1.008	0.000	0.018
Care and support for orphans and vulnerable	0.004	0.004	707	400	1.000	0.000	0.000	0.004
children	0.001	0.001	787	492	1.009	0.999	0.000	0.004

		C. I	Number	of cases		ь.		
	Value	Stand- ard error	Un- weighted	Weight- ed	Design effect	Rela- tive error		nce limits
ariable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	R-2SE	R+2SE
		WOME	N					
Irban residence	0.031	0.003	1058	1140	0.536	0.093	0.025	0.036
lo education	0.254	0.027	1058	1140	1.986	0.105	0.201	0.307
Vith secondary education or higher	0.136	0.024	1058	1140	2.240	0.174	0.089	0.183
lever married (in union)	0.195	0.017	1058	1140	1.355	0.085	0.162	0.228
furrently married (in union)	0.684	0.017	1058	1140	1.218	0.025	0.649	0.719
furrently using any contraceptive method	0.164	0.024	721 721	780 780	1.719	0.145	0.117	0.212
furrently using a modern method	0.158	0.023	721	780	1.711	0.147	0.112	0.205
lad first sex before age 18	0.606	0.031	304	328	1.119	0.052	0.543	0.668
lad two or more sexual partners in past	0.010	0.006	920	907	1 220	0.245	0.005	0.020
2 months	0.018	0.006	829	897	1.329	0.345	0.005	0.030
lad higher risk sex in the past 12 months	0.099 $0.390$	0.011	829	897	1.020	0.107	$0.078 \\ 0.302$	0.121 0.479
ondom use at last high risk sex - all		0.044	82 47	89 51	0.816	0.113 0.104		
Condom use at last high risk sex (15-24)	0.474	0.049	47	51	0.670	0.104	0.375	0.572
omprehensive knowledge of HIV ransmission - all	0.204	0.015	1058	1140	1.226	0.075	0.173	0.234
	0.204	0.013	1036	1140	1.220	0.073	0.173	0.234
omprehensive knowledge of HIV	0.175	0.022	435	468	1.221	0.127	0.130	0.219
ransmission - youth	0.173	0.022	194	205	1.167		0.130	0.219
bstinence among youth (never had sex) exual activity in past 12 months (never-	0./3/	0.037	194	203	1.107	0.050	0.003	0.011
married youth)	0.228	0.038	194	205	1.256	0.166	0.152	0.304
lad medical injections in past 12 months	0.220	0.038	1058	1140	1.164	0.100	0.132	0.537
lad HIV test and received results last time	0.031	0.015	1058	1140	0.864	0.030	0.403	0.041
ccepting attitudes towards people with HIV	0.242	0.003	1038	1124	1.650	0.090	0.022	0.041
IIV prevalence	0.242	0.022	1043	1071	1.696	0.036	0.050	0.108
yphilis prevalence	0.043	0.005	954	1030	0.744	0.115	0.033	0.100
		MEN						
Irban residence	0.039	0.002	906	945	0.372	0.061	0.034	0.044
lo education	0.101	0.002	906	945	1.176	0.117	0.078	0.125
Vith secondary education or higher	0.234	0.012	906	945	1.766	0.106	0.185	0.123
lever married (in union)	0.353	0.017	906	945	1.088	0.049	0.318	0.387
furrently married (in union)	0.540	0.022	906	945	1.345	0.043	0.496	0.585
lad first sex before age 18	0.425	0.041	198	206	1.176	0.097	0.342	0.508
lad two or more sexual partners in past	0.123	0.011	130	200	1.170	0.037	0.5 12	0.500
12 months	0.217	0.018	642	672	1.103	0.083	0.181	0.253
lad higher risk sex in the past 12 months	0.217	0.017	643	673	0.947	0.058	0.260	0.329
ondom use at last high risk sex - all	0.500	0.017	189	198	1.239	0.090	0.409	0.590
fondom use at last high risk sex (15-24)	0.507	0.043	80	84	1.144	0.030	0.378	0.636
omprehensive knowledge of HIV	3.507	2.001	50	٥.			2.270	3.050
ransmission - all	0.247	0.017	906	945	1.201	0.070	0.213	0.282
omprehensive knowledge of HIV								
ransmission - youth	0.231	0.022	343	355	0.944	0.093	0.188	0.274
bstinence among youth (never had sex)	0.599	0.029	274	283	0.961	0.048	0.542	0.656
exual activity in past 12 months (never-		==	•		-	• =	•=	
married youth)	0.239	0.024	274	283	0.920	0.099	0.192	0.287
lad medical injections in past 12 months	0.304	0.022	906	945	1.430	0.072	0.260	0.348
lad HIV test and received results last time	0.026	0.005	906	945	0.975	0.198	0.016	0.036
ccepting attitudes towards people with HIV	0.290	0.020	893	932	1.345	0.070	0.249	0.331
IIV prevalence	0.058	0.012	844	871	1.561	0.216	0.033	0.082
yphilis prevalence	0.037	0.007	823	847	1.136	0.202	0.022	0.051
	WO	MEN AN	D MEN					
are and support for adults	0.000	0.000	75	81	na	na	0.000	0.000
are and support for orphans and vulnerable children	0.000	0.000	475	512	na	na	0.000	0.000

Variable  Urban residence No education  With secondary education or higher Never married (in union) Currently married (in union) Currently using any contraceptive method Currently using a modern method Had first sex before age 18 Had two or more sexual partners in past 12 months Had higher risk sex in the past 12 months	Value (R) 0.060 0.266 0.130 0.242 0.614 0.180 0.158 0.413	Stand- ard error (SE) WOME 0.017 0.024 0.017 0.017 0.018 0.025	Un- weighted (N)  N  1059 1059 1059 1059	Weight- ed (WN)	Design effect (DEFT) 2.305 1.781	Relative error (SE/R)	R-2SE	nce limits R+2SE
Orban residence No education With secondary education or higher Never married (in union) Currently married (in union) Currently using any contraceptive method Currently using a modern method Had first sex before age 18 Had two or more sexual partners in past To months Had higher risk sex in the past 12 months	0.060 0.266 0.130 0.242 0.614 0.180 0.158	0.017 0.024 0.017 0.017 0.018	1059 1059 1059	1309 1309	2.305			R+2SE
No education With secondary education or higher Never married (in union) Currently married (in union) Currently using any contraceptive method Currently using a modern method Had first sex before age 18 Had two or more sexual partners in past 12 months Had higher risk sex in the past 12 months	0.266 0.130 0.242 0.614 0.180 0.158	0.017 0.024 0.017 0.017 0.018	1059 1059 1059	1309		0.281	0.026	
No education With secondary education or higher Never married (in union) Currently married (in union) Currently using any contraceptive method Currently using a modern method Had first sex before age 18 Had two or more sexual partners in past 12 months Had higher risk sex in the past 12 months	0.266 0.130 0.242 0.614 0.180 0.158	0.024 0.017 0.017 0.018	1059 1059	1309		0.281	0.000	
With secondary education or higher Never married (in union) Currently married (in union) Currently using any contraceptive method Currently using a modern method Had first sex before age 18 Had two or more sexual partners in past 12 months Had higher risk sex in the past 12 months	0.130 0.242 0.614 0.180 0.158	0.017 0.017 0.018	1059		1.781		0.026	0.093
Never married (in union) Currently married (in union) Currently using any contraceptive method Currently using a modern method Had first sex before age 18 Had two or more sexual partners in past 12 months Had higher risk sex in the past 12 months	0.242 0.614 0.180 0.158	0.017 0.018				0.091	0.218	0.314
Currently married (in union) Currently using any contraceptive method Currently using a modern method Had first sex before age 18 Had two or more sexual partners in past 12 months Had higher risk sex in the past 12 months	0.614 0.180 0.158	0.018		1309	1.680	0.134	0.095	0.164
Currentlý using any contraceptive method Currently using a modern method Had first sex before age 18 Had two or more sexual partners in past 12 months Had higher risk sex in the past 12 months	0.180 0.158		1059	1309 1309	1.279 1.220	0.069 0.030	0.209 0.577	0.276 0.650
Currently using a modern method Had first sex before age 18 Had two or more sexual partners in past 12 months Had higher risk sex in the past 12 months	0.158		648	803	1.666	0.030	0.377	0.030
Had first sex before age 18 Had two or more sexual partners in past 12 months Had higher risk sex in the past 12 months		0.025	648	803	1.749	0.140	0.130	0.231
Had two or more sexual partners in past 12 months Had higher risk sex in the past 12 months	0.115	0.025	285	353	0.839	0.059	0.364	0.462
12 months Had higher risk sex in the past 12 months		0.023	203	555	0.033	0.033	0.501	0.102
Had higher risk sex in the past 12 months	0.018	0.005	716	884	0.974	0.270	0.008	0.027
	0.056	0.009	716	884	1.016	0.156	0.039	0.074
Condom use at last high risk sex - all	0.292	0.063	41	50	0.881	0.217	0.166	0.419
Condom use at last high risk sex (15-24)	0.421	0.137	19	23	1.182	0.327	0.146	0.696
Comprehensive knowledge of HIV								
transmission - all	0.171	0.014	1059	1309	1.172	0.079	0.144	0.198
Comprehensive knowledge of HIV	0.4=0	0.010	100				0.400	0.011
transmission - youth	0.172	0.019	436	538	1.077	0.114	0.133	0.211
Abstinence among youth (never had sex)	0.856	0.033	233	287	1.418	0.038	0.791	0.922
exual activity in past 12 months (never-	0.076	0.024	233	287	1.381	0.315	0.028	0.125
married youth)	0.076	0.024	233 1059	1309	1.301	0.313	0.028	0.123
Had medical injections in past 12 months Had HIV test and received results last time	0.370	0.021	1059	1309	1.403	0.036	0.326	0.412
Accepting attitudes towards people with HIV	0.023	0.003	1059	1297	1.500	0.192	0.016	0.033
HIV prevalence	0.121	0.013	987	1218	1.082	0.123	0.051	0.131
yphilis prevalence	0.026	0.005	982	1172	0.949	0.127	0.017	0.036
yprime prevalence								
		MEN						
Jrban residence	0.071	0.009	820	1012	1.007	0.127	0.053	0.089
No education	0.074	0.008	820	1012	0.931	0.116	0.057	0.090
Vith secondary education or higher	0.218	0.023	820	1012	1.569	0.104	0.173	0.263
Never married (in union)	0.425	0.020	820	1012	1.184	0.048	0.384	0.466
Currently married (in union)	0.497	0.022	820	1012	1.244	0.044	0.454	0.541
Had first sex before age 18 Had two or more sexual partners in past	0.297	0.036	197	242	1.106	0.122	0.225	0.369
12 months	0.181	0.025	502	620	1.464	0.139	0.130	0.231
Had higher risk sex in the past 12 months	0.131	0.023	504	622	1.055	0.139	0.130	0.231
Condom use at last high risk sex - all	0.262	0.020	118	145	1.033	0.063	0.193	0.272
Condom use at last high risk sex (15-24)	0.226	0.060	53	65	1.041	0.267	0.105	0.347
Comprehensive knowledge of HIV	S. <b></b>	2.000	33	05		S. <b>_</b> 0,	5.105	0.5 17
transmission - all	0.219	0.018	820	1012	1.249	0.083	0.183	0.255
Comprehensive knowledge of HIV								
transmission - youth	0.196	0.019	369	454	0.897	0.095	0.159	0.234
Abstinence among youth (never had sex)	0.662	0.036	331	408	1.375	0.054	0.590	0.734
exual activity in past 12 months (never-	0.1=-	0 0 = =	00:		4.40:	0.1.5	0.1:-	0.000
married youth)	0.156	0.022	331	408	1.104	0.142	0.112	0.200
lad medical injections in past 12 months	0.370	0.023	820	1012	1.352	0.062	0.324	0.416
Had HIV test and received results last time	0.025	0.007	820	1012	1.368	0.302	0.010	0.039
accepting attitudes towards people with HIV	0.223	0.019	816	1007	1.284	0.084	0.185	0.260
HIV prevalence	0.046	0.009	773 760	937	1.251	0.210	0.026	0.064
yphilis prevalence	0.024	0.006	769	909	0.997	0.226	0.013	0.036
	WO	MEN AN	D MEN					
Care and support for adults Care and support for orphans and vulnerable	0.012	0.012	83	100	0.982	0.976	0.000	0.036
children	0.000	0.000	553	661	na	na	0.000	0.000

# Appendix C

# **QUESTIONNAIRES**

# UGANDA HIV/AIDS SERO-BEHAVIORAL SURVEY HOUSEHOLD QUESTIONNAIRE

# **ENGLISH**

		IDENTIFICATION		
PARISH  LC1  NAME OF HOUSEHOLD  CLUSTER NUMBER  HOUSEHOLD NUMBER  REGION  DISTRICT  URBAN/RURAL (URBAN:	HEAD =1, RURAL=2) TOWN/RURAL TY=2, TOWN=3, RURAL=4			
		INTERVIEWER VISITS		
	1	2	3	FINAL VISIT
INTERVIEWER'S NAME RESULT*  NEXT VISIT: DATE TIME				DAY  MONTH  YEAR INTERVIEWER NUMBER RESULT  TOTAL NUMBER OF VISITS
HOME 3 ENTIRE 4 POSTP 5 REFUS 6 DWELL 7 DWELL	USEHOLD MEMBER AT H AT TIME OF VISIT E HOUSEHOLD ABSENT F ONED ED ING VACANT OR ADDRE ING DESTROYED	FOR EXTENDED PERIOD		TOTAL PERSONS IN HOUSEHOLD  TOTAL ELIGIBLE WOMEN  TOTAL ELIGIBLE MEN  TOTAL ELIGIBLE CHILDREN  LINE NO. OF RESPONDENT TO HOUSEHOLD QUESTIONNAIRE
NAME	TEAM SUPER\	/ISOR		DATA EDITOR DATA ENTRY CLERK

A. HOUSEHOLD SCHEDULE Now we would like some information about the people who usually live in your household or who are staying with you no

		<u>_</u>											
ELIGIBILITY (ORPHANS)	CIRCLE LINE NUMBER OF	CHILDREN WITH ONE OR BOTH PARENTS DEAD ("NO" IN Q. 15 AND/ OR Q. 17)	(19)	01	05	80	04	90	90	20	80	60	10
OLD***	IF ALIVE	Does (NAME)'s natural father live in this live in this live has live for YES. What is his name/initials? RECORD FATHER'S LINE NUMBER. IF NOT IN THE HOUSEHOLD,	(18)										
RSHIP AND RESII THAN 18 YEARS	Is (NAME)'s	father alive?	(17)	> - L	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8
PARENTAL SURVIVORSHIP AND RESIDENCE FOR PERSONS LESS THAN 18 YEARS OLD****	IF ALIVE	Does (NAME)'s natural mother live in this live in this live in this live for the following live in the live for the live in the live live live live live live live liv	(16)										
PA FC	Is (NAME)'s	alive?	(15)	7 × N XX 2 × 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8
	IF AGE 5-24 YEARS	is school?	(14)	YES NO	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
EDUCATION	IF AGE 5 YRS OR OLDER	What is the highest level of school (NAME) has attended?** What is the highest (class/year) (NAME) completed at that level?**	(13)	LEVEL CLASS									
	IF AGE 5 Y	Has (NAME) ever attended school?	(12)	YES NO 1 2 Q.15♣	1 Q.15←J	1 Q.15←J	1 Q.15←J	1 Q.15♣	1 Q.15♣ <sup>J</sup>	1 Q.15←J	1 Q.15←J	1 Q.15←J	1 Q.15←J
ILL PERSONS	IF AGE 18-59 YEARS	Has sick sick leas sick leas sick leas sick last leas sick last last last last last last last last	(11)	2 N DK	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8
·Π.	CIRCLE	NO. OF ALL CHILD- REN AGE 0-4	(10)	10	05	03	04	90	90	20	80	60	10
ELIGIBILITY	CIRCLE	NO. OF ALL MEN AGE 15-59	(6)	10	05	03	90	90	90	07	80	60	9
	CIRCLE	OF OF AG	(8)	01	02	03	04	90	90	20	80	60	10
NCE	Did (NAME)	stay here last night?	(2)	YES NO	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
RESIDENCE	Does (NAME)	usually iive II here?	(9)	YES NO	2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
AGE	How old is (NAME)?		(5)	IN YEARS									
SEX	ls (NAME)	male or female?	(4)	∑	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
RELATIONSHIP TO HH HEAD	What is the relationship of	to the he Id?*	(3)										
USUAL RESIDENTS AND VISITORS	Please give me the names or initials of	the persons who usually live in your household and guests of the household who stayed here last night, starting with the head of the household.	(2)										
LINE NO.			£	01	02	03	04	90	90	07	80	60	10

NO NO	USUAL RESIDENTS AND VISITORS	RELATIONSHIP TO HH HEAD	SEX	AGE	RESIDENC	ENCE		ELIGIBILITY		ILL		EDUCATION		шш	PARENTAL SURVIVORSHIP AND RESIDENCE FOR PERSONS LESS THAN 18 YEARS OLD***	DRSHIP AND RESI	DENCE OLD***	ELIGIBILITY (ORPHANS)
	Please give me the names or initials of	What is the relationship of	ls (NAME)	How old is (NAME)?	Does (NAME)	Did (NAME)	CIRCLE	CIRCLE ( LINE	CIRCLE I	IF AGE 18-59 YEARS	IF AGE 5 YF	IF AGE 5 YRS OR OLDER	IF AGE 5-24 YEARS	Is (NAME)'s		ls (NAME)'s	IF ALIVE	CIRCLE LINE NUMBER OF
	the persons who usually live in your household and guests	(NAME) to the head of the household?*	male or female?		usually ilive here?	stay here last night?	NO. OF ALL WOMEN	NO. OF ALL	NO. OF ALL CHILD-	Has (NAME) been very sick for at	Has (NAME) ever	What is the highest level of school	Is (NAME) in school?	natural mother alive?	Does (NAME)'s natural mother live in this	natural father alive?	Does (NAME)'s natural father live in this	CHILDREN WITH ONE OR BOTH
	of the household who										_	(NAME) has			household?		¿pi	PARENTS
	stayed here last night,						15-59	15-59 /	AGE 0-4		school?	attended?**			IF YES:			DEAD
	starting with the head of the household									12 months?		what is the			what is ner name/initials?		what is his	("NO" IN O 15 AND/
										I mean too		year) (NAME)			RECORD		RECORD	OR Q. 17)
										sick to work		completed at			MOTHER'S		FATHER'S	
									<u> </u>	or do nor-		that level?**			LINE NUMBER.		LINE NUMBER.	_
										around the house.					HOUSEHOLD, RECORD '00'		HOUSEHOLD, RECORD '00'	
£	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
			E E	IN YEARS	YES NO	YES NO				Y N DK	YES NO	LEVEL CLASS	YES NO	YC N ≻		N DK		
1			2		1 2	2	<del></del>	=	=	1 2 8	1 Ω.15♣2		1 2	1 2 8		1 2 8		1
12			1 2		1 2	1 2	12	12	12	1 2 8	1 Q. 15 ← 2		1 2	1 2 8		1 2 8		12
13			1 2		1 2	1 2	61	13	13	1 2 8	0.15		1 2	1 2 8		1 2 8		13
14			1 2		1 2	1 2	41	41	41	1 2 8	1 Q. 15♣☐		1 2	1 2 8		1 2 8		14
15			1 2		1 2	1 2	15	15	15	1 2 8	1 Q. 15♣		1 2	1 2 8		1 2 8		15
16			1 2		1 2	1 2	16	16	91	1 2 8	1 Q. 15♣2		1 2	1 2 8		1 2 8		16
17			1 2		1 2	1 2	17	17	17	1 2 8	1 Q. 15←J		1 2	1 2 8		1 2 8		17
18			1 2		1 2	1 2	18	18	18	1 2 8	1 Q. 15←J		1 2	1 2 8		1 2 8		18
*CODE RELAT	*CODES FOR Q. 3 RELATIONSHIP TO HH HEAD:	06 = PARENT 07 = PARENT-IN-LAW	WF		**CODES FOR EDUCATION L	OR Q. 13 IN LEVEL:	***Q.15 THROUGH Q.18 THESE QUESTIONS REFER TO	STIONS R	8 EFER TO		MARK 'X' HEI	MARK 'X' HERE IF CONTINUATION SHEET USED Just to make sure that I have a complete listing	TION SHEET	USED e listina:				
01 = Hr		09 = NIECE/NEPHE	SW BY BLOC		1 = PRIMARY 2 = '0' LEVEL 3 = 'a' I EVE	ᅔᆸᆢ	THE CHILD.	SICAL PAR	N N N N N N N N N N N N N N N N N N N		1) Are th	nere any other p	persons such	າ as small	Are there any other persons such as small children or infants that we have not listed	nts that we hav	e not listed	_
03 = 80		11 = OTHER RELATIONS 12 = ADOPTED/ED	TIVE STED		4 = UNIVER	SSITY/	IN Q.16 AND Q.18, RECORD '00'	O.18, REC	ORD '00'					YES	FNTER EACH IN TABLE	H IN TABLE	 0v	
05 = GI	04 - SON-IN-LAW OR DAUGHTER-IN-LAW 05 = GRANDCHILD	STEPCHILD STEPCHILD 13 = NOT RELATED	2 2		8 = DONT KNOW EDUCATION CLAS	KNOW IN CLASS:	HOUSEHOL	D	<u> </u>		2) In add family	dition, are there	any other μ estic servant	eople whos, lodgers	In addition, are there any other people who may not be members of you family, such as domestic servants, lodgers or friends who usually live here?	embers of you usually live her	e?	
		98 = DONT KNOW			VR COURT THAN 1	THAN 1								YES	T ENTER EACH IN TABLE	H IN TABLE	ON ON	
					COMPLETED 98 = DON'T KNOW	LETED T KNOW					<ol> <li>Are the slept</li> </ol>	Are there any guests or temporary visitors stay slept here last night, who have not been listed:	s or tempora who have n	ry visitors of been lis	Are there any guests or temporary visitors staying here, or anyone else whr slept here last night, who have not been listed?	anyone else w	/hκ	
														YES	ENTER EACH IN TABLE	H IN TABLE	ON	

A1. HEPATITIS B IMMUNIZATIONS

LINE	CHILD'S NAME				IMMUNIZATIONS				DATE OF BIRTH
RECORD	RECORD	Has (NAME)	In all, how	Do you have a	RECORD	DAY, MONTH,	DAY, MONTH, AND YEAR OF VACCINATIONS	ACCINATIONS	RECORD THE DAY,
LINE NO.	NAME OR	ever received	many doses	health card for	NUMBER				MONTH, AND
OF CHILDREN	INITIALS OF	an immunization	of the	(NAME) on which	OF	FIRST	SECOND	THIRD	YEAR OF BIRTH.
AGE 0-4	CHILD	in the left thigh	hepatitis	his/her	HEPATITIS B				
YEARS FROM		against	vaccine	vaccinations	DOSES				IF THE DAY OR MONTH
COLUMN 10		hepatitis?	has (NAME)	are recorded?	LISTED ON				OF BIRTH IS
IN THE			received?		THE CARD.				NOT KNOWN,
HOUSEHOLD				ASK TO SEE					RECORD '98'.
SCHEDULE			IF DON'T	THE CARD.	RECORD '0'				
			KNOW		IF NO DOSES				YOU MUST RECORD
			RECORD	RECORD '1'	ARE LISTED				A YEAR OF BIRTH
			<u>'</u> 8	IF CARD	AND GO TO				FOR EVERY CHILD
				SEEN, '2' IF NOT SEEN.	NEXT CHILD.				WHOSE HEALTH CARD IS SEEN.
(19A)	(19B)	(19C)	(19D)	(19E)	(19F)	(19G)	(19H)	(191)	(19J)
		YES NO/DK		SEEN NOT SEEN		DD/MM/YYYY	DD/MM/YYYY	DD/MM/YYYY	DD/MM/YYYY
		1 19E		1 NEXT ← 2		//	//	//	//
		1 19E 🛧		1 NEXT ←		//	//	11	11
		1 19E 🛧		1 NEXT ←		//	//	11	11
		1 19E 🛧		1 NEXT ←		11	//	11	11
		1 19E		1 NEXT←J		//	//	11	11
		1 19E 📥		1 NEXT←J		11	//	11	11
		1 19E 📤		1 NEXT←J		11	//	11	11
		1 19E 🛧		1 NEXT ← J		//	//	//	//

IF MORE THAN 8 CHILDREN UNDER 5 CHILDREN USE CONTINUATION SHEET

	B. HOUSEHOLD CHARACTE	RISTICS	
NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
20	What is the main source of drinking water for members of your household?	PIPED WATER         11           PIPED INTO DWELLING         11           PIPED INTO YARD/COMPOUND         12           PUBLIC TAP         13           WATER FROM OPEN WELL         21           OPEN WELL IN DWELLING         21           OPEN WELL IN YARD/COMPOUND         22           OPEN PUBLIC WELL         23           WATER FROM COVERED WELL OR         80REHOLE           PROTECTED WELL IN         31           PROTECTED WELL IN         34           PROTECTED WELL IN         33           SURFACE WATER         PROTECTED PUBLIC WELL         33           SURFACE WATER         PROTECTED SPRING         41           UNPROTECTED SPRING         42           RIVER/STREAM         43           POND/LAKE         44           DAM         45           RAINWATER         51           WATER TRUCK         61           BOTTLED WATER         71           GRAVITY FLOW SCHEME         81           OTHER         96	
21	What kind of toilet facilities does your household have?	FLUSH TOILET	
22	Does your household have:  Electricity? A clock? A mattress? A black and white television? A colour television? A radio? A mobile phone? A land line? A refrigerator? A cooker?	YES NO	
22A	Does your household have any mosquito nets that can be used while sleeping?	YES	→23
22B	How many mosquito nets does your household have?  IF 7 OR MORE, RECORD '7'.	NUMBER OF NETS	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
23	MAIN MATERIAL OF THE FLOOR.  RECORD OBSERVATION.	NATURAL FLOOR  EARTH/SAND/RAMMED EARTH 11  DUNG 12  RUDIMENTARY FLOOR  WOOD PLANKS 21  PAPYRUS/REED/PALM MATS 22  FINISHED FLOOR  POLISHED WOOD OR  PARQUET 31  CERAMIC TILES 32  CEMENT 33  CARPET 34  BRICKS 35  OTHER 66  (SPECIFY)	
24	Does any member of your household own:  A bicycle?  A motorcycle or motor scooter?  A car or a lorry?  Any livestock?  Any poultry?	YES         NO           BICYCLE         1         2           MOTORCYCLE/SCOOTER         1         2           CAR/LORRY         1         2           LIVESTOCK         1         2           POULTRY         1         2	

# C. SUPPORT FOR VULNERABLE HOUSEHOLDS

# C1. SUPPORT FOR CHRONICALLY ILL PERSONS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
25	CHECK COLUMN 11 IN THE HOUSEHOLD SCHEDULE: NUMBER OF SICK PERSONS AGE 18-59		
	AT LEAST ONE	NONE	→ 36
26	You told me that in your household, (NUMBER) person/people has(ve) been very sick for at least three of the past 12 months.		
	I would like some information about the help or support that your household may have received from anyone besides your relatives, friends or neighbours for [that/each of those] person(s).		
27	CHECK COLUMN 11 IN THE HOUSEHOLD SCHEDULE: FIRST SICK	( PERSON	
	LINE NUMBER NAME OR	RINITIALS	
28	In the last year, besides any help or support from your relatives, friends or neighbours, has your household received:		
	a) Any material support for (NAME/INITIALS), such as monetary	YES NO DK	
	support, clothes or food for which you did not have to pay?	MATERIAL 1 2 8	
	b) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services, for which you did not have to pay?	PRACTICAL	
	c) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?	MEDICAL	
	d) Any kind of social, spiritual, or emotional support for (NAME/ INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not		
	have to pay?	PSYCHOSOCIAL 1 2 8	
29	CHECK Q.25: NUMBER OF SICK PERSONS	01/5	
	MORE THAN ONE SICK PERSON	ONE SICK PERSON	→ 36
30	CHECK COLUMN 11 IN THE HOUSEHOLD SCHEDULE: SECOND S	ICK PERSON	
	LINE NUMBER NAME OR	RINITIALS	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
31	In the last year, besides any help or support from your relatives, friends or neighbours, has your household received:		
	a) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?	YES NO I	8
	b) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services, for which you did not have to pay?	PRACTICAL 1 2	8
	c) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?	MEDICAL	8
	d) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?	PSYCHOSOCIAL 1 2	8
32	CHECK Q.25: NUMBER OF SICK PERSONS  MORE THAN TWO SICK PERSONS	TWO SICK PERSONS	→ 36
33	CHECK COLUMN 11 IN THE HOUSEHOLD SCHEDULE: THIRD SICI	< PERSON	
	LINE NUMBER NAME OF	INITIALS	_
34	In the last year, besides any help or support from your relatives, friends or neighbours, has your household received:	YES NO [	DK
	a) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?	MATERIAL 1 2	8
	b) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services, for which you did not have to pay?	PRACTICAL 1 2	8
	c) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?	MEDICAL	8
	d) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?	PSYCHOSOCIAL 1 2	8
35	CHECK Q.25: NUMBER OF SICK PERSONS  MORE THAN 3 SICK PERSONS	THREE SICK PERSONS	→ 36
	FOR MORE THAN THREE SICK PERSONS USE ADDITIONAL QUES STARTING WITH Q.27 FOR THE FOURTH SICK PERSON.	STIONNAIRES,	

# C2. SUPPORT FOR PERSONS WHO HAVE DIED

NO.	QUE	STIONS AND FILTERS		CODING CAT	EGORIES		SKIP
36	household. Think back over the p	sk you a few more question past 12 months. Has anyon n the last 12 months?	•	YES NO DON'T KNOW		2	→ 49 → 49
37	How many household	d members died in the last	12 months?	NO. OF PERSONS			
or w	/hat was the name r initials of the person rho died (most recently/ efore him/her)?	38A Was (NAME/ INITIALS) male or female? M F 1 2	38B How old was he/she when he/she died?	38C Was (NAME/II) very sick for a 3 of the 12 mc before he/she Y N 1 2	t least onths		ELIGIBLE GE 18-59 & ' ON 38C) N 2
		1 2		1 2	8	1	2
_		1 2		1 2	8	1	2
39	AT OI	BD: PERSONS 18-59 WHO  I LEAST NE 'YES'  BD: FIRST PERSON WHO		SICK NONE			49
41	friends or neighbors,  a) Any material supposupport, clothes or  b) Any practical supphousehold work, trefor which you did r  c) Any kind of medical medical care or medical care.	les any help or support from has your household receiv out for (NAME/INITIALS), so food for which you did not out for (NAME/INITIALS), so raining for caregivers, or legate that the pay?  al support for (NAME/INITIALS) adicine, for which you did not spiritual, or emotional support from the pay is spiritual, or emotional support for which you did not spiritual, or emotional support from has your formal support for which you did not spiritual, or emotional support from has your formal support from the payon from t	ed:  uch as monetary have to pay?  uch as help in gal services,  ALS), such as ot have to pay?	MATERIAL  PRACTICAL  MEDICAL	. 1 2	ODK 2 8 8 2 8	
		s companionship or advice d at home and for which yo		PSYCHOSOCIAL	. 1 :	2 8	
42	CHECK COLUMN 38		IS 18-59 WHO HAVE DIE ORE THAN NE PERSON	D AND WERE SICK  ONE  PERSON			<b>4</b> 9

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES		SKIP
43	CHECK COLUMN 38D: SECOND PERSON WHO DIED  NAME OR INITIALS			
44	In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  b) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services, for which you did not have to pay?  c) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  d) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?	YES         NO           MATERIAL         1         2           PRACTICAL         1         2           MEDICAL         1         2           PSYCHOSOCIAL         1         2	DK 8 8 8	
45	CHECK COLUMN 38D: NUMBER OF PERSONS 18-59 WHO HAVE DIE  MORE THAN TWO PERSONS	D AND WERE SICK  TWO PERSONS		→ 49
46	CHECK COLUMN 38D: THIRD PERSON WHO DIED  NAME OR INITIALS			
47	In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  b) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services, for which you did not have to pay?  c) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  d) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?	YES         NO           MATERIAL         1         2           PRACTICAL         1         2           MEDICAL         1         2           PSYCHOSOCIAL         1         2	DK 8 8 8	
48	CHECK COLUMN 38D: NUMBER OF PERSONS 18-59 WHO HAVE DIE  MORE THAN  THREE  PERSONS  FOR MORE THAN THREE PERSONS, USE ADDITIONAL QUESTIONN  STARTING WITH Q.40 FOR THE FOURTH PERSON WHO DIED.	THREE PERSONS		→ 49

# C3. SUPPORT FOR ORPHANS AND VULNERABLE CHILDREN

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
49	CHECK Q. 38B:		
	AT LEAST ONE PERSON AGE 18-59 WHO DIED AGE 18-5	NO PERSON SWHO DIED	<b>→</b> 51
50	CHECK COLUMN 5 IN THE HOUSEHOLD SCHEDULE:	NONE 00 ——	→ 68
	RECORD TOTAL NUMBER OF PERSONS AGE 0-17 YEARS	NO. OF PERSONS	→ 52A
51	CHECK COLUMN 19 IN THE HOUSEHOLD SCHEDULE: RECORD NUMBER OF CHILDREN WHOSE MOTHER.	NONE 00 ——	→ 68
	FATHER, OR BOTH ARE DEAD.	NO. OF ORPHANS	→ 52B
52A/52B	You told me that in your house-household, there is/are hold, there is/are hold, there is/are (NUMBER) child(ren) child(ren) whose (mother/father/ under 18 years old. mother and father) is/are not alive.  I would like some information about the help or support that your household may have received from anyone besides your relatives, friends or neighbors for [that child/each of those children].		
53	CHECK HOUSEHOLD SCHEDULE: FIRST ORPHAN/VULNERABLE CHIL	D	
	LINE NUMBER	R INITIALS	
54	In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:	YES NO DK	
	a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME'S/INITIALS') schooling, such as an allowance, free admission, or free books?	SCHOOLING 1 2 8	
	b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?	VOCATIONAL/TECH . 1 2 8	
	c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?	MATERIAL 1 2 8	
	d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?	PRACTICAL 1 2 8	
	e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?	MEDICAL 1 2 8	
	f) Any kind of social, spiritual, or emotional support for (NAME/ INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?	PSYCHOSOCIAL 1 2 8	
55	CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN		
	MORE THAN ONE CHILD	ONE CHILD	→ 68

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP	
56	CHECK HOUSEHOLD SCHEDULE: SECOND ORPHAN/VULNERABLE C	HILD		
	LINE NUMBER . AGE . NAME OF	RINITIALS		
57	In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:			
	a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME'S/INITIALS') schooling, such as an allowance, free admission, or free books?	YES NO DK SCHOOLING 1 2 8		
	b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?	VOCATIONAL/TECH . 1 2 8		
	c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?	MATERIAL 1 2 8		
	d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?	PRACTICAL 1 2 8		
	e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?	MEDICAL 1 2 8		
	f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?	PSYCHOSOCIAL 1 2 8		
58	CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN			
	MORE THAN TWO CHILDREN	TWO CHILDREN	→ 68	
59	CHECK HOUSEHOLD SCHEDULE: THIRD ORPHAN/VULNERABLE CHIL	D		
	LINE NUMBER	R INITIALS		
60	In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:			
	a) IF AGE 5-17, ASK: Any kind of financial or material support for     (NAME'S/INITIALS') schooling, such as an allowance, free     admission, or free books?	YES NO DK SCHOOLING 1 2 8		
	b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?	VOCATIONAL/TECH . 1 2 8		
	c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?	MATERIAL 1 2 8		
	d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?	PRACTICAL 1 2 8		
	e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?	MEDICAL 1 2 8		
	f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?	PSYCHOSOCIAL 1 2 8		
	ραy:	1 OTOTIOGOGIAL 1 Z 0		

OHECK G.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  THREE CHILDREN  CHECK HOUSEHOLD SCHEDULE: FOURTH ORPHANVULNERABLE CHILD  LINE NUMBER  In the last year, basides any help or support from your relatives, friends or neighbors, has your household received.  3) FAGE 517, ASK Any financial or material support for (NAME/SINTIALS) such as an allowance, repaired support children or look?  5) IF AGE 1317, ASK Any financial or material support for (NAME/SINTIALS) for vocational or technical training, such as an allowance or tools?  6) Any material support for (NAME/INITIALS), such as monetary aupport, clothes or flood for which you did not have to pay?  6) Any kind of medical support for (NAME/INITIALS), such as help in household work, training for careyowers, or legal services for which you did not have to pay?  7) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as monetary aupport. clothes or medicine, for which you did not have to pay?  8) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as more did not have to pay?  9) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as emotional companionship or advore from a conumerour which you received at home and for which you did not have to pay?  64 CHECK 0.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  FOUR CHILDREN  65 CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHAN/VULNERABLE CHILDREN  FOUR CHILDREN  AGE NAME OR INITIALS  NAME OR INITIALS  66 In the last year, besides any help or support from your relatives, friends or neighbors, has your household work in the way to pay to the children or neighbors, has your household work or to have to pay?  67 CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHAN/VULNERABLE CHILDREN  68 In the last year, besides any help or support from your relatives, friends or neighbors, has your household work or to have to pay?  69 (1) Any material support for (NAME/INITIALS), such as monetary support. clothes or food for which you did not have to pay?  60 (2) Any material supp	NO.	QUESTIONS AND FILTERS					
CHECK HOUSEHOLD SCHEDULE: FOURTH ORPHANYULINERABLE CHILD  LINE NUMBER	61	CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN					
In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of francial or material support for (NAME/NATILAS) is particularly support from your relatives, friends or neighbors, has your household received:  b) IF AGE 1-3-17, ASK: Any kind of francial or material support for (NAME/NATILAS) for vocational or technical training.  usuch as an allowance or tools?  c) Any material support for (NAME/NITIALS), such as monetary support, dothes or fool for which you did not have to pay?  d) Any practical support for (NAME/NITIALS), such as help in household work, training for caregivers, or logal services for within you did not have to pay?  e) Amy kind of redical support for (NAME/NITIALS), such as medical care or medicine, for which you did not have to pay?  e) Any kind of redical support for (NAME/NITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of acoids, lapitual, or emotional support for (NAME/NITIALS), such as companionship or advice from a counselor which you did not have to pay?  EACH CHECK Q.SO OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHANVULNERABLE CHILDREN  AGE . NAME OR INITIALS  CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHANVULNERABLE CHILDREN  AGE . NAME OR INITIALS  AGE . NAME OR INITIALS  CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHANVULNERABLE CHILDREN  AGE . NAME OR INITIALS  AGE . NA				→ 68			
In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME'SINITALS) echooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME'NINITALS) chooling, such as an allowance, free admission, or free books?  c) Any material support for (NAME/INITALS), such as monetary support. Johns or book for which you did not have to pay?  d) Any practical support for (NAME/INITALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  4) Any kind of necical, spiritual, or emotional support for (NAME/INITALS), such as medical care or medicine, for which you did not have to pay?  4) Any kind of necical, spiritual, or emotional support for (NAME/INITALS), such as consider which you uncertived at home and for which you did not have to pay?  5) Any kind of necical, spiritual, or emotional support for (NAME/INITALS), such as consider which you uncertived at home and for which you did not have to pay?  65 CHECK O.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  66 In the last year, besides any help or support from your relatives, finance or neighbors, has your household received.  67 In the last year, besides any help or support from your relatives, finance or neighbors, has your household received.  68 In the last year, besides any help or support from your relatives, finance or neighbors, has your household received.  68 In the last year, besides any help or support from your relatives, finance or neighbors, has your household received.  69 In the last year, besides any neighbors, proport from your relatives, finance or neighbors, and you did not have to pay?  69 Or AMESINITALS or schooling, such as an allowance, free admission, or free books?  69 Or AMESINITALS or schooling such as an allowance or books?  69 Or AMESINITALS or schooling support for (NAME/INITALS), such as help	62	CHECK HOUSEHOLD SCHEDULE: FOURTH ORPHAN/VULNERABLE CHILD					
In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME'SINITALS) echooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME'NINITALS) chooling, such as an allowance, free admission, or free books?  c) Any material support for (NAME/INITALS), such as monetary support. Johns or book for which you did not have to pay?  d) Any practical support for (NAME/INITALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  4) Any kind of necical, spiritual, or emotional support for (NAME/INITALS), such as medical care or medicine, for which you did not have to pay?  4) Any kind of necical, spiritual, or emotional support for (NAME/INITALS), such as consider which you uncertived at home and for which you did not have to pay?  5) Any kind of necical, spiritual, or emotional support for (NAME/INITALS), such as consider which you uncertived at home and for which you did not have to pay?  65 CHECK O.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  66 In the last year, besides any help or support from your relatives, finance or neighbors, has your household received.  67 In the last year, besides any help or support from your relatives, finance or neighbors, has your household received.  68 In the last year, besides any help or support from your relatives, finance or neighbors, has your household received.  68 In the last year, besides any help or support from your relatives, finance or neighbors, has your household received.  69 In the last year, besides any neighbors, proport from your relatives, finance or neighbors, and you did not have to pay?  69 Or AMESINITALS or schooling, such as an allowance, free admission, or free books?  69 Or AMESINITALS or schooling such as an allowance or books?  69 Or AMESINITALS or schooling support for (NAME/INITALS), such as help		GHESK HOUSEHOLD GOHEDGE. FORKH ON TWANGENEIVERE GHIED					
triends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/SINITALS) schooling, such as an allowance, free admission, of free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/SINITALS) schooling, such as an allowance, free admission, of the books?  c) Any material support for (NAME/INITALS), such as monetary support, dothers or food for which you did not have to pay?  d) Any practical support for (NAME/INITALS), such as monetary support, dothers or food for which you did not have to pay?  e) Any kind of medical support for (NAME/INITALS), such as medical care or medicane, for which you did not have to pay?  e) Any kind of medical support for (NAME/INITALS), such as medical care or medicane, for which you did not have to pay?  65 CHECK Q,50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN  FOUR CHILDREN  CHECK Q,50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN  MORE THAN  MORE THAN  FOUR CHILDREN  CHILDREN  AGE  CHECK G,50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN  MORE THAN  FOUR CHILDREN  CHILDREN  AGE  CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHANVVULNERABLE CHILDREN  MORE THAN  FOUR CHILDREN  CHILDREN  AGE  CHECK G,50 OR 51: NUMBER or ORPHANS/VULNERABLE CHILDREN  MORE THAN  FOUR CHILDREN  CHILDREN  AGE  CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHANVVULNERABLE CHILDREN  AGE  SCHOOLING  1 2 8  FOUR AMERICANITALS SCHOOLING, such as an allowance, free admission, or fee books?  c) JIF AGE 5-17. ASK: Any kind of financial or material support for (NAME/INITIALS), such as monetary support, dothers or food for which you did not have to pay?  d) Any gractical support for (NAME/INITIALS), such as monetary support, dothers or food for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any k		LINE NUMBER . AGE . NAME OR INITIALS					
triends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/SINITALS) schooling, such as an allowance, free admission, of the books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/SINITALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITALS), such as monetary support, dothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of scalia, splitual, or emotional support for (NAME/INITALS) and a commercial care or medicine, for which you did not have to pay?  65 CHECK Q,50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN  FOUR CHILDREN  FOUR CHILDREN  FOUR CHILDREN  66 In the last year, besides any help or support for myour retailves, finends or neighbors, has your household movel.  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/INITALS) such as an allowance, fore admission, or fee books?  c) Any material support for (NAME/INITALS), such as monetary support, dothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITALS), such as monetary support, dothes or food for which you did not have to pay?  d) Any material support for (NAME/INITALS), such as medical care or medicine, for which you did not have to pay?  e) Any kind of endical support for (NAME/INITALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of endical support for (NAME/INITALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of endical support for (NAME/INITALS), such as medical care or medicine, for which you did not have to pay?  g) Any kind of medical support for (NAME/INITALS), such as model care							
a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAMESINITIALS) schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAMEINITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAMEINITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAMEINITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAMEINITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAMEINITIALS), such as companionable or advice from a counselor which you received at home and for which you did not have to pay?  68  CHECK O.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  CHILDREN  GE  CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHANS/VULNERABLE CHILDREN  AGE	63						
for (NAME-SINITIALS) schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME-INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  e) Any kind of social, spiritual, or emolianel support for (NAME/INITIALS), such as medical care or medicine to pay?  64 CHECK Q.50 QR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN  FOUR CHILDREN  AGE  NAME OR INITIALS  AGE  NAME OR INITIALS  SCHOOLING  1 2 8  PRACTICAL  1 2 8  ### ADDITIONAL OF THE PROPER OR PROPERTY OR PROP			YES NO DK				
free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/NITIALS) for evacational or technical training, such as an allowance or tools?  c) Any material support for (NAME/NITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/NITIALS), such as monetary support, clothes or food for which you did not have to pay?  e) Any kind of medical support for (NAME/NITIALS), such as medical care or medicine, for which you did not have to pay?  e) Any kind of medical support for (NAME/NITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/NITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/NITIALS), such as medical care or medicine, for which you did not have to pay?  for (NAME/NITIALS) such as an allowance or such parts of the par		l '	SCHOOLING 1 2 9				
(NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  e) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  64 CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN FOUR CHILDREN  FOUR CHILDREN  65 CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHAN/VULNERABLE CHILD  LINE NUMBER AGE NAME OR INITIALS  In the last year, besides any help or support from your relatives, fineds or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/SINITIALS) such bas an allowance, free admission, or fee books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/SINITIALS) such as an allowance or foods?  c) Any material support for (NAME/INITIALS), such as monetary support, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you creeved at home and for which		l	SCHOOLING 1 2 6				
(NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  e) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  64 CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN FOUR CHILDREN  FOUR CHILDREN  65 CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHAN/VULNERABLE CHILD  LINE NUMBER AGE NAME OR INITIALS  In the last year, besides any help or support from your relatives, fineds or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/SINITIALS) such bas an allowance, free admission, or fee books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/SINITIALS) such as an allowance or foods?  c) Any material support for (NAME/INITIALS), such as monetary support, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you creeved at home and for which							
such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  64  CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN FOUR CHILDREN  AGE  NAME OR INITIALS  In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17. ASK: Any kind of financial or material support for (NAME/SINITIALS) suchooling, such as an allowance, free admission, or fee books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/SINITIALS) or vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you creaved at home and for which		l :	VOCATIONAL/TECH 1 2 8				
d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  e) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  64 CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  65 CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHANS/VULNERABLE CHILDREN  66 In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IFA GE 5-17, ASK: Any kind of financial or material support for (NAME/INITIALS) schooling, such as an allowance or tools?  b) IFA GE 13.7, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, dothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		l	Vee, men, Erzen				
d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  e) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  64 CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  65 CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHANS/VULNERABLE CHILDREN  66 In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IFA GE 5-17, ASK: Any kind of financial or material support for (NAME/INITIALS) schooling, such as an allowance or tools?  b) IFA GE 13.7, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, dothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		a) Any material augment for /NAME/INITIALS) augh as magatany					
bousehold work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  f) CHECK 0.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN FOUR CHILDREN  FOUR CHILDREN  fined sor neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/SINITIALS) schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/SINITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  d) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you creatived at home and for which		1 / -	MATERIAL 1 2 8				
bousehold work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  f) CHECK 0.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN FOUR CHILDREN  FOUR CHILDREN  fined sor neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/SINITIALS) schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/SINITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  d) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you creatived at home and for which							
e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  1) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  64 CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  65 CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHAN/VULNERABLE CHILDREN  66 In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/INITIALS) schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any kinancial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  d) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you creatived at home and for which		I					
f) Any kind of social, spiritual, or emotional support for (NAME/ INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  64 CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN FOUR CHILDREN  65 CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHANVULNERABLE CHILD  LINE NUMBER AGE . NAME OR INITIALS  66 In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  7		I	PRACTICAL 1 2 8				
f) Any kind of social, spiritual, or emotional support for (NAME/ INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  64 CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN FOUR CHILDREN  65 CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHANVULNERABLE CHILD  LINE NUMBER AGE . NAME OR INITIALS  66 In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  7		a) Any kind of modical compatition (NAME/INITIAL C) and a					
INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  64 CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  65 CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHAN/VULNERABLE CHILD  66 LINE NUMBER . AGE . NAME OR INITIALS  66 In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME:S/INITIALS) schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME:NITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which			MEDICAL 1 2 8				
INITIALS), such as companionship or advice from a counselor which you received at home and for which you did not have to pay?  64 CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  65 CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHAN/VULNERABLE CHILD  66 LINE NUMBER . AGE . NAME OR INITIALS  66 In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME:S/INITIALS) schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME:NITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which							
counselor which you received at home and for which you did not have to pay?  64  CHECK Q.50 OR 61: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN FOUR CHILDREN  65  CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHAN/VULNERABLE CHILD  LINE NUMBER . AGE . NAME OR INITIALS  66  In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/SINITIALS) schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/SINITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		1 ' ' '					
CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN  MORE THAN FOUR CHILDREN  CHILDREN  CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHAN/VULNERABLE CHILD  LINE NUMBER  AGE  NAME OR INITIALS  In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME'S/INITIALS') schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) or vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		l ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '					
MORE THAN FOUR CHILDREN CHILDREN CHILDREN  65 CHECK HOUSEHOLD SCHEDULE: FIFTH ORPHAN/VULNERABLE CHILD  LINE NUMBER AGE NAME OR INITIALS  66 In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/S/INITIALS) schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		you did not have to pay?	PSYCHOSOCIAL 1 2 8				
CHILDREN  CHILDR	64	CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN					
CHILDREN  CHILDR		MORE THAN	FOUR	68			
In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/INITIALS') schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/ INITIALS), such as companionship or advice from a counselor which you received at home and for which				, 00			
In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/INITIALS') schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/ INITIALS), such as companionship or advice from a counselor which you received at home and for which	65	CHECK HOUSEHOUD SCHEDUIJE: FIETH ORDHANI//UJI NEBARI E CHU	D.				
In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME'S/INITIALS') schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which	03	CHECK HOUSEHOLD SCHEDULE. THE THEORY HANDVOLKERABLE CHIL					
In the last year, besides any help or support from your relatives, friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME'S/INITIALS') schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		LINE NUMBER	NIITIAL O				
friends or neighbors, has your household received:  a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME'S/INITIALS') schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		LINE NUMBER AGE NAME OF	RINITIALS				
A practical support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  (a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  (b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  (c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  (d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  (e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  (f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which	66	1					
a) IF AGE 5-17, ASK: Any kind of financial or material support for (NAME'S/INITIALS') schooling, such as an allowance, free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		friends or neignbors, has your nousehold received:	YES NO DK				
free admission, or free books?  b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		a) IF AGE 5-17, ASK: Any kind of financial or material support					
b) IF AGE 13-17, ASK: Any financial or material support for (NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		l	SCHOOLING 1 2 8				
(NAME/INITIALS) for vocational or technical training, such as an allowance or tools?  c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which							
c) Any material support for (NAME/INITIALS), such as monetary support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  PRACTICAL  1 2 8  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  MATERIAL  1 2 8  PRACTICAL  1 2 8  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	VOCATIONAL/TECH . 1 2 8				
support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		I :					
support, clothes or food for which you did not have to pay?  d) Any practical support for (NAME/INITIALS), such as help in household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		c) Any material support for (NAME/INITIALS), such as monetary					
household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/ INITIALS), such as companionship or advice from a counselor which you received at home and for which		1	MATERIAL 1 2 8				
household work, training for caregivers, or legal services for which you did not have to pay?  e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/ INITIALS), such as companionship or advice from a counselor which you received at home and for which		d) Any practical support for (NAME/INITIALS), such as help in					
e) Any kind of medical support for (NAME/INITIALS), such as medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		household work, training for caregivers, or legal services	77.07.04				
medical care or medicine, for which you did not have to pay?  f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		tor which you did not have to pay?	PRACTICAL 1 2 8				
f) Any kind of social, spiritual, or emotional support for (NAME/INITIALS), such as companionship or advice from a counselor which you received at home and for which		1 ' '					
INITIALS), such as companionship or advice from a counselor which you received at home and for which		medical care or medicine, for which you did not have to pay?	MEDICAL 1 2 8				
counselor which you received at home and for which		1 ' '					
		l ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '					
you did not have to pay? PSYCHOSOCIAL 1 2 8		you did not have to pay?	PSYCHOSOCIAL 1 2 8				

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
67	CHECK Q.50 OR 51: NUMBER OF ORPHANS/VULNERABLE CHILDREN		
	MORE THAN FIVE CHILDREN, USE ADDITIONAL QUESTIONNAIRE STARTING WITH Q.53 FOR THE SIXTH ORPHAN/VULNERABLE CHILD.	FIVE CHILDREN	
68	In the last 12 months, has any member of your household received any support for income-generation activities?	YES	

4. BLOOD TESTING DECISIONS

CHECK COLUMNS (8) THROUGH (10): RECORD THE LINE NUMBER, NAME AND AGE OF ALL ELIGIBLE PERSONS

LINE NO. FROM COL.	NAME OR INITIALS	CHECK COL. (5)	RECORD WHETHER	LINE NO. OF PARENT OR	RE (LABO	READ CONSENT 2 OR CONSENT 3 (LABORATORY TECHNICIAN MUST SIGN)	ENT 3 IST SIGN)	SAMPLE COLLECTED?
(8)-(10)	FROM	•	AGE <18 MTHS	OTHER	0-59 YEARS	15-59 YEARS	0-59 YEARS	
	COL. (2)	AGE	OR ≥18 MTHS	RESPONSIBLE	BLOOD DRAW AND	SYPHILIS	STORAGE	
				ADULT	TESTING DECISION	DECISION	DECISION	
(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)
		00-171 18-592 GO TO 74	<18 MOS1 ≥18 MOS2		AGREE	AGREE1 REFUSE2 ABSENT/OTHER3	AGREE1 REFUSE	TEST TUBE1 FILTER PAPER2 NO SAMPLE3
		00-171 18-592 GO TO 74	<pre>&lt;18 MOS1 ≥18 MOS2</pre>		AGREE	AGREE	AGREE	TEST TUBE1 FILTER PAPER2 NO SAMPLE3
		00-171 18-592 GO TO 74 📤	<18 MOS1		AGREE	AGREE	AGREE	TEST TUBE1 FILTER PAPER2 NO SAMPLE3
		00-171 18-592 GO TO 74	<18 MOS1		AGREE	AGREE	AGREE	TEST TUBE1 FILTER PAPER2 NO SAMPLE3
		00-171 18-592 GO TO 74 ◆	<18 MOS1		AGREE	AGREE	AGREE	TEST TUBE1 FILTER PAPER2 NO SAMPLE3
		00-171 18-592 GO TO 74 ◆	<18 MOS1		AGREE	AGREE	AGREE	TEST TUBE1 FILTER PAPER2 NO SAMPLE3
MARK HERE I	MARK HERE IF CONTINUATION PAGE USED							

4. BLOOD TESTING DECISIONS (Continued)

CHECK COLUMNS (8) THROUGH (10): RECORD THE LINE NUMBER, NAME AND AGE OF ALL ELIGIBLE PERSONS

LINE NO.	NAME OR INITIALS	CHECK	RECORD	LINE NO. OF	REAL (1, APOP.)	READ CONSENT 2 OR CONSENT 3	TT3	SAMPLE
(8)-(10)	FROM	(6)	AGE < 18 MTHS	OTHER	0-59 YFARS	15-59 VEARS	0-59 YEARS	
(01) (0)	COL. (2)	AGE	OR ≥18 MTHS	RESPONSIBLE	BLOOD DRAW AND	SYPHILIS	STORAGE	
				ADULT	TESTING DECISION	DECISION	DECISION	
(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)
		00-171 18-592 GO TO 74 ◆	<18 MOS1 ≥18 MOS2		AGREE	AGREE	AGREE	TEST TUBE1 FILTER PAPER2 NO SAMPLE3
		00-171 18-592 GO TO 74 🛧	<18 MOS1 ≥18 MOS2		AGREE	AGREE	AGREE	TEST TUBE1 FILTER PAPER2 NO SAMPLE3
		00-171 18-592 GO TO 74 🛧	<18 MOS1 ≥18 MOS2		AGREE	AGREE	AGREE	TEST TUBE1 FILTER PAPER2 NO SAMPLE3
		00-171 18-592 GO TO 74 🛧	<18 MOS1 ≥18 MOS2		AGREE	AGREE	AGREE	TEST TUBE1 FILTER PAPER2 NO SAMPLE3
		00-171 18-592 GO TO 74 🛧	<18 MOS1 ≥18 MOS2		AGREE	AGREE	AGREE	TEST TUBE1 FILTER PAPER2 NO SAMPLE3
		00-171 18-592 GO TO 74 🛧	<18 MOS1 ≥18 MOS2		AGREE	AGREE	AGREE	TEST TUBE1 FILTER PAPER2 NO SAMPLE3
MARK HERE	MARK HERE IF CONTINUATION SHEET USED							

# UGANDA HIV/AIDS SERO-BEHAVIORAL SURVEY INDIVIDUAL QUESTIONNAIRE

# **ENGLISH**

		IDENTIFICATION				
DISTRICT						
SUB-COUNTY/DIVISION						
NAME OF HOUSEHOLD H						
CLUSTER NUMBER						
HOUSEHOLD NUMBER						
REGION						
URBAN/RURAL (URBAN=1, RURAL=2)						
URBAN/RURAL (URBAN=	1, RURAL=2)					
KAMPALA/SMALL CITY/T (KAMPALA=1, SMALL CIT	OWN/RURAL Y=2, TOWN=3, RURAL=4)					
NAME (OR INITIALS) AND	LINE NUMBER OF RESP	ONDENT				
SEX OF RESPONDENT	(MALE=1, FEMALE=2)					
		INTERVIEWER VISITS				
	1	2		3	FI	INAL VISIT
DATE					DAY	
					MONTH	
INTERVIEWER'S						R
NAME					INTERVIEWE NUMBER	
RESULT*					RESULT	
NEXT VISIT: DATE						
TIME					TOTAL NUM OF VISITS	BER
*RESULT CODES:	_				***	
1 COMPLET 2 NOT AT H		ED Y COMPLETED	7 OT	HER		
3 POSTPON		ACITATED		-	(SPECIFY	)
LANGUAGE OF QUESTIC	DNNAIRE <b>ENGLISH</b>				Q LANGUAG	GE 0 7
NATIVE LANGUAGE OF F	RESPONDENT				N LANGUAG	E
TRANSLATOR USED (NC	T AT ALL=1; SOMETIMES	=2; ALL THE TIME=3)			TRANSLATO	OR USED?
LANGUAGE: 01 ATESO		RUNYANKOLE-RUKIGA	4			
02 LUG. 03 LUG		RUNYORO-RUTORO  'ENGLISH				
04 LUO	30	3 OTHER				
	TEAM SUPERV	/ISOR			DATA EDITOR	DATA ENTRY
NAME				$\neg \vdash$		CLERK
DATE						

### SECTION 1. RESPONDENT'S BACKGROUND

INFORMED CONSENT [IF RESPONDENT IS 15-17 YEARS OLD, READ IN PRESENCE OF A PARENT OR GUARDIAN.]

Good morning/afternoon. My name is .... And I am from the Ministry of Health. The Ministry of Health is conducting a national HIV/AIDS sero-behavioral survey and we are asking people from all over the country if they can participate. This survey will help develop better health services for the people of Uganda. You have been selected at random from your community.

Participation in this survey is voluntary. If you agree to participate, I will ask you some questions about yourself (for example, your age and your education). Other questions will be about your thoughts and behavior related to your health. Some questions will be about your personal sexual behavior. This interview will take about 30 minutes. All of your answers will be kept strictly confidential.

Some questions may make you feel uncomfortable. You are free to refuse to answer any questions. Also, you can stop the interview at any time.

There are no direct benefits to you for choosing to participate in this interview. However, you will be helping MOH develop better programs to help Ugandans in the future.

At this time, do you want to ask me anything about the survey? If you have any questions at any time, we want you to tell us. You can speak to the head of the survey team or I can give you contact numbers for one of the leaders of the project or the Vice Chairman of the Ethics Committee.

[INTERVIEWER: IF CONTACT NUMBERS ARE REQUESTED, PROVIDE THE FOLLOWING NUMBERS:

Ministry of Health: Dr. Joshua Musinguzi at 041-257409 or Dr. Wilford Kirungi at 041-257409 Ethics Committee (UVRI): Dr. Pontiano Kaleebu at 041-320272]

[INTERVIEWER: RECORD DECISION ON HOUSEHOLD QUESTIONNAIRE FOR EACH ELIGIBLE PERSON AGE 15-59.]

May I begin the interview now?	
Signature of interviewer:	Date:
RESPONDENT AGREES TO BE INTERVIEWED	1 RESPONDENT DOES NOT AGREE TO BE INTERVIEWED 2→ END

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
101	RECORD THE TIME.  IF TIME IS 1:00 PM OR LATER, ADD 12 TO HOUR.	HOUR	
102	In what month and year were you born?	MONTH	
103	How old were you at your last birthday?  COMPARE AND CORRECT 102 AND/OR 103 IF INCONSISTENT.	AGE IN COMPLETED YEARS	
104	Have you ever attended school?	YES	→ 107
105	What is the highest level of school you attended: primary, '0' level, 'A' level, or university or tertiary?	PRIMARY         1           'O' LEVEL         2           'A' LEVEL         3           UNIVERSITY/TERTIARY         4	
106	What is the highest (class/year) you completed at that level?	CLASS/YEAR	
107	Do you read a newspaper or magazine almost every day, at least once a week, less than once a week or not at all?	ALMOST EVERY DAY       1         AT LEAST ONCE A WEEK       2         LESS THAN ONCE A WEEK       3         NOT AT ALL       4         CANNOT READ       8	

NO.	QUESTIONS A	ND FILTERS	CODING CATEGORIES	SKIP
108	Do you listen to the radio almost less than once a week or not at	t every day, at least once a week, all?	ALMOST EVERY DAY 1 AT LEAST ONCE A WEEK 2 LESS THAN ONCE A WEEK 3 NOT AT ALL 4	
109	Do you watch television almost of less than once a week or not at	every day, at least once a week, all?	ALMOST EVERY DAY 1 AT LEAST ONCE A WEEK 2 LESS THAN ONCE A WEEK 3 NOT AT ALL 4	
110	MALE Are you currently working?	As you know, some women take up jobs for which they are paid in cash or kind.  Others sell things, have a small business or work on the family farm or in the family business.  Are you currently doing any of these things or any other work?	YES	<b>→</b> 112
111	Have you done any work in the l	last 12 months?	YES	<b>→</b> 113
112	What is your occupation, that is, mainly do?  INTERVIEWER: PROBE TO OE INFORMATION ON THE KIND of DOES.	BTAIN DETAILED		114
113	What have you been doing for n 12 months?	nost of the time over the last	GOING TO SCHOOL/STUDYING 01  LOOKING FOR WORK 02  RETIRED 03  TOO ILL TO WORK 04  HANDICAPPED, CANNOT WORK 05  HOUSEWORK/CHILD CARE 06  OTHER 96  (SPECIFY)	
114	How long have you been living of CURRENT PLACE OF RESIDE  IF LESS THAN ONE YEAR, RE	NCE)?	YEARS 95 VISITOR 96	
115	What is your religion?		CATHOLIC         01           ANGLICAN/PROTESTANT         02           SDA         03           ORTHODOX         04           PENTECOSTAL         05           OTHER CHRISTIAN         06           MOSLEM         07           BAHAI         08           OTHER NON-CHRISTIAN         09           TRADITIONAL         10           NONE         11	
116	What is your ethnic group?		ETHNIC GROUP	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
117	Have you ever had a blood transfusion?	YES	<b>→</b> 119
118	When was the <u>last</u> time you had a blood transfusion?	DAYS AGO 1	
119	In the last 12 months, have you received any injections that were given to you by a doctor, a nurse, a pharmacist, or another health professional?	YES	121
120	In the last 12 months, how many injections have you received from a doctor, a nurse, or another health professional?	NUMBER OF INJECTIONS	
121	Have you ever had an immunization against yellow fever?	YES	123
122	When was the <u>last</u> time you had an immunization against yellow fever?	MONTHS AGO	
123	In your work or at home, do you have any contact with the blood of other persons?	AT WORK ONLY       1         AT HOME ONLY       2         AT WORK AND AT HOME       3         NO, NEITHER       4	
124	In the last three months, how many times did you seek health care outside of your home?	NONE	→ 201
125	The <u>last</u> time you went for health care, where did you go?  IF SOURCE IS HOSPITAL, HEALTH CENTER, OR CLINIC, WRITE THE NAME OF THE PLACE. PROBE TO IDENTIFY THE TYPE OF SOURCE AND CIRCLE THE APPROPRIATE CODE.  (NAME OF PLACE)	PUBLIC SECTOR  GOVERNMENT HOSPITAL	
		PRIVATE MEDICAL SECTOR           PRIVATE HOSPITAL/PRIVATE         21           CLINIC/DOCTOR         21           PHARMACY/DRUG SHOP         22           MOBILE CLINIC         23           FIELDWORKER         24           OTHER PRIVATE         MEDICAL           MEDICAL         (SPECIFY)	
		OTHER SOURCE SHOP	

## SECTION 2. REPRODUCTION

NO.	QUESTIONS AND	FILTERS	CODING CATEGORIES	SKIP
201	Now I would like to ask about all of the children you have had during your lifetime. I am interested only in the children that are biologically yours. Have you ever fathered any children with any woman?	FEMALE Now I would like to ask about all of the births you have had during your lifetime. Have you ever given birth?	YES	→ 206
202	Do you have any children whom you have fathered who are now living with you?	Do you have any children to whom you have given birth who are now living with you?	YES	<b>→</b> 204
203	How many children whom you have fathered are living with you?	How many children to whom you have given birth are living with you?	CHILDREN AT HOME	
204	Do you have any children whom you have fathered who are alive but do not live with you?	Do you have any children to whom you have given birth who are alive but do not live with you?	YES	<b>→</b> 206
205	How many children live elsewhere	?	CHILDREN LIVING ELSEWHERE	
206	MALE Have you ever fathered a child who was born alive but later died? Any baby who cried or showed signs of life but did not survive?	FEMALE  Have you ever given birth to a child who was born alive but later died?  Any baby who cried or showed signs of life but did not survive?	YES	<b>→</b> 208
207	How many children have died?		CHILDREN DEAD	
208	SUM ANSWERS TO 203, 205, AN IF NONE, RECORD '00'.	D 207, AND ENTER TOTAL.	TOTAL	
209	Just to make sure that I have this right: you have fathered children in your lifetime. Is that correct?	Just to make sure that I have this right: you have had births in your lifetime. Is that correct?  PROBE AND CORRECT 201-208 AS NECESSARY.		
210	MALE FEMALE		<b>-</b>	301

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
211	CHECK 208: ONE OR MORE NO BIRTHS BIRTHS	<b>————</b>	216
212	Now I would like to ask you about your last birth, whether the child is still alive or not. In what month and year did you have your last birth?	MONTH	> 214
213	About how many years ago was your last birth?	YEARS AGO	
214	Was this birth registered?	YES	<b>1</b> →216
215	Where was the birth registered?	LOCAL COUNCIL (LC I, II, III)       1         DISTRICT       2         PARISH/SUB-COUNTY       3         HOSPITAL       4         HEALTH CENTER       5         REGISTRAR OF BIRTHS       6         OTHER       7	
216	CHECK 103:  AGE 15-49  AGE 50-59	-	301
217	Are you pregnant now?	YES	
218	At the time you became pregnant, did you want to become pregnant then, did you want to wait until later, or did you not want to have any (more) children at all?	THEN	→ 301 → 301 → 301
219	Are you currently doing something or using any method to delay or avoid getting pregnant?	YES	→ 301
220	Which method are you using?  RECORD ALL MENTIONED.	FEMALE STERILIZATION         A           MALE STERILIZATION         B           PILL         C           IUD/COIL         D           INJECTIONS         E           IMPLANTS         F           CONDOM         G           FEMALE CONDOM         H           DIAPHRAGM         I           FOAM/JELLY         J           LACTATIONAL AMENORRHEA         METHOD (LAM)           METHOD (LAM)         K           PERIODIC ABSTINENCE/RHYTHM         L           WITHDRAWAL         M           OTHER         X	

# SECTION 3. MARRIAGE AND SEXUAL ACTIVITY

NO.	QUESTIONS A	ND FILTERS	CODING CATEGORIES	SKIP
301	MALE Have you ever been married or lived together with a woman as if married?	FEMALE Have you ever been married or lived together with a man as if married?	YES	<b>→</b> 312
302	Are you currently married or living together with a woman as if married?	Are you currently married or living together with a man as if married?	YES	→ 306
303	At this time, do you have more than one wife or woman with whom you are living as if married?	Besides yourself, does your husband/partner have other wives or does he live with any other women as if married?	YES	→ 305
304	Altogether, how many wives or live-in partners do you have now?	Including yourself, how many wives or live-in partners does your husband/partner have now?	NUMBER OF WIVES AND LIVE-IN PARTNERS	
305	NUMBER(S) FROM THE HOUS SPOUSE(S) AND LIVE-IN PART IS NOT LISTED IN THE HOUSE  FEMALE Please tell me husband (the	NER(S). IF THE PERSON	NAME/INITIALS LINE NO	
	MALE CHECK 303 A IF ONE WIFE name or initial you are now l	AND 304: E/PARTNER: Please tell me the lis of your wife (the woman iving with as if married).  ORDING, GO TO 306.	NAME/INITIALS	
	Please tell mo of your currer woman you a	AN ONE WIFE/PARTNER: e the name or initials of each nt wives (and/or of each re now living with as if married). ORDING, SKIP TO 307B.	NAME/INITIALS	
306	MALE Have you been married or lived with a woman only once or more than once?	FEMALE Have you been married or lived with a man only once or more than once?	ONLY ONCE	→ 307B

NO.	QUESTIONS AI	ND FILTERS	CODING CATEGORIES	SKIP
	MALE	FEMALE		
307A	In what month and year did you start living with your wife/partner? (IF YEAR IS KNOWN, SKIP TO 309; ELSE, SKIP TO 308)	In what month and year did you start living with your husband/partner? (IF YEAR IS KNOWN, SKIP TO 309; ELSE, SKIP TO 308)	MONTH	
307B	Now I would like to ask about when you married or began living with a woman as if married for the very first time.	Now I would like to ask about about when you married or began living with a man as if married for the very first time.	DON'T KNOW MONTH 98  YEAR 9998	→ 309
	In what month and year did you <u>first</u> marry or start living with a woman as if married?	In what month and year did you <u>first</u> marry or start living with a man as if married?		
308	How old were you when you started living with her?	How old were you when you started living with him?	AGE	
309	CHECK 302: CURRENTLY MAR	RRIED OR LIVING TOGETHER?		
	YES T	NO		→ 311
310	CHECK 306:			
	ONLY ONCE			→ 312
	MORE THAN ONCE			
311	Do you have a previous wife/hus	band who died?	YES	
312	Now I need to ask you some que order to gain a better understand		NEVER 00	→ 343
	How old were you when you <u>first</u> (if ever)?	had sexual intercourse	AGE IN YEARS	
			FIRST TIME WHEN STARTED LIVING WITH (FIRST) HUSBAND/WIFE/PARTNER	
313	CHECK 103: AGE 15-24	AGE 25-59		<b>→</b> 316
314	The <u>first</u> time you had sexual into	ercourse, was a condom used?	YES	
315	The first time you had sexual into have sex, did you both agree to partner to have sex?		FORCED TO HAVE SEX 1 BOTH AGREED TO IT 2 FORCED PARTNER TO HAVE SEX 3	
316	When was the <u>last</u> time you had	sexual intercourse?	DAYS AGO 1	
	RECORD 'YEARS AGO' ONLY I ONE OR MORE YEARS AGO. I	F 12 MONTHS OR MORE,	WEEKS AGO 2	
	ANSWER MUST BE RECORDE	D IN YEARS.	MONTHS AGO 3	
			YEARS AGO 4	342
				<b>├</b>

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
317	The last time you had sexual intercourse, was a condom used?	YES	→ 319
318	Why wasn't a condom used the last time you had sexual intercourse?  PROBE: Any other reasons?  RECORD ALL MENTIONED.	NO KNOWLEDGE OF CONDOMS A NO KNOWLEDGE OF SOURCE B SOURCE NOT ACCESSIBLE C DID NOT HAVE A CONDOM THEN D COST TOO MUCH E TOO MESSY/INCONVENIENT F CONDOMS NOT EFFECTIVE G DOESN'T LIKE CONDOMS H RESPONDENT WANTED TO GET PREGNANT/WANTED PARTNER TO GET PREGNANT I TRUST SPOUSE/PARTNER, SPOUSE /PARTNER DOES'NT HAVE DISEASE J RESPONDENT DOESN'T HAVE A DISEASE K PARTNER INSISTED ON NOT USING L RELIGIOUS PROHIBITION M OTHER X	
319	What was your relationship to the person with whom you last had sex?  IF BOYFRIEND/GIRLFRIEND: Were you living together as if married at that time?	HUSBAND/WIFE	323
320	CHECK 103:  AGE 15-24  AGE 25-59		→ 323
321	How old is this woman/man?	AGE OF PARTNER	→ 323
322	Do you think that she/he is at least 10 years older than you?	YES, 10 OR MORE YEARS OLDER	
323	The last time you had sexual intercourse, did you or your partner drink alcohol? IF YES: Who was drinking?	RESPONDENT ONLY 1 PARTNER ONLY 2 RESPONDENT AND PARTNER 3 NEITHER 4	
324	Have you had sex with any other person in the last 12 months?	YES	→ 342
325	The last time you had sexual intercourse with another person, was a condom used?	YES	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
326	What was your relationship to this person at that time?  IF BOYFRIEND/GIRLFRIEND: Were you living together as if married?	HUSBAND/WIFE	330
327	CHECK 103: AGE 15-24 AGE 25-59		→ 330
328	How old is this woman/man?	AGE OF PARTNER	→ 330
329	Do you think that she/he is at least 10 years older than you?	YES, 10 OR MORE YEARS OLDER	
330	The last time you had sexual intercourse with this partner, did you or your partner drink alcohol? IF YES: Who was drinking?	RESPONDENT ONLY       1         PARTNER ONLY       2         RESPONDENT AND PARTNER       3         NEITHER       4	
331	Other than these two people, have you had sex with anyone else in the last 12 months?	YES	→ 342
332	The last time you had sexual intercourse with this third person, was a condom used?	YES	
333	What was your relationship to this person at that time?  IF BOYFRIEND/GIRLFRIEND: Were you living together as if married at that time?	HUSBAND/WIFE	337
334	CHECK 103:  AGE 15-24  AGE 25-59		→ 337
335	How old is this woman/man?	AGE OF PARTNER	→ 337
336	Do you think that she/he is at least 10 years older than you?	YES, 10 OR MORE YEARS OLDER 1 NO, LESS THAN 10 YEARS OLDER 2 OLDER, DON'T KNOW DIFFERENCE 3 SAME AGE 4 YOUNGER 5 DON'T KNOW 8	

NO.	QUESTIONS AI	ND FILTERS	CODING CATEGORIES	SKIP
337	The last time you had sexual into you or your partner drink alcohol IF YES: Who was drinking?	· · · · · · · · · · · · · · · · · · ·	RESPONDENT ONLY       1         PARTNER ONLY       2         RESPONDENT AND PARTNER       3         NEITHER       4	
338	In total, how many different peop the last 12 months?	ole have you had sex with in	NUMBER OF PARTNERS	
339	MALE	FEMALE		
	In the last 12 months, did you pay anyone to have sex?	In the last 12 months, did any man pay you to have sex?	YES	→ 342
340	The last time you paid someone to have sex, was a condom used?	The last time you were paid to have sex, was a condom used?	YES	→ 342
341	Do you use a condom all the time or only sometimes when you pay to have sex?	Is a condom used all the time or only sometimes when you are paid to have sex?	ALL THE TIME	
342	In total, how many different peop your lifetime?	ole have you had sex with in	NUMBER OF PARTNERS	
	IF NON-NUMERIC ANSWER, P	ROBE TO GET AN ESTIMATE.	DON'T KNOW	
	IF NUMBER OF PARTNERS IS WRITE '95.'	GREATER THAN 95,		
343	Do you know of a place where a	person can get condoms?	YES	→ 345
344	Where is that?		PUBLIC SECTOR	
			GOVERNMENT HOSPITAL A GOVT. HEALTH CENTER B	
	PROBE: Any other place?		FAMILY PLANNING CLINIC C MOBILE CLINIC D	
	RECORD ALL PLACES MENTIC	ONED.	GOVT. COMMUNITY BASED  DISTRIBUTOR E	
			OTHER PUBLIC F (SPECIFY)	
			PRIVATE MEDICAL SECTOR	
			PRIVATE HOSPITAL/PRIVATE CLINIC/DOCTOR G	
			PHARMACY/DRUG STORE H	
			MOBILE CLINIC I FIELDWORKER J	
			OTHER PRIVATE	
			MEDICAL K (SPECIFY)	
			OTHER SOURCE	
			SHOP L	
			TRADITIONAL HEALER M RELIGIOUS INSTITUTION N	
			STREET VENDOR O	
			BAR P FRIENDS/RELATIVES Q	
			LODGE R	
			OTHER X	
			(SPECIFY)	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
345	ANY 'YES' IN 314, 317, 325, 332, 340 OR NEVER IN Q312 OTHER		400
346	Have you ever used a condom?	YES	

# SECTION 4. HUSBAND'S BACKGROUND

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
400	MALE FEMALE FEMALE		→ 501
401	CHECK 301 AND 302:  CURRENTLY FORMERLY MARRIED/ LIVING WITH A MAN A MAN	NEVER MARRIED AND NEVER LIVED WITH A MAN	→ 403 → 501
402	How old was your husband/partner on his last birthday?	AGE IN COMPLETED YEARS	
403	Did your (last) husband/partner ever attend school?	YES	→ 406
404	What was the highest level of school he attended: primary, '0' level, 'A' level, or university or tertiary?	PRIMARY       1         'O' LEVEL       2         'A' LEVEL       3         UNIVERSITY/TERTIARY       4         DON'T KNOW       8	<b>→</b> 406
405	What was the highest (class/year) he completed at that level?	CLASS/YEAR	
406	CHECK 401: CURRENTLY MARRIED/ LIVING WITH A MAN  What is your husband's/ partner's occupation? That is, what kind of work does he mainly do?  What was your (last) husband's/ partner's occupation? That is, what kind of work does he mainly do?  INTERVIEWER: PROBE TO OBTAIN DETAILED INFORMATION ON THE KIND OF WORK HUSBAND/PARTNER DOES.		

## SECTION 5. HIV/AIDS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
501	Now I would like to talk about something else. Have you ever heard of an illness called AIDS?	YES	→ 601
502	What are the main channels of communication from which you receive HIV/AIDS information and education?  PROBE: Any other channels?  RECORD ALL MENTIONED.	RADIO	
503	CHECK 502:  MORE THAN ONE ONLY ONE RESPONSE CIRCLED  CIRCLED		505
504	From which source have you learned most about HIV or AIDS?	RADIO       01         TELEVISION       02         FILM       03         DRAMA       04         NEWSPAPERS/MAGAZINES       05         BROCHURES       06         POSTERS       07         BILLBOARDS       08         COMMUNITY NOTICES       09         FAMILY       10         FRIENDS       11         PEERS       12         HEALTH WORKERS       13         TEACHERS       14         POLITICAL LEADERS       15         TRADITIONAL LEADERS       16         RELIGIOUS LEADERS       17         INTERNET       18         OTHER       19         (SPECIFY)	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
505	What is the most important message you have learned from this source?	ABSTAIN FROM SEX	
506	Can people reduce their chances of getting the AIDS virus by having just one sex partner who is not infected and who has no other partners?	YES	
507	Can people get the AIDS virus from mosquito bites?	YES	
508	Can people reduce their chances of getting the AIDS virus by using a condom every time they have sex?	YES	
509	Can people get the AIDS virus by sharing food with a person who has AIDS?	YES	
510	Can people reduce their chance of getting the AIDS virus by not having sex at all?	YES	
511	Can people get the AIDS virus because of witchcraft or other supernatural means?	YES	
512	Is there anything (else) a person can do to avoid or reduce the chances of getting AIDS or the virus that causes AIDS?	YES	J <sub>514</sub>

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
513	What can a person do?	ABSTAIN FROM SEX A USE CONDOMS B LIMIT SEX TO ONE PARTNER/STAY FAITHFUL TO ONE PARTNER C LIMIT NUMBER OF SEXUAL	
	PROBE: Anything else?	PARTNERS	
	RECORD ALL WAYS MENTIONED.	AVOID SEX WITH HOMOSEXUALS G AVOID SEX WITH PERSONS WHO INJECT DRUGS INTRAVENOUSLY H AVOID BLOOD TRANSFUSIONS I AVOID INJECTIONS J AVOID SHARING RAZORS/BLADES K AVOID KISSING L AVOID MOSQUITO BITES M SEEK PROTECTION FROM TRADITIONAL HEALER N AVOID MOSQUITO BITES M ASK SPOUSE/PARTNER TO GET TESTED O OTHER SYMMETRIC STORM (SPECIFY) DON'T KNOW Z	
514	Have you heard of any drugs that <u>can cure</u> a person who has the virus that causes AIDS?	YES	
515	Have you heard of any drugs that <u>can prolong the life</u> of a person who has the virus that causes AIDS?	YES	<b>→</b> 519
516	What drugs do you know about?  PROBE: Any other drugs?  RECORD ALL MENTIONED.	ANTI-RETROVIRAL DRUGS (ARVs) A HERBAL DRUGS B OTHER DRUGS X  (SPECIFY) DON'T KNOW Z	
517	CHECK 516:		
	CODE 'A' CIRCLED CODE 'A' NOT CIRCLED		<b>519</b>
518	For how long should a person with the AIDS virus take ARVs?	LESS THAN ONE YEAR       1         ONE YEAR OR MORE       2         REST OF LIFE       3         OTHER       6         (SPECIFY)         DON'T KNOW       8	
519	If a <u>man</u> has the virus that causes AIDS, does his sexual partner always have the AIDS virus, almost always, or only sometimes?	ALWAYS       1         ALMOST ALWAYS       2         ONLY SOMETIMES       3         DON'T KNOW       8	
520	If a <u>woman</u> has the virus that causes AIDS, does her sexual partner always have the AIDS virus, almost always, or only sometimes?	ALWAYS 1 ALMOST ALWAYS 2 ONLY SOMETIMES 3 DON'T KNOW 8	
521	Is it possible for a healthy-looking person to have the AIDS virus?	YES	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
522	Can the virus that causes AIDS be transmitted from a mother to a child?	YES	]
523	Can the virus that causes AIDS be transmitted from a mother to a child:	YES NO DK	
	During pregnancy? During delivery? By breastfeeding?	DURING PREGNANCY. 1 2 8 DURING DELIVERY 1 2 8 BREASTFEEDING 1 2 8	
524	Are there any special drugs that a doctor or nurse can give to a pregnant woman infected with the AIDS virus to reduce the risk of transmission to the baby?	YES	
525	If you knew that a market vendor had the AIDS virus, would you buy sugar or fresh vegetables or other food from that person?	YES	
526	If a member of your family got infected with the virus that causes AIDS, would you want it to remain a secret or not?	YES, REMAIN A SECRET       1         NO       2         DK/NOT SURE/DEPENDS       8	
527	If a relative of yours became sick with the virus that causes AIDS, would you be willing to care for her or him in your own household?	YES       1         NO       2         DK/NOT SURE/DEPENDS       8	
528	If a female teacher has the AIDS virus but is not sick, should she be allowed to continue teaching in the school?	CAN CONTINUE         1           SHOULD NOT CONTINUE         2           DK/NOT SURE/DEPENDS         8	
529	Should children age 12-14 be taught about using a condom to avoid AIDS?	YES       1         NO       2         DK/NOT SURE/DEPENDS       8	
530	What are the chances that you yourself might get the virus that causes AIDS would you say it is very likely, somewhat likely, not likely, or there is no chance at all?	VERY LIKELY         1           SOMEWHAT LIKELY         2           NOT LIKELY         3           NO CHANCE AT ALL         4           ALREADY HAVE HIV OR AIDS         5           DK/NOT SURE/DEPENDS         8	
531	MALE FEMALE FEMALE		541
532	CHECK 212 AND 213: NO BIRTHS (212 BL	ANK)	<b>→</b> 541
	LAST BIRTH SINCE  JANUARY 2002/  WITHIN PAST 2 YEARS  LAST BIRTH BEF  JANUARY 2  THREE YE  OR MORE	2002/	→ 541
533	Now I would like to ask some questions about your last birth.  Did you see anyone for antenatal care during that pregnancy?	YES	<b>→</b> 541

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
534	During any of the antenatal visits for that pregnancy, did anyone talk to you about:  Children getting the AIDS virus from their mother?	YES NO DK AIDS FROM MOTHER 1 2 8	
	Getting tested for the AIDS virus? Things that you can do to prevent getting the AIDS virus? Getting tested for syphilis? Using family planning?	AIDS TEST	
535	I don't want to know the results, but were you tested for the AIDS virus during any of your antenatal care visits?	YES	→ 541
536	Did you yourself ask for the test, was it offered to you and you accepted, or was it required?	ASKED FOR THE TEST 1 OFFERED AND ACCEPTED 2 REQUIRED 3	
537	I don't want to know the results, but did you get the results of the test?	YES	<b>→</b> 539
538	Did you tell your husband/(any of) your partner(s) your HIV status?	YES	
539	Where was the test done?  IF SOURCE IS HOSPITAL, HEALTH CENTER, OR CLINIC, WRITE THE NAME OF THE PLACE. PROBE TO IDENTIFY THE TYPE OF SOURCE AND CIRCLE THE APPROPRIATE CODE.  (NAME OF PLACE)	PUBLIC SECTOR  GOVERNMENT HOSPITAL	
540	Have you been tested for the AIDS virus since that time you were tested during your pregnancy?	(SPECIFY)  YES	→ 542 → 552
541	I don't want to know the results, but have you ever been tested to see if you have the AIDS virus?	YES	549
542	When was the last time you were tested?	LESS THAN 12 MONTHS AGO       1         12-23 MONTHS AGO       2         2 YEARS AGO OR MORE       3	
543	The last time you had the test, did you yourself ask for the test, was it offered to you and you accepted, or was it required?	ASKED FOR THE TEST         1           OFFERED AND ACCEPTED         2           REQUIRED         3	
544	I don't want to know the results, but did you get the results of the test?	YES	<b>→</b> 548

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
545	CHECK 302: CURRENTLY MARRIED OR LIVING TOGETHER? YES NO OR BLANK		547
546	CHECK 312: EVER HAD SEX?  NEVER HAD SEX (CODE '00')  OTHER ANSWER		<b>→</b> 548
547	Did you tell (any of) your spouse(s)/partner(s) your HIV status?	YES	
548	In your lifetime, how many times have you been tested to see if you have the AIDS virus?	TIMES	→ 550
549	Why have you never had a test for the AIDS virus?  PROBE: Any other reason?  RECORD ALL MENTIONED.	NO KNOWLEDGE ABOUT HIV TEST . A DON'T KNOW WHERE TO GET ONE . B TEST COSTS TOO MUCH	
550	CHECK 302: CURRENTLY MARRIED OR LIVING TOGETHER?  YES  NO OR BLANK		→ 552
551	CHECK 312: EVER HAD SEX?  NEVER HAD SEX (CODE '00')  OTHER ANSWER		→ 601
552	CHECK 538 AND 547:  "YES IN EITHER OR BOTH  OTHER		<b>→</b> 554
553	Have you ever discussed AIDS or the virus that causes AIDS with your spouse(s)/(any of) your partner(s)?	YES (WITH ALL)       1         DISCUSSED WITH SOME       2         NO, NEVER DISCUSSED       3	
554	Do you know whether or not your spouse(s)/(any of) your partner(s) has the virus that causes AIDS?	YES, KNOW STATUS (FOR ALL)	

## SECTION 6. OTHER REPRODUCTIVE HEALTH ISSUES

NO.	QUESTIONS AND FILTERS		CODING CATEGORIES	SKIP
601	MALE 🖵	FEMALE		603
602	,		YES	
603	Have you ever undergone any (or that involve tattooing or cutting or		YES	
604	Apart from AIDS, have you hear can be transmitted through sexu		YES	
605	CHECK 312: HAS HAD SEXUAL INTERCOURSE	HAS NOT HAD SEXUAL INTERCOURSE		613
606	CHECK 604: HEARD ABOUT INFECTION TRANSMITTED THROUGH SEXUAL CONTACT  HAS NOT HEARD ABOUT INFECTION TRANSMITTED THROUGH SEXUAL CONTACT		→ 608	
607	the last 12 months. During the last 12 months, have you had a		YES	
608	Sometimes men experience an abnormal discharge from their penis. During the last 12 months, have you had an abnormal discharge from your penis?	Sometimes women experience a bad smelling abnormal genital discharge.  During the last 12 months, have you had a a bad smelling abnormal genital discharge?	YES	
609	Sometimes men have a sore or ulcer on or near their penis. During the last 12 months, have you had a sore or ulcer on or near your penis?	Sometimes women have a genital sore or ulcer. During the last 12 months, have you had a genital sore or ulcer?	YES	
610	CHECK 607, 608, 609: HAS HAD AN INFECTION (ANY 'YES')	HAS NOT HAD AN INFECTION OR DOES NOT KNOW		→ 613
611	The last time you had (PROBLE seek any kind of advice or treatn		YES	<b>→</b> 613

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
612	Where did you go?  PROBE: Any other place?  RECORD ALL MENTIONED.	PUBLIC SECTOR  GOVERNMENT HOSPITAL A  GOVT. HEALTH CENTER B  FAMILY PLANNING CLINIC C  MOBILE CLINIC D  FIELDWORKER E	
		OTHER PUBLIC (SPECIFY)  PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/PRIVATE CLINIC/DOCTOR G PHARMACY/DRUG STORE H MOBILE CLINIC I FIELDWORKER J OTHER PRIVATE MEDICAL K (SPECIFY)  OTHER SOURCE SHOP L	
		TRADITIONAL HEALER M OTHER X (SPECIFY)	
613	Husbands and wives do not always agree on everything. Please tell me if you think a wife is justified in refusing to have sex with her husband when she knows he has a disease that can her be transmitted through sexual contact?	YES	
614	When a wife knows her husband has a disease that can be transmitted through sexual contact, is she justified in asking that they use a condom when they have sex?	YES	
615	RECORD THE TIME.  IF TIME IS 1:00 PM OR LATER, ADD 12 TO HOUR.	HOUR	

## INTERVIEWER'S OBSERVATIONS

## TO BE FILLED IN AFTER COMPLETING INTERVIEW

COMMENTS ABOUT RESPONDENT:		
COMMENTS ON SPECIFIC QUESTIONS:		
ANY OTHER COMMENTS:		
	SUPERVISOR'S OBSERVATIONS	
NAME OF THE SUPERVISOR:	DATE:	