

Looking deeper into the HIV epidemic:

A questionnaire for tracing sexual networks

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1. Introduction

The sexual network questionnaire appended hereto is similar in many respects to the prevention indicators questionnaire [1]; the primary difference is that the new module asks for considerably more detail about each relationship the survey respondent participates in. While UNAIDS still enthusiastically endorses the use of the earlier package, especially for evaluating national programmes, the need for more insights into sexual networks for understanding the dynamics of the epidemic has become apparent.

This new questionnaire is part of an attempt to gain those insights—it is recommended for use in countries where managers of AIDS programmes and researchers are primarily interested in gaining additional information on sexual mixing patterns for intervention purposes.

Population surveys have a central and valuable role to play in the measurement of two of the main determinants of the rate of HIV transmission: number of sexual partners and use of condoms during sexual intercourse. Measurement of these determinants over time is crucial for the evaluation of prevention programmes.

In recognition of that fact, WHO/GPA developed in 1994 a package entitled *Evaluation of a national AIDS programme: A methods package—1. Prevention of HIV infection* [1].

Among the array of methods to measure HIV/AIDS prevention-related indicators, a central place was given to repeated population surveys as a tool for better understanding of the sexual risk behaviours in the general population and of the impact of programme activities on those risk behaviours.

The GPA package gives a comprehensive overview of the design of population surveys and of the necessary steps to be undertaken in the planning of such surveys. There is detailed discussion of objectives; measurement of selected prevention indicators; questionnaire content and design; sampling; training of field staff and collection of data; data management, analysis and reporting; survey timetables; and in-country survey costs.

The methods package, including the population survey, has been used extensively over the four years since it was published. More than 30 countries have carried out geographically focused population surveys for evaluation purposes, while some 60 countries have used other parts of the package for evaluation of their own national programmes [2, 3]. This effort is expected to continue with the support of UNAIDS, cosponsors and bilateral and multilateral agencies. In particular, UNAIDS is encouraging repeated surveys that would allow monitoring of behaviour change over time.

National AIDS programmes around the world are currently using epidemiological fact sheets in which the prevention indicators are an essential element.

2. The individual questionnaire for evaluation

The questionnaire for the measurement of four prevention indicators [1] is divided into eight sections: identification; background characteristics; marriage and regular partnerships; non-regular and commercial sex; condoms; STDs and health issues; knowledge of AIDS; and risk perception, behaviour change and attitudes toward persons with HIV/AIDS.

The main purpose of the sections on marriage and sexual partners was to measure sexual risk behaviour for each individual respondent. The sequence of questions was carefully designed to progress from consideration of marriage to other regular partnerships and finally to more transient and potentially high risk sexual relationships. Clearly, these

distinctions are multi-dimensional and complex. Any comprehensive classification would have to take into account not only the persistence of the relationship over time but also the associated expectations and obligations.

A blunt and somewhat oversimplified solution was reached: a regular partner was defined as a person with whom the respondent has a relationship involving sexual intercourse for a period of 12 months or more; anyone else is a non-regular partner. Among non-regular partnerships, a commercial sex encounter was defined as a relationship where sex was exchanged for money and where partners did not know each other [4].

The underlying principle was that the concept of non-regular partnerships can be conveyed clearly by interviewers only after careful definition and measurement

of regular partnerships. Sexual intercourse within such regular relationships carries a low risk of HIV infection, provided that the partnership is mutually exclusive (and of course that neither party is already infected).

This questionnaire design has proved to be successful in identifying who was at increased risk of HIV, with what type of behaviour and where. These surveys have been very informative for the evaluation and development of prevention strategies. However, programme designers and researchers may want to go beyond those objectives and be interested in better explaining why, within the same “risk behaviour” groups, certain people are more likely to be HIV infected than others. Insights into that question will require information on how different individuals are connected via risk networks.

3. Risk networks: the need for research in sexual networks

Mathematical models show that different patterns of sexual mixing have widely different implications for the spread of the HIV epidemic [5, 6, 7]. If people mix within relatively closed groups—homosexuals only with homosexuals, married people only with their partners or other married people, prostitutes only with a well defined group of individual clients—HIV may spread quickly within some of the groups but will have a limited impact on the population as a whole. But if there is much more mixing between groups, with injecting drug users having sex with prostitutes, whose clients have sex with their own wives, for instance, the disease may take off slowly but will insinuate itself into many more corners of society. *Bridge populations*, which form a link

between otherwise unconnected groups, may be of particular importance for the dynamic of the epidemic by linking low and high risk behaviour populations.

Population surveys such as those recommended by WHO/GPA and UNAIDS have brought better knowledge of high risk groups and high risk behaviours. However, people are put at risk not just by their own behaviour but by that of others to whom they are linked in sexual networks. Policy makers should, from the shape of these networks, be able to identify useful points for intervention. It is up to social scientists to identify how sexual networks are spread across the society, by whom and why.

Thus, with the move from evaluation as the primary objective to that of more in-depth understanding of sexual networks, there is also a shift to an analytical framework that makes *partnerships* rather than *individuals* the primary unit of analysis [7]. Individual-based approaches explain behaviours by noting the char-

acteristics of the individual: attitudes, knowledge, beliefs and education; while partnership-based approaches will try to explain behaviours by noting the characteristics of the relationship: its duration, mutual expectations or gender roles, for example.

4. Implications for data collection methods

Ideally, for a better understanding of the nature of these networks, information should be collected on every sexually active person and every relationship in the population at risk. This would require respondents to identify their partners so that each partnership could be uniquely identified. That approach would raise serious issues with regard not only to

practicability but also to privacy and confidentiality.

By contrast, local network data require only information collected from a representative sample of respondents on selected attributes for each sexual partner in a given period. This is the approach that is proposed in the new UNAIDS sexual networks questionnaire.

5. Questionnaire design

Each eligible respondent is asked to report on a list of characteristics about themselves and their partners. No contact tracing is needed, nor are the partners named.

Table 1 shows the characteristics asked about in the questionnaire.

Table 1 – Attributes asked about in the sexual network module

Respondent's characteristics	Relationship attributes	Partners' characteristics
Gender	Type of relationship	Gender
Age	Duration of relation	Age
Education	Living arrangement	Education
Literacy	Frequency of sex	Ethnic group
Ethnic group	Use of condoms	Marital status
Religion	Place of first sex	Number of other sexual partners
Place of origin	Duration of relationship before first sex	
Place of residence	Ongoing or ended relation	
Marital status	Number of sexual acts	
Mobility	Exchange of money	
Occupation		
Age at first marriage		
Age at first sex		
Number of sexual partners		

A key issue is the question of how many partnerships to collect information on. The decision has been to ask respondents about their partnerships in the last 12 months to a maximum of eight relationships, starting with the most recent and going back in time. This is probably a maximum and may be not justified everywhere.

The questionnaire consists of a short form gathering information about the house-

hold of the respondent, then questions for the individual her/himself: identification, background characteristics, marriage(s), sexual relations with other partners and questions relating to STDs and other health issues such as contraception. Questions about income level may be added in some settings, although they are usually very sensitive. Other questions useful for prevention programmes might seek to determine where the respondents meet their sexual partners.

6. Collecting data

This new sexual network module in the questionnaire is relevant for researchers and managers who want to have a better understanding of the dynamics of the HIV epidemic in a context where heterosexual transmission is predominant. For evaluation purposes, though, the standard questionnaire [1] is still recommended. Note that the general design of the population survey is still the same and that all the sections in the methods package on sampling, sample size and other issues remain quite useful.

Five teams of investigators have already applied this new module in Dakar, Senegal; Cotonou, Benin; Lusaka, Zambia; Kisumu, Kenya and Yaoundé, Cameroon, with technical support from UNAIDS. Biological information on HIV infection

and on STDs has also been collected at these sites.

It should be noted that although the make-up of the teams collecting behavioural data is essentially the same as for the earlier questionnaire, more training will be needed for the application of this new network module, and data analysis is also more complex. The average budget of US\$ 30,000 for the survey should be increased by 15% to take into account increased efforts in training, a longer average time for interviews and more time spent on data analysis and report writing. UNAIDS and its partners stand ready to provide technical assistance in, for example, identifying consultants to help with training in both the administration of the survey and subsequent analysis of data.

7. Analysing the data

Analysing the data collected with the sexual network questionnaire is somewhat more complicated than for the prevention indicators questionnaire. Skills in both computation and data analysis will

be essential for any research group implementing the survey. The question of how to simplify the data analysis is being studied and will, it is hoped, be clearer after completion of the five-city

survey now being undertaken. Comparisons of the data from those surveys may give insights into which facts

are most useful, and how to most straightforwardly extract them from the data collected.

8. Future research

Ultimately, it is expected that the information gained from this question-naire will give pointers to where in the population interventions can most usefully be made. If we can see more clearly the web of infections making up the epide-

mic, it should be possible identify the intersections in the web, where there is particular danger or likelihood of HIV transmission, and focus our attention there.

References

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- 2 Mertens T, Caraël M, Sato P, *et al.* Prevention indicators for evaluating the progress of National AIDS Intervention Programmes. *AIDS* 1994; **8**:1359–69.
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Appendix

Multi-site study: questionnaire 1—Men and women

Part A: Household form

HOUSEHOLD IDENTIFICATION

001 City name

002 Cluster number

003 Household/dwelling number

004 INTERVIEW VISITS

	Visit 1	Visit 2	Visit 3
Date
Interviewer
Result*

Result codes*

Completed	1
No one at home	2
Refused	3
Household away for duration of survey	4
Dwelling vacant or address not a household	5
Dwelling not found	6
Postponed	7
Other (specify)	8

005 Facilities available in the cluster ID No.

All-weather road	Y <input type="checkbox"/>	N <input type="checkbox"/>
Health centre/hospital	Y <input type="checkbox"/>	N <input type="checkbox"/>
Trading centre (market)	Y <input type="checkbox"/>	N <input type="checkbox"/>
Electricity	Y <input type="checkbox"/>	N <input type="checkbox"/>
Running water	Y <input type="checkbox"/>	N <input type="checkbox"/>
Hotel/bar/boarding house	Y <input type="checkbox"/>	N <input type="checkbox"/>

Enquire about anyone else aged 15 years or over (including non-family members) who slept in the household last day or night (e.g. servants, lodgers).

HOUSEHOLD MEMBERS FORM

“Now I would like some information about the persons aged 15 years or over who usually live in this household. First what is the given name of the head of household?”

[Record in line 01]

Initials of first name	Relationship	From line _____ & line _____	Sex	Age	Slept here last day or night (Y/N)	Eligibility (aged 15-49 who slept there)
------------------------	--------------	------------------------------	-----	-----	------------------------------------	--

Usual household members

01 <i>Head</i>	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
02 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
03 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
04 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
05 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
06 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
07 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
08 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
09 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
10 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
11 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
12 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____

All others

21 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
22 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
23 _____	_____	___ & ___	M <input type="checkbox"/> F <input type="checkbox"/>	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____

Part B: Individual questionnaire (for adults aged 1549 who slept in the household)

SECTION I HOUSEHOLD IDENTIFICATION

101 City name

102 Cluster number

103 Household/dwelling number

104 Respondents initials and line number

105 Interviewer code

106 **INTERVIEW VISITS (INDIVIDUALS)**

	<i>Visit 1</i>	<i>Visit 2</i>	<i>Visit 3</i>
<i>Date</i>
<i>Interviewer</i>
<i>Result*</i>
<u><i>Result codes*</i></u>			
	Completed	1	
	Not at home	2	
	Refused	3	
	Partially completed	4	
	Other (specify)	8

107 Checked by supervisor ID No.

Signature

Date

SECTION 2 BACKGROUND CHARACTERISTICS

N°	Questions and filters	Coding categories	Skip to
Q201	Record sex of respondent	Male 1 Female 2	
Q202	How old are you? [PROBE FOR BEST ESTIMATE]	Age ____	
Q203	Have you ever attended school? If YES: What was the highest level that you completed?	Primary 1 Secondary 2 Higher 3 Primary not completed 4 Never 5	→ Q205 → Q205 → Q205
Q204	Can you read a newspaper or letter?	YES 1 NO 2	
Q205	What is your religion?	Protestant 1 Catholic 2 Muslim 3 Traditional 4 No religion 5 Other 6	
Q206	What ethnic group do you belong to?	_____	
Q207	Where were you born? (write down the District/County)	Same city 1 Other urban area 2 Rural area 3 Other countries 4	

N°	Questions and filters	Coding categories	Skip to
Q208	<p>How long have you stayed in this city?</p> <ul style="list-style-type: none"> • Since birth, ENTER 98 and SKIP to Q210 • If less than 1 month, ENTER 00 	<p>Years ____ Months ____</p>	
Q209	<p>Where were you before? (location)</p> <p>.....</p>	<p>Same city 1 Other urban 2 Rural 3 Other country 4</p>	
Q209B	<p>Why did you move? (main reason)</p> <p>.....</p> <p>.....</p>	<p>Marriage 1 Family move 2 Work 3 Visit 5 School 5 Other 6</p>	
Q210	<p>How many years or months do you intend to live in this city?</p> <ul style="list-style-type: none"> • Forever, ENTER 97 • Do not know, ENTER 96 	<p>Years ____ Months ____</p>	
Q211	<p>In the last 12 months, that is since last ____, how many trips of more than 1 night did you have outside this city? [PROBE]</p> <p>If less than 1 year in the city, ENTER 98</p>	<p>Number ____</p>	
Q212	<p>Altogether, how many days, weeks or months were you away from home in the last 12 months</p>	<p>Days ____ Weeks ____ Months ____</p>	

N°	Questions and filters	Coding categories	Skip to																				
Q213	What is your usual occupation? [PROBE: What kind of work do you do most of your time? record verbatim and then code]	<table border="0"> <tr> <td>Fishing</td> <td>0</td> </tr> <tr> <td>Farmer, works in agriculture, forestry, fishing</td> <td>1</td> </tr> <tr> <td>Soldier, policeman</td> <td>2</td> </tr> <tr> <td>Driver</td> <td>3</td> </tr> <tr> <td>Manual worker</td> <td>4</td> </tr> <tr> <td>Sales, service workers</td> <td>5</td> </tr> <tr> <td>Clerical</td> <td>6</td> </tr> <tr> <td>Professional, managerial</td> <td>7</td> </tr> <tr> <td>No employment (housework, student, unemployed)</td> <td>8</td> </tr> <tr> <td>Other</td> <td>9</td> </tr> </table>	Fishing	0	Farmer, works in agriculture, forestry, fishing	1	Soldier, policeman	2	Driver	3	Manual worker	4	Sales, service workers	5	Clerical	6	Professional, managerial	7	No employment (housework, student, unemployed)	8	Other	9	
Fishing	0																						
Farmer, works in agriculture, forestry, fishing	1																						
Soldier, policeman	2																						
Driver	3																						
Manual worker	4																						
Sales, service workers	5																						
Clerical	6																						
Professional, managerial	7																						
No employment (housework, student, unemployed)	8																						
Other	9																						
Q214	Are you now? [READ OUT]	<table border="0"> <tr> <td>Regularly employed full-time</td> <td>1</td> </tr> <tr> <td>Employed seasonally or on a day-to-day basis</td> <td>2</td> </tr> <tr> <td>Self-employed</td> <td>3</td> </tr> <tr> <td>Unemployed/looking for work</td> <td>4</td> </tr> <tr> <td>A homemaker with some part-time work outside</td> <td>5</td> </tr> <tr> <td>A homemaker with no other work outside</td> <td>6</td> </tr> <tr> <td>A student</td> <td>7</td> </tr> <tr> <td>Retired or disabled</td> <td>8</td> </tr> <tr> <td>Other</td> <td>9</td> </tr> </table>	Regularly employed full-time	1	Employed seasonally or on a day-to-day basis	2	Self-employed	3	Unemployed/looking for work	4	A homemaker with some part-time work outside	5	A homemaker with no other work outside	6	A student	7	Retired or disabled	8	Other	9			
Regularly employed full-time	1																						
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A homemaker with some part-time work outside	5																						
A homemaker with no other work outside	6																						
A student	7																						
Retired or disabled	8																						
Other	9																						
Q215	Did you have drinks containing alcohol in the last four weeks?	<table border="0"> <tr> <td>YES</td> <td>1</td> </tr> <tr> <td>NO</td> <td>2</td> </tr> </table>	YES	1	NO	2	→ Q301																
YES	1																						
NO	2																						
Q216	How often did you have drinks containing alcohol in the last 4 weeks? Would you say? [READ OUT]	<table border="0"> <tr> <td>At least once a day</td> <td>1</td> </tr> <tr> <td>At least once a week</td> <td>2</td> </tr> <tr> <td>Less than once a week</td> <td>3</td> </tr> </table>	At least once a day	1	At least once a week	2	Less than once a week	3															
At least once a day	1																						
At least once a week	2																						
Less than once a week	3																						

SECTION 3 MARRIAGE

Marriage may involve a legal arrangement, a religious ceremony or customary celebration. It may also be an informal union in which a man and woman live together and regard themselves as married. Thus by spouse, we mean married or living as married.

N°	Questions and filters	Coding categories	Skip to
Q301	Have you ever been married or ever lived as married	YES 1 NO 2	→ Q303
Q302	Have you ever had penetrative sexual intercourse? [PROBE]	YES 1 NO 2	→ Q321 → Q515
Q303	Are you now married or living as married, single, separated/divorced or widowed?	Married 1 Single 2 Separated/Divorced 3 Widowed 4	→ Q317 → Q317 → Q317
Q304	[MEN] Do you have more than one spouse? [WOMEN] Does your spouse have other spouses?	YES 1 NO 2	→ Q306
Q305	If YES: How many spouses in total now?	Number ____	

For each current spouse, ask Q306 to Q316

*“Now I am going to ask you more details about your current spouse(s):
Firstly, what are the initials of your current spouse? (see below)”*

	Questions	Spouse(s)			
		1	2	3	4
	First name initials	_____	_____	_____	_____
Q306	Is it a customary, civil, religious or consensual union?				
	Customary	1	1	1	1
	Civil	2	2	2	2
	Religious	3	3	3	3
	Consensual	4	4	4	4
Q307	How long have you been married or living as married with this spouse? IF LESS THAN 1 YEAR, ENTER 00 Years	_____	_____	_____	_____

Questions		Spouse(s)			
		1	2	3	4
First name initials		_____	_____	_____	_____
Q308	How old is he/she? [PROBE] YEARS	_____	_____	_____	_____
Q309	Do you usually live together in the same house/compound? YES 1 IF YES, SKIP TO Q311 NO 2	1 2	1 2	1 2	1 2
Q310	IF NO, where does he/she usually live? Same city 1 Other city 2 Rural 3 Abroad 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Q311	Do you have children with this spouse? IF NO, SKIP TO Q314 YES 1 NO 2	1 2	1 2	1 2	1 2
Q312	How old is your youngest one? Years IF YEARS, SKIP TO Q314 Months	_____	_____	_____	_____
Q313	IF CHILD IS LESS THAN 12 MONTHS, have you resumed sex with this spouse since the birth of this child? YES 1 NO 2	1 2	1 2	1 2	1 2
Q314	How many days has it been since you had your last sexual act with this spouse? • Within the last 30 days, ENTER 0–30 • More than 30 days but within the last year, ENTER 95 and SKIP to Q316 • More than one year, ENTER 96 and SKIP to Q306 for next spouse	_____	_____	_____	_____

Questions		Spouse(s)			
		1	2	3	4
First name initials		_____	_____	_____	_____
Q315	If WITHIN THE LAST 30 DAYS, how many times did you have sex with your spouse in the last week?	_____	_____	_____	_____
Q316	Did you use a condom with him/her in the past 12 months? If YES, how often?				
	Always 1	1	1	1	1
	Often 2	2	2	2	2
	Half of the time 3	3	3	3	3
	Rarely 4	4	4	4	4
	Never 5	5	5	5	5
If MORE THAN ONE SPOUSE, GO BACK TO Q306					
Q317	(NOW THINK BACK TO THE PAST). Apart from this/these spouse(s), how many persons have you been married to in your whole lifetime?		_____		
Q318	How old were you when you first got married?		_____		
Q319	How old was your (first) spouse at the time?		_____		
Q320	How many different sexual partners did you have penetrative sex with (before you first got married)?		_____		
Q321	How old were you when you had penetrative sexual intercourse for the first time?		_____		
Q322	How many different sexual partners did you have penetrative sex with up to now? [PROBE]		_____		

SECTION 4 SEXUAL RELATIONS WITH OTHER PARTNERS THAN SPOUSES

“Now I would like to ask you a few questions about other partners that you may have had in the last 12 months that is since....”

N°	Questions	Coding categories	Skip to
Q401	<p>Have you had sexual intercourse with anyone (else) in the last 12 months (other than a spouse)?</p> <p>[PROBE: please include the following people that you might have sex with: mistresses, girlfriends, casual partners, prostitutes, somebody that you may have met in bars, during special events such as wedding, etc.]</p>	<p>YES 1</p> <p>NO 2</p>	<p>→ Q502 [MEN]</p> <p>→ Q517 [WOMEN]</p>
Q402	<p>With how many different people have you had sexual intercourse within the last 12 months (apart from spouse(s))?</p>	<p>Number ____</p>	

“I would like to know more about these sexual partners, beginning with the most recent one you had sex with. What was his/her initials?” (For each sex partner, ask Q403 to Q421)

N°	Questions	Sexual partner(s)							
		1	2	3	4	5	6	7	8
	Initials or Don't Know (DK)	_____	_____	_____	_____	_____	_____	_____	_____
Q403	How would you describe your relationship in local terms?.....	_____	_____	_____	_____	_____	_____	_____	_____
Q404	What educational level has he/she completed?								
	Primary	1	1	1	1	1	1	1	1
	Secondary	2	2	2	2	2	2	2	2
	Higher	3	3	3	3	3	3	3	3
	Primary not completed	4	4	4	4	4	4	4	4
	None	5	4	5	5	5	5	5	5
	DK	6	6	6	6	6	6	6	6

N°	Questions	Sexual partner(s)							
		1	2	3	4	5	6	7	8
	Initials or Don't Know (DK)	_____	_____	_____	_____	_____	_____	_____	_____
Q405	How old is he/she? [PROBE]	_____	_____	_____	_____	_____	_____	_____	_____
Q406	Is he/she married, divorced, separated, widowed, or single?								
	Married 1	1	1	1	1	1	1	1	1
	D/S/W 2	2	2	2	2	2	2	2	2
	Single 3	3	3	3	3	3	3	3	3
	DK 4	4	4	4	4	4	4	4	4
Q407	What ethnic group does he/she belong to?	_____	_____	_____	_____	_____	_____	_____	_____
Q408	Where did you have sex the first time with him/her?								
	[SKIP to Q411] ← Same city 1	1	1	1	1	1	1	1	1
	Other urban area 2	2	2	2	2	2	2	2	2
	Rural area 3	3	3	3	3	3	3	3	3
Q409	[IF OUTSIDE THIS CITY] Why were you there? Was it for [READ OUT]								
	Professional reasons 1	1	1	1	1	1	1	1	1
	Family reasons 2	2	2	2	2	2	2	2	2
	Economic reasons 3	3	3	3	3	3	3	3	3
	Others 4	4	4	4	4	4	4	4	4
	Specify.....								
Q410	[IF OUTSIDE THIS CITY] How long did you stay in that place? Days	_____	_____	_____	_____	_____	_____	_____	_____

N°	Questions Initials or Don't Know (DK)	Sexual partner(s)							
		1	2	3	4	5	6	7	8
		_____	_____	_____	_____	_____	_____	_____	_____
Q411	How long did you know him/her before having sexual relation? Months Days • IF MORE THAN 5 YEARS, ENTER 99 • IF LESS THAN 1 DAY, ENTER 00	_____ _____	_____ _____	_____ _____	_____ _____	_____ _____	_____ _____	_____ _____	_____ _____
Q412	Are these sexual relations currently going on or has the sexual relationship ended? Relationship going on 1 Relationship ended 2 Do not know 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3
Q413	[IF CURRENT RELATION] How many times in the last month did you have sex with this person?	_____	_____	_____	_____	_____	_____	_____	_____
Q414	[IF ENDED OR DK] How many times did you have sex with him/her in the last year?	_____	_____	_____	_____	_____	_____	_____	_____
Q415	[IF ENDED] How many months ago did it finish? Months	_____	_____	_____	_____	_____	_____	_____	_____
Q416	How long did the relationship last? (I mean how long was it between the first time you had sex together and the last time?) [IF LESS THAN 1 DAY, ENTER 00] Days Months	_____ _____	_____ _____	_____ _____	_____ _____	_____ _____	_____ _____	_____ _____	_____ _____

N°	Questions	Sexual partner(s)							
		1	2	3	4	5	6	7	8
	Initials or Don't Know (DK)								
Q417	In your last sexual intercourse with him/her, did you use a condom? YES 1 NO 2	1 2							
Q418	Usually did you use a condom with him/her? [READ OUT] Always 1 Most of the time 2 Rarely 3 Never 4	1 2 3 4							
Q419	Did you give/receive money in exchange for sex with him/her? YES always 1 YES often 2 Never 3	1 2 3							
Q420	Do you think that over the last year, apart from you, he/she has sex with [READ OUT] • Steady partner: YES:1 NO:2 DK:3 • Casual partner: YES:1 NO:2 DK:3 • Others with exchange of money YES:1 NO:2 DK:3	1 2 3 1 2 3 1 2 3							
Q421	If you took a guess, how many partners do you think he/she has had in the last 12 months (apart from you)?								

Please go back to Q403 for other partners

SECTION 5 STDs AND HEALTH ISSUES

N°	Questions and filters	Coding categories	Skip to
Q501	MEN ONLY	WOMEN SKIP TO	→ Q517
Q502	<p>Now I would like to ask you some questions about your health in the last 12 months. Some men experience pain during urination or have a discharge from the penis. During the last 12 months, have you noticed any such pain or discharge?</p> <ul style="list-style-type: none"> • If YES: How many episodes started in the last 12 months? • If NONE, ENTER 00 	Number ____	
Q503	At present, do you have any pain when passing urine?	YES 1 NO 2	→ Q505
Q504	For how long do you have this pain?	Days ____	
Q505	In the last 24 hours, did you have any discharge from the penis?	YES 1 NO 2	→ Q507
Q506	For how long did you have this discharge?	Days ____	
Q507	<p>Some men experience sores in the genital area. During the last 12 months, have you noticed any such sores?</p> <ul style="list-style-type: none"> • If YES: How many episodes started in the last 12 months? • If none ENTER 00 	Number ____	

N°	Questions and filters	Coding categories	Skip to
Q508	At present, do you have any sores on the genital area? Are they painful?	YES without pain 1 YES painful 2 NO 3	→ Q510
Q509	For how long do you have these sores?	Days ____	
Q510	Filter: SEE Q502 TO Q508 ONE OR MORE EPISODES	<i>NO EPISODE SKIP TO</i>	→ Q515
Q511	↓ Which of the following did you do for the last episode? [READ OUT] Sought advice from friend or relative Used medicine that you had at home Sought advice from a traditional healer Sought advice from a clinic, a hospital, or a health worker Obtained free drugs from a clinic, a hospital or a health worker Bought medicine from a clinic a hospital or health worker Bought medicine from traditional healer Bought medicine from a pharmacy or shop Nothing Other (specify)	YES I NO 2 YES I NO 2	
Q512	Did you tell (any of) your spouse(s) or partner(s) about this last episode?	YES 1 NO 2	

N°	Questions and filters	Coding categories	Skip to
Q513	While you had the symptoms, did you do anything to prevent passing the infection to (any of) your spouse(s) or partner(s)? (Seeking treatment excluded)	YES 1 NO 2	→ Q515
Q514	If YES, what did you do?	Abstain from sex 1 Use a condom 2 Other 3	
Q515	Are you circumcised? (use local terms for operation)	YES 1 NO 2	→ Q600
Q516	How old were you when you were circumcised?	Years ____	
Q600	Eventually, would you accept to be asked 5 or 10 questions again for clarification? Comments	YES 1 NO 2	
WOMEN ONLY			
Q517	In the last 12 months, did you have sex during menstruation (with any of your partners)?	YES 1 NO 2	
Q518	Are you currently doing something or using any method to delay or avoid pregnancy?	YES 1 NO 2 Pregnant 3	→ Q520 → Q520

N°	Questions and filters	Coding categories	Skip to
Q519	If YES, which method are you using?	Pill 1 IUD 2 Injections 3 Diaphragm/foam/jelly 4 Condom 5 Calendar/Safe period 6 Withdrawal 7 Sterilization 8 Other 9	
Q520	Do you usually use something to tighten or dry your vagina before sexual intercourse?	Always 1 Often 2 Rarely 3 Never 4	→ Q600
Q521	If YES, what do you use?		