

Evaluation Protocol Data Manual

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Acronyms and Abbreviations

AHS	Annual household survey
ART	Antiretroviral treatment (or therapy, treatment)
ВСРР	Botswana Combination Prevention Project
BHS	Baseline household survey
ESS	End of study survey
ніс	HIV incidence cohort
HIV	Human immunodeficiency virus
HIV-1 RNA	HIV-1 ribonucleic acid load in plasma (or viral load)
нтс	HIV testing and counseling
IPMS	Integrated Patient Management System
LTC	Linkage to care
МС	Male circumcision
PIMS	Patient Information Management System
UNAIDS	Joint United Nations Programme on HIV/AIDS
WHO	World Health Organization

Enumeration Data

Plots

			Availability of Data	
Variable Name	Description	Additional detail	20% random sample at Year 1 (all pairs)	Remaining 80% sample at Year 3 (pairs 1, 6, and 9)
de_plot_idC	Unique plot identifier	De-identified, unique codes were randomly assigned to each plot	\checkmark	~
region	Geographical region of community	Classified as 'Northern', 'Southern', or 'Central'	\checkmark	~
community_rndmN	Community number (1-30)	De-identified	\checkmark	\checkmark
pair_rndmN	Assigned pair number (1-15)	De-identification preserved the 1-15 range (randomly scrambled the pairs) and maintain link to community	✓	~
intervention	Randomization arm		\checkmark	✓
plot_residency_status	Categorical variable summarizing plot status following all Evaluation Protocol study activities in a given year. Responses: - "Residential/habitable" - "Residential/inhabitable" - "Non-residential" - "Inaccessible"	Plots are classified as residential and habitable if the geographic area identified by the research team appears to be potentially used for living and/or sleeping by at least one person (e.g. house or hut with roof, and some evidence of being inhabited, such as curtains in windows, livestock). In contrast, plots determined to be residential, but not habitable included those with only unfinished or incomplete structures, animal pens/kraals, or demolished/deserted households. Non- residential plots also included areas with only commercial shops, health facilities, schools, etc.	~	~

		Only residential and habitable plots were eligible for household assessments and enumerations.		
residential_habitable	Yes/No indicator for the plot designated residential and habitable.		\checkmark	\checkmark
household_count	Number of households on the plot.		\checkmark	✓
reshab_plot_type	Categorization of the number of households on residential and habitable plots.	Variable set to missing if (1) plot not residential and habitable or (2) plot residential and habitable, but no households found		
	Responses: - "Single: 1 household" - "Double: 2 households" - "Multi: >2 households"		v	v
plot_enumerated	Yes/No indicator for the enumeration of ≥1 household on plot		\checkmark	✓
plot_enrolled	Yes/No indicator for ≥ 1 enrolled household member on ≥ 1 household on plot		\checkmark	~
used_for_ess	Yes/No indicator for ≥1 enrolled household member participating in ESS on a plot originally selected for 20% sample in year	Variable coded to 'Yes' if ≥1 household members participated in the ESS in year 3, and 'No' if (1) no household members participated in the ESS or (2) if no household members participated in either survey	\checkmark	×

Households

			Availabil	ity of Data
Variable Name	Description	Details	20% random sample at Year 1 (all pairs)	Remaining 80% sample at Year 3 (pairs 1, 6, and 9)
de_hh_idC	Unique household identifier	De-identified, unique codes were randomly assigned to each household	~	✓
de_plot_idC	Unique plot identifier	De-identified, unique codes were randomly assigned to each plot	~	✓
region	Geographical region of community	Classified as 'Northern', 'Southern', or 'Central'	~	 ✓
community_rndmN	Community number (1-30)	De-identified	\checkmark	\checkmark
pair_rndmN	Assigned pair number (1-15)	De-identification preserved the 1-15 range (randomly scrambled the pairs) and maintain link to community	~	~
intervention	Randomization arm		\checkmark	\checkmark
final_household_status	Categorical variable summarizing household status following all Evaluation Protocol study activities in a given year. Responses: - "Enumerated not enrolled" - "Household not visited" - "Household refused" - "No eligible representative" - "No one home" - If 20% sample: "HH members enrolled in evaluation protocol" - If 80% sample: "HH members participated in ESS"		✓	~

hh_enumerated hh_enrolled	Yes/No indicator variables for enumerated and/or enrolled households, respectively.		✓	~
used_for_ess	Yes/No indicator for ≥1 enrolled household member participating in ESS	Variable coded to 'Yes' if ≥1 household member participated in the ESS in year 3, and 'No' if (1) no household members participated in the ESS or (2) if no household members participated in either survey	✓	×
occupancy_status	Occupancy status of households in the 20% sample in year 1 (community pairs 2- 15). Responses: - "Regularly occupied" - "Seasonally occupied" - "Rarely or never occupied"	For plots determined to be residential and habitable, research staff made up to three attempts to enumerate members of each household on the plot. If, after three attempts, nobody was found at home, the research staff member approached a neighbor or a representative at the Village Development Committee for assistance. This third-party informant, who was required to be 18 years of age or older, was asked if members of the household stayed there regularly, temporarily/seasonally, rarely or never. Information from third-party informants on occupancy was not available for Pair 1 communities but was available for all subsequent community pairs. All enumerated and/or enrolled households were considered regularly occupied. Irrespective of enumeration or enrollment status, if research staff encountered someone at home the	✓	×

		household was considered regularly occupied.		
member_count enrolled_count	Number of enumerated and enrolled household members, respectively.	Variable member_count set to 0 if household was not enumerated. Variable enrolled_count set to 0 if household was enumerated but no household members were enrolled.	✓	✓
		Both variables set to missing if household neither enumerated nor enrolled.		
children_under5 children_5to15	Number of enumerated household members aged younger than 5 years or aged 5 to 15 years, respectively.	Variable set to missing if household was not enumerated.	\checkmark	\checkmark
flooring_type	Categorical variable summarizing the main type of flooring in the household as reported by the household respondent.	Derived variable incorporating any responses provided in the free text field option, "Other (please specify)."	✓	~
	Responses: - "Tile wood parquet carpet" - "Cement" - "Dirt/earth"			
water_source	Categorical variable summarizing the main source of water in the household as reported by the household respondent.	Derived variable incorporating any responses provided in the free text field option, "Other (please specify)."		
	Responses: - "Piped indoors" - "Standpipe/tap within plot" - "Neighbor/relative tap or standpipe" - "Communal tap" - "Borehole or protected well" - "Bowser tanker or buy from others"		✓	\checkmark

	- "River lake or unprotected well"			
toliet_facility	Categorical variable summarizing the main type of toilet facility in the household as reported by the household respondent. Responses:	Derived variable incorporating any responses provided in the free text field option, "Other (please specify)."	~	✓
	 "Flush toilet within plot" "Pit latrine within plot" "Neighbor/community toilet/pit latrine" "Bush" 			
energy_source	Categorical variable summarizing the main source of energy in the household as reported by the household respondent.	Derived variable incorporating any responses provided in the free text field option, "Other (please specify)."		
	Responses: - "Electricity" - "Gas" - "Charcoal/wood/paraffin" - "No cooking done"		~	~
living_rooms	Continuous variable summarizing the total number of rooms in the household as reported by the household respondent.		~	~
cattle_owned goats_owned sheep_owned	Continuous variables summarizing the total number of cattle, goats, and sheep owned by members of the household as reported by the household respondent.		\checkmark	~
elec_cellphone elec_computer elec_internet elec_landline	Yes/No indicator variables representing household ownership of various electrical appliances as reported by household representative.		\checkmark	~

elec_radio elec_refrig			
elec_tv			
transport_animal	Yes/No indicator variables representing		
transport_bicycle	household ownership of various forms of		
transport_cart	transport as reported by household		
transport_motorcycle	representative.	v	v
transport_motorveh			
transport_tractor			
smaller_meals	Yes/No indicator variable for any		
	household member needing to eat	\checkmark	\checkmark
	smaller meals due to lack of food.		

Household Members

Variable Name	Description	Details	Availabil	ity of data
			20% random sample at Year 1 (all pairs)	Remaining 80% sample at Year 3 (pairs 1, 6, and 9)
de_subj_idC	Unique household member identifier	De-identified, unique codes were randomly assigned to each enumerated household member, the same identifier is used if the household member enrolls	~	~
de_hh_idC	Unique household identifier	De-identified, unique codes were randomly assigned to each household	~	~
de_plot_idC	Unique plot identifier	De-identified, unique codes were randomly assigned to each plot	~	~
region	Geographical region of community	Classified as 'Northern', 'Southern', or 'Central'	~	~
community_rndmN	Community number (1-30)	De-identified	✓	\checkmark
pair_rndmN	Assigned pair number (1-15)	De-identification preserved the 1-15 range (randomly scrambled the pairs) and maintain link to community	~	~
intervention	Randomization arm		✓	\checkmark
final_member_status	Derived categorical variable summarizing household member status following all Evaluation Protocol study activities in a given year. Responses: - "Survey participant" - "Age ineligible" - "Refused" - "Absent" - "Unknown"		✓	~

	 If 20% sample, "Incapacitated or non-citizen" If 80% sample: "Ineligible by other criteria" 			
relation_to_head	Categorical variable summarizing the relationship between the household member and head of the household as reported by household representative.		\checkmark	\checkmark
gender	Gender of household member as reported by household representative.		\checkmark	✓
age_in_years	Age (in years) of household member as reported by household representative (if not enrolled) or member (if enrolled).	If enumerated household member subsequently enrolled in BHS/AHS or ESS, variable was replaced with age based on confirmed date of birth.	~	~
age_eligible	Yes/No indicator variable for meeting age eligibility criteria (16-64 years) for Evaluation Protocol study participation.		\checkmark	~
eligible_member	Yes/No indicator variable for meeting all eligibility criteria (including age, residency, citizenship, and competency) for Evaluation Protocol study participation.		✓	~
inelig_other	Yes/No indicator variable for being age eligible, but not all meeting one or more additional eligibility criteria. -	Note: For BHS/AHS in year 1, enumerated household members who were not a Botswana citizen or married to a citizen were ineligible for Evaluation Protocol study participation. This requirement was lifted in year 3 for ESS.	✓	✓
inelig_other_reason	Reason for ineligibility among age-eligible enumerated household members	Note: For BHS/AHS in year 1, enumerated household members who were not a Botswana citizen or married to a citizen were ineligible for Evaluation Protocol study participation. This requirement was lifted in year 3 for ESS.	~	~

Survey Data

Participant and Community Variables

Plot, household, and participant identifiers are available in all datasets.

	Description	Details	Availability of data		
Variable Name			BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
de_subj_idC	Unique participant identifier	De-identified, unique codes were randomly assigned to each enrolled participant	~	\checkmark	~
de_hh_idC	Unique household identifier	De-identified, unique codes were randomly assigned to each household	~	\checkmark	✓
de_plot_idC	Unique plot identifier	De-identified, unique codes were randomly assigned to each plot	~	\checkmark	~
region	Geographical region of community	Classified as 'Northern', 'Southern', or 'Central'	✓	\checkmark	~
community_rndmN	Community number (1-30)	De-identified	\checkmark	\checkmark	\checkmark
pair_rndmN	Assigned pair number (1-15)	De-identification preserved the 1-15 range (randomly scrambled the pairs) and maintain link to community	~	✓	~
intervention	Randomization Arm		\checkmark	\checkmark	\checkmark
gender	Gender		\checkmark	\checkmark	\checkmark
age_at_interview	Continuous age at household visit	Derived from date of birth provided on consent form	✓	\checkmark	~
age5cat	Categorial age variable - 16-24 years - 25-24 years - 35-44 years - 45-54 year		~	~	~

- 55-64 years		

Residency and Mobility

			Av	ailability of c	lata
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
length_residence	Q.2. How long have you lived in this community?	"Don't want to answer" responses coded to missing.	~	✓	~
permanent_resident	Q.3. In the past 12 months, have you typically spent 14 or more nights per month in this community?		~	~	~
intend_residency	Q.4. Do you intend to move out of the community in the next 12 months?		~	~	×
nights_away	Q.5. In the past 12 months, in total how many nights did you spend away from this community, including visits to cattle post and lands? [If you don't know exactly, give your best guess]	"Don't want to answer" and "I am not sure" responses coded to missing.	~	✓	~
cattle_postlands	Q.6. In the past 12 months, during the times you were away from this community, where were you primarily staying?	Responses provided in the free text field option, " if other, specify" were either incorporated into existing response categories or as new indicator variables. "Don't want to answer" responses coded to missing. Variable coded to missing if participant previously reported zero nights away during the past 12 months	~	✓	~

Community Engagement

The Community Engagement section was only administered in year 1 for community pairs 2-15.

			Ava	ata	
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
community_engagment	Q.2. How active are you in community activities such as burial society, Motshelo, Syndicate, PTA, VDC (Village Developement Committee), Mophato and development of the community that surrounds you?	"Don't want to answer" responses coded to missing.	V	×	×
vote_engagement	Q.3. Did you vote in the last local government election?	"Don't want to answer" and "Not applicable (no election, can't vote)" responses coded to missing.	\checkmark	×	×
prob_housing prob_malaria prob_roads prob_schools prob_sewer prob_unemployment prob_water prob_hiv prob_alcohol_drug prob_crime prob_electricity prob_develop	Q.4. What are the major problems in this neighbourhood?	Series of indicator variables derived from survey question which allowed participant to select multiple responses. Value is 'Yes' for each response selected. Responses provided in the free text field option, "Q.5 if other, specify" were either incorporated into existing response categories or as new indicator variables. "Don't want to answer" responses coded to missing.	~	×	×

prob_govt prob_healthcare prob_youth prob_teenpreg prob_neighbor prob_environment prob_poverty					
solve_engagement	Q.6. If there is a problem in this neighbourhood, do the adults work together in solving it?	"Don't want to answer" and "Don't know" responses coded to missing.	~	×	×

Demographics and Education

			Availability of data		
Variable Name Description	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
religion_name	Q.2. What is your religion affiliation?	Derived variable incorporating responses provided in the free text field option, "Q.3 if 'Other', specify" which matched a pre-specified response provided in the survey.	~	×	~
religious_affill	Yes/No indicator variable set to "Yes" if participant reported any religious affiliation on Q.2. and "No" otherwise.		~	×	~
relig_theogrp	Categorical variable summarizing individual religious affiliations into broad theological groups based on historical and cultural characteristics	Derived variable incorporating responses provided in the free text field option, "Q.3 if 'Other', specify" which matched a pre-specified response provided in the survey.			
	Responses: - "African Independent" - "Catholic" - "Eastern churches" - "Pentacostal" - "Small denominations" - "Non-religious"			×	✓
ethnicity	Q.4. What is your ethnic group?	Derived variable incorporating responses provided in the free text field option, "Q.5 if 'Other', specify" which matched a pre-specified response provided in the survey.	~	×	×

		"Don't want to answer" responses coded to missing.			
marital_status	Q.6. What is your current marital status?	"Don't want to answer" responses coded to missing.	\checkmark	\checkmark	~
num_wives	Q.7. WOMEN: How many wives does your husband have (including traditional marriage), including yourself?	Note: There are >0 responses by male participants even though the question was intended to be answered by female participants only.	√	✓	~
husband_wives	Q.8. MEN: How many wives do you have, including traditional marriage?	Note: There are >0 responses by female participants even though the question was intended to be answered by male participants only.	√	~	✓
live_alone livewith_family livewith_partner livewith_siblings livewith_other	Q.9. Who do you currently live with?	Series of indicator variables derived from survey question which allowed participant to select multiple responses. Value is 'Yes' for each response selected and missing otherwise. "Don't want to answer" responses coded to	√	✓	✓
		missing.			

Education and Employment

			Availability of data		
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
education	Q.2. What is your highest level of education attainment?		✓	×	~
job_description	Q.6. Describe the work that you do or did in your most recent job. If you have more than one profession, choose the one you spend the most time doing.	Variable coded to missing if participant is unemployed.	~	~	~
employment_status	Derived variable based on: Q.3. Are you currently working? Q.5. What is the reason why you are not working? Responses: - Employed - Unemployed and looking for work - Unemployed, but not looking for work	Variable coded to "Employed" if working = "Yes" Variable coded to "Unemployed and looking for work" if working = "No" and reason_unemployed = "Waiting to continue agricultural work" or "Unemployed (looking for work)" or "Unemployed (waiting to start new work)" Variable coded to "Unemployed, but not looking for work" if working = "No" and reason_unemployed = "Unable to work (permanently sick or injured)" or "Student/ Apprentice/ Volunteer" or "Housewife/	✓	✓	✓

		Homemaker (not looking for work)" or "Retired" or "Not looking for work".			
monthly_income	Q.7. In the past month, how much money did you earn from work you did or received in payment [retirement benefits, child maintenance, food basket, etc]?	Variable coded to 'No income' if participant is unemployed and monthly income is not reported. "Don't want to answer" responses coded to missing.			
	Responses: - No income - 1-199 pula - 200-499 pula - 500-999 pula - 1,000-4,999 pula - 5,000-10,000 pula - More than 10,000 pula		~	v	✓

			Availability of data		
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
hiv_status_current	 Derived variable summarizing participant HIV infection status at each study visit; constructed based on responses and information gathered from the following survey items (in addition to results of rapid inhome HIV testing): HIV Testing History: Q.2. Have you ever been tested for HIV before? Q.4. Is a record of last [most recent] HIV test [OPD card, Tebelopele, other] available to review? Q.5. Please tell me the results of your last [most recent] HIV test? Q.6. Do you have any other available documentation of positive HIV status? HIV Test Review: Q.2. What was the recorded date of the last HIV test? Q.3. What was the recorded HIV test result? 	 HIV-positive = participant tested HIV-positive during rapid in-home testing or provided documentation of a previously known HIV-positive status. HIV-negative = participant tested HIV-negative during rapid in-home testing. Missing = participant could not provide documentation of a previously known HIV-positive status and refused rapid in-home testing. 		✓	*

HIV Testing History, Test Review, and Result Documentation

	HIV result documentation: Q.2. What is the recorded date of this previous HIV test (or of the document that provides supporting evidence of HIV infection)? Q.3. What is the type of document used?				
hiv_status_time	Derived variable summarizing HIV infection status at each study visit and timing of participant awareness of status	 HIV-positive (newly diagnosed) = participant could not provide documentation of a previously known HIV-positive status and tested HIV- positive during rapid in-home testing. HIV-positive (previously diagnosed) = participant provided documentation of a previously known HIV-positive status HIV-negative = participant tested HIV-negative during rapid in-home testing. Missing = participant could not provide documentation of a previously known HIV- positive status and refused rapid in-home testing. 	V	✓	✓
selfreport_has_tested	Q.2. Have you ever been tested for HIV before?	Note: Self-reported history HIV test irrespective of available supporting documentation (if any) of test. "Don't want to answer" responses coded to	✓	✓	~
selfreport_has_testrecord	Q4. Record of last test available?	missing.	\checkmark	✓	✓

selfreport_when_hivtest	Q.3. When was the last [most	Note: Self-reported timing of most recent HIV			
	recent] time you were tested for HIV?	test irrespective of available supporting documentation (if any) of test date.			
		documentation (if any) of test date.	\checkmark	\checkmark	\checkmark
		"Don't want to answer" and "I am not sure"			
		responses coded to missing.			
selfreporte_hiv_result	Q.5. Please tell me the results	Note: Self-reported result of most recent HIV test			
	of your last [most recent] HIV	irrespective of available supporting			
	test?	documentation (if any) of test result.	\checkmark	~	\checkmark
		"Don't want to answer" and "I am not sure" responses coded to missing.			
prev_hivresult_days	Derived variable of the				
	number of days from				
	enrollment date to date of		\checkmark	\checkmark	\checkmark
	most recent HIV test with				
	supporting documentation.				
prev_hivresult	Derived variable of result of				
	most recent HIV test with		\checkmark	\checkmark	\checkmark
	supporting documentation.				
prev_hivpos_doctype	Type of documentation of previous HIV result	From 'result_doc_type' on survey	\checkmark	\checkmark	\checkmark
viral_load	Continuous viral load result	Note: Per protocol, viral load was measured in all			
	from blood draw at study visit.	HIV-positive participants at enrollment and study			
		end.			
			\checkmark	\checkmark	\checkmark
		Viral load was also measured in year 2 for			
		participants newly testing positive (i.e.			
		seroconverters) between enrollment and AHS-1.			
cd4_value	Continuous CD4 cell count	Note: Per protocol, CD4 cell count was measured			
	from in-home point-of-care	in (1) HIV-positive participants not on ART at	1		,
	CD4 testing at study visit.	enrollment and (2) participants newly testing	\checkmark	✓	\checkmark
		positive during follow-up (i.e. seroconverters)			
		without evidence of ART initiation.			

HIV Tested and Untested

				Availability of data		
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)	
prev_hivtest_num	Q.2. How many times before today have you had an HIV test?		~	×	×	
prev_hivresult_locale	Q.3. Where were you tested for HIV, the last [most recent] time you were tested?	Derived variable incorporating responses provided in the free text field option, "Q.4 if 'Other', specify" which matched a pre-specified response provided in the survey. "Don't want to answer" and "I am not sure" responses coded to missing.	~	~	✓	
prev_hivtest_reason	Q.5. Not including today's HIV test, which of the following statements best describes the reason you were tested the last [most recent] time you were tested before today?	"Don't want to answer" and "I am not sure" responses coded to missing.	~	×	×	
hiv_pills	Q.6. Have you ever heard about treatment for HIV with pills called antiretroviral therapy or ARVs [or HAART]?	"Not sure" responses coded to missing.	~	×	×	
arvs_hiv_test	Q.7. Do you believe that treatment for HIV with antiretroviral therapy (or ARVs) can help HIV-positive people to live longer?	"Not sure" responses coded to missing.	~	×	×	
hivuntested_reason	Q.2. If you were not tested for HIV in the 12 months prior to	"Don't want to answer" and "I am not sure" responses coded to missing.	✓	×	×	

today, what is the main reason		
why not?		

HIV Care and Adherence and Medical Care

HIV Care and Adherence and Medical Care questions were administered to HIV-positive participants who knew of their HIV-positive status before enrollment into the Evaluation Protocol.

			Ava	lata	
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
arv_status_current	 Derived variable summarizing participant ART status (among HIV-positive participants) at each study visit; constructed based on responses and information gathered from the following survey items (in addition to results of rapid inhome HIV testing): <i>HIV Care and Adherence:</i> Q.7. Have you ever taken any antiretroviral therapy (ARVs) for your HIV infection? [For women: Do not include treatment that you took during pregnancy to protect your baby from HIV] Q.11. Are you currently taking antiretroviral therapy (ARVs)? Q.12. Is there evidence [OPD card, tablets, masa number] 	On ARVs = Documented evidence of current ARV use. ARV-naïve = (1) Participant reports no current or past use of ART or (2) participant reports current use, but unable to provide supporting documentation. ARV-defaulter = Participant reports past use of ART, but no current use. Variable coded to missing for HIV-negative participants.	~	~	~

	that the participant is on therapy? Q.13. Which clinic facility are you already receiving therapy from? Q.10. When did you first start taking antiretroviral therapy (ARVs)?				
arv_duration_days	Derived variable (among HIV- positive participants with documented current use of ARVs) summarizing the total number of days since initiation of ARVs to current study visit. Q.10. When did you first start taking antiretroviral therapy (ARVs)?		~	~	~
medical_care_hiv	Q.3. Have you ever received HIV-related medical or clinical care, for such things as a CD4 count (masole), IDCC/ PMTCT registration, additional clinic-based counseling?	"Don't want to answer" responses coded to missing.	~	~	~
no_medical_care	Q.4. What is the main reason you have not received HIV- related medical or clinical care?	Derived variable incorporating responses provided in the free text field option, " if 'Other', specify" which matched a pre-specified response provided in the survey. "Don't want to answer" and "I am not sure" responses coded to missing.	~	~	~

last_hivcare_days	Days from enrollment to date captured by: Q.3. When did you last (most recently) receive HIV-related medical	Note: Data are self-reported by participant and were not confirmed or verified by supporting documentation			
	care for such things as a CD4 count (masole), IDCC/ PMTCT registration, additional clinic-based counseling?	"Don't want to answer" responses coded to missing.	~	~	~
lowest_cd4	Q.4. What was your lowest CD4 (masole) count that was ever measured?	"Don't want to answer" and "I am not sure" responses coded to missing.	~	~	✓
ever_recommended_arv	Q.6. Have you ever been recommended by a doctor/nurse or other healthcare worker to start antiretroviral therapy (ARVs), a combination of medicines to treat your HIV infection? [common medicines include: combivir, truvada, atripla, nevirapine]	"Don't want to answer" responses coded to missing.	~	~	~
ever_taken_arv	Q.7. Have you ever taken any antiretroviral therapy (ARVs) for your HIV infection? [For women: Do not include treatment that you took during pregnancy to protect your baby from HIV]	"Don't want to answer" responses coded to missing.	~	~	~
why_no_arv	Q.8. What was the main reason why you have not started ARVs?	Derived variable incorporating responses provided in the free text field option, " if 'Other', specify" which matched a pre-specified response provided in the survey.	~	~	~

		"Don't want to answer" and "I am not sure" responses coded to missing.			
on_arv	Q.11. Are you currently taking antiretroviral therapy (ARVs)?	"Don't want to answer" responses coded to missing.	\checkmark	✓	✓
arv_evidence	Q.12. Is there evidence [OPD card, tablets, masa number] that the participant is on therapy?	Variable coded to missing for (1) HIV-negative participants and (2) HIV-positive participants who report no current or past use of ARVs.	√	✓	~
clinic_receiving_from	Q.13. Which clinic facility are you already receiving therapy from?		\checkmark	✓	~
arv_stop_days	Days from enrollment to date captured by: Q.15. When did you stop taking ARV's?	Note: Data are self-reported by participant and were not confirmed or verified by supporting documentation	~	✓	~
arv_stop	Q.16. What was the main reason why you stopped taking ARVs?	Note: Variable contains a high level of missingness (only intended for HIV-positive participants currently defaulted from ARVs).	✓	✓	~
adherence_4_day	Q.18. During the past 4 days, on how many days have you missed taking all your doses of antiretroviral therapy (ART)?	"Don't want to answer" responses coded to missing.	✓	✓	~
adherence_4_wk	Q.19. Thinking about the past 4 weeks, on average, how would you rate your ability to take all your medications as prescribed?	"Don't want to answer" responses coded to missing.	✓	✓	~

Circumcision

Circumcision questions administered to male participants only.

			Availability of data		lata
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
circumcised	Q.2. Are you circumcised?	"Not sure" responses coded to missing.	\checkmark	✓	✓
circumcision_days	Days from enrollment to reported date of circumcision		~	~	~
circ_benefit_hygiene circ_benefit_reducedhiv circ_benefit_reducedcancer circ_benefit_reducedsti	Q.3. What do you believe are the health benefits of male circumcision? (Indicate all that apply.)	Series of indicator variables derived from survey question which allowed participant to select multiple responses. Value is 'Yes' for each response selected and missing otherwise Variable coded to missing if participant reported being uncircumcised. "Don't want to answer" and "I am not sure" responses coded to missing.	~	~	✓
circumcised_age	Q.4. At what age were you circumcised?	Derived from 'when_circ' and 'age_unit_circ', separated into categories. - If numeric age given but units missing then value is missing	~	~	✓
circumcised_location	Q.6. Where were you circumcised?	Derived variable incorporating responses provided in the free text field option, " if 'Other', specify" which matched a pre-specified response provided in the survey. "Don't want to answer" and "I am not sure" responses coded to missing.	~	~	✓

circumcised_reason	Q.8. What was the main reason why you were circumcised?	Derived variable incorporating responses provided in the free text field option, " if 'Other', specify" which matched a pre-specified response provided in the survey.	~	~	~
		"Don't want to answer" and "I am not sure" responses coded to missing.			
uncirc_benefit_hygiene uncirc_benefit_reducedhiv uncirc_benefit_reducedcancer uncirc_benefit_reducedsti	Q.3. What do you believe are the health benefits of male circumcision? (Indicate all that apply.)	Series of indicator variables derived from survey question which allowed participant to select multiple responses. Value is 'Yes' for each response selected and missing otherwise			
		Variable coded to missing if participant reported being circumcised.	~	\checkmark	~
		"Don't want to answer" and "I am not sure" responses coded to missing.			
uncirc_reason	Q.4. What is the main reason that you have not yet been circumcised?.	Derived variable incorporating responses provided in the free text field option, " if 'Other', specify" which matched a pre-specified response provided in the survey.	~	✓	~
		"Don't want to answer" and "I am not sure" responses coded to missing.			
uncirc_future	Q.6. Would you ever consider being circumcised in the future?	Variable coded to missing if participant reported being circumcised.	✓	\checkmark	~
uncirc_future_reason	Q.7. Which of the following	"Not sure" responses coded to missing. Variable coded to missing if participant reported			
	might increase your willingness to be circumcised the most?	being circumcised. "Don't want to answer" and "I am not sure" responses coded to missing.	✓	~	~

uncirc_services_free	Q.8. Were you aware that circumcision services are provided free of charge at most health facilities?	Variable coded to missing if participant reported being circumcised. "Don't want to answer" responses coded to missing.	~	~	~
uncirc_aware_free	Q.9. Where did you learn that circumcision services were available free at most health facilities?	Variable coded to missing if participant reported being circumcised. "Don't want to answer" and "I am not sure" responses coded to missing.	~	~	~

Sexual Behavior

			Ava	ailability of c	data
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
ever_sex	Q.2. In your lifetime, have you ever had sex with anyone (including your spouse, friends, or someone you have just met)?	Note: Variable based on Q.2. and any relevant information provided in other or subsequent survey questions, including all partner-specific information collected on the participant's three most recent partners. "Don't want to answer" and "I am not sure"	~	~	~
partners_lifetime	Continuous variable of number of sexual partners during participant's lifetime. Q.3. In your lifetime, how many different people have you had sex with? Please remember to include casual and once-off partners (prostitutes and truck drivers) as well as long-term partners (spouses, boyfriends /girlfriends) [If you can't recall the exact number, please give a best guess]	 responses coded to missing. Note: Variable based on Q.3. and any relevant information provided in other or subsequent survey questions, including all partner-specific information collected on the participant's three most recent partners. Variable coded to missing if participant reported no prior sexual activity (lifetime). "Don't want to answer" responses coded to missing. 	~	~	×
partners_12mos	Continuous variable of number of sexual partners during the past 12 months	Note: Variable based on Q.4. and any relevant information provided in other or subsequent survey questions, including all partner-specific information collected on the participant's three most recent partners.	~	~	~

	Q.4. In the past 12 months, how many different people have you had sex with? Please remember to include casual and once-off partners (prostitutes and truck drivers) as well as long-term partners (spouses, boyfriends /girlfriends) [If you can't recall the exact number, please give a best guess]	Variable coded to zero if participant reported prior sexual activity (lifetime), but no activity in the past 12 months. Variable coded to missing if participant reported no prior sexual activity (lifetime). "Don't want to answer" responses coded to missing.			
sex_12mos	Yes/No indicator variable for any sexual activity during the past 12 months.	Variable coded 'Yes' if participant reported prior sexual activity (lifetime) and ≥1 partner in the past 12 months. Variable coded 'No' if participant reported prior sexual activity (lifetime), but no activity in the past 12 months. Variable coded to missing if participant reported no prior sexual activity (lifetime).	~	~	✓
sex_outside_12mos	Q.5. In the past 12 months, did you have sex with somebody living outside of the community?	Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months. "Don't want to answer" responses coded to missing.	~	~	✓
age_first_sex	6. How old were you when you had sex for the first time?[If you can't recall the exact age, please give a best guess]	Variable coded to missing if participant reported no prior sexual activity (lifetime). "Don't want to answer" responses coded to missing.	~	~	~

condom_lastsex	Q.7. During the last [most recent] time you had sex, did you or your partner use a condom?	Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months.	✓	√	~
		"Don't want to answer" responses coded to missing.			
alcohol_lastsex	You or partner used alcohol during most recent sex	Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months.	✓	✓	~
		"Don't want to answer" responses coded to missing.			
intergenerational_sex_12mos	Derived variable summarizing age difference between participant and participant's three most recent sexual partners (past 12 months) as reported in the following partner-specific survey question:	"Same age category" = participant's age within the same 10-year age category as all of their three most recent partners. "Partner was older" = one or more of the participant's three most recent partners was reported to be in a different and older 10-year age category as compared to the participant.			
	 Q.9. To the best of your knowledge, how old is this person? less or equal to 18 years old 19-29 years old 30-39 years old 40-49 years old 50-59 years old 	"Partner was older" = one or more of the participant's three most recent partners was reported to be in a different and younger 10-year age category as compared to the participant. Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months.	•	✓	~
condom_12mos	Yes/No indicator variable summarizing any reported	Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior	\checkmark	\checkmark	~

	condom non-use during the past 12 months as reported in the following partner-specific survey question: Q.17. When you have [had] sex with this partner, how often do you or your partner use a condom?	sexual activity (lifetime), but no activity in the past 12 months. "Don't want to answer" responses coded to missing.			
concurrency_12mos	Yes/No indicator variable summarizing any participation in multiple, concurrent (overlapping) partners during past 12 months as reported in the following partner-specific survey questions: Q.3. When was the last [most recent] time you had sex with this person (how long ago)? Q.5. When was the first time you had sex with this person [how long ago]? Q.7. Do you expect to have sex with this person again? Q.10. Over the past 12 months, during the time you were having a sexual relationship with this person, did YOU	Variable coded to "No" if participant reported (1) no partners, (2) one partner, or (3) ≥2 non- overlapping partners during the past 12 months Variable coded to "Yes" is participant reported ≥2 overlapping partners during the past 12 months Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or responded "Don't want to answer" on all supporting variables.	×	✓	•

	have sex with other people (including husband/wife)?				
exchange_12mos	Yes/No indicator variable summarizing any participation in transactional sex during past 12 months as reported in the following partner-specific survey questions: Q.8. What type of relationship do you have with this person? [Response = 'Commercial sex worker']	Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months, or responded "Don't want to answer" on all supporting variables.	V	~	~
	Q.11. Have you received money, transport, food/drink, or other goods in exchange for sex from this partner?				

			Availability of data		
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
partner1_inside_comm partner1_outside_comm partner2_inside_comm partner2_outside_comm partner3_inside_comm	Q.2. Over the past 12 months, where has this sexual partner lived to the best of your knowledge?	Values are either 'Yes' or missing: partnerX_inside_comm='Yes' indicates partner X lived within the current study community partnerX_outside_comm='Yes' indicates partner X lived outside the current study community	√	~	V
partner3_outside_comm firstpartner_sex_current secondpartner_sex_current thirdpartner_sex_current	Expect to have sex with this partner again	Possible responses: 'Yes', 'No', or missing	✓	~	~
firstpartner_lastsex firstpartner_firstsex firstpartner_futuresex secondpartner _lastsex secondpartner _firstsex secondpartner _futuresex thirdpartner _lastsex thirdpartner _firstsex thirdpartner _futuresex	 Q.3. When was the last [most recent] time you had sex with this person (how long ago)? Q.5. When was the first time you had sex with this person [how long ago]? Q.7. Do you expect to have sex with this person again? 	Note: These variables are not included in the provided data. However, they were part of the set of variables used to construct derived variable "concurrency_12mos" (described above). Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months. "Don't want to answer" responses coded to missing.	×	×	×
firstpartner_relationship secondpartner_relationship thirdpartner_relationship	Q.8. What type of relationship do you have with this person?	Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months.	√	~	~

Sexual Behavior: Three most recent partners, past 12 months

		"Don't want to answer" responses coded to missing.			
firstpartner_age secondpartner_age thirdpartner_age	 Q.9. To the best of your knowledge, how old is this person? less or equal to 18 years old 19-29 years old 30-39 years old 40-49 years old 50-59 years old 	Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months. "Don't want to answer" and "Not sure" responses coded to missing.	~	~	~
firstpartner_goods_exchange secondpartner_goods_exchange thirdpartner_goods_exchange	Q.11. Have you received money, transport, food/drink, or other goods in exchange for sex from this partner?	Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months. "Don't want to answer" responses coded to	~	~	√
firstpartner_sex_freq secondpartner_freq thirdpartner_sex_freq	Q.12. During the last 3 months [of your relationship, if it has ended] how many times did you have sex with this partner?	missing. Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months. "Don't want to answer" responses coded to missing.	~	~	✓
firstpartner_hivstatus secondpartner_hivstatus thirdpartner_hivstatus	Q.13. What is this partner's HIV status?	Note: N=79 participants reported that their partner was HIV-negative, but taking ART Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months	~	~	✓

		"Don't want to answer" and "Not sure" responses coded to missing.			
firstpartner_onarv secondpartner_onarv thirdpartner_onarv	Q.15. Is this partner taking antiretroviral treatment?	Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months	~	✓	~
		"Don't want to answer" and "Not sure" responses coded to missing.			
firstpartner_disclose_hiv secondpartner_disclose_hiv thirdpartner_disclose_hiv	Q.16. Have you told this partner your HIV status?	Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months. "Don't want to answer" responses coded to	~	V	~
		missing.			
firstpartner_condom_freq secondpartner_condom_freq thirdpartner_condom_freq	Q.17. When you have [had] sex with this partner, how often do you or your partner use a condom?	Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the past 12 months.	~	\checkmark	~
		"Don't want to answer" responses coded to missing.			
firstpartner_concurrent secondpartner_concurrent thirdpartner_concurrent	Q.18. To the best of your knowledge, did he/she ever have other sex	Variable coded to missing if participant reported (1) no prior sexual activity (lifetime) or (2) prior sexual activity (lifetime), but no activity in the			
	partners while you two were having a sexual relationship?	past 12 months. "Don't want to answer" responses coded to missing.	~	\checkmark	√

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Reproductive Health and Pregnancy

Reproductive Health and Pregnancy questions administered to sexually active (i.e. ever had sex) female participants only.

	Description D			Availability of data		
Variable Name		Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)	
number_children	Q.2. How many children have you given birth to? Please include any children that may have died at (stillbirth) or after birth. Do not include any current pregnancies or miscarriages that occur early in pregnancy (prior to 20 weeks).		~	~	~	
menopause	Q.3. Have you reached menopause (more than 12 months without a period)?		~	✓	~	
familyplan_abstain familyplan_condoms_consist familyplan_condoms_inconsist familyplan_diaphram familyplan_iud familyplan_contra_inject familyplan_contra_oral familyplan_rhythm familyplan_sterilization familyplan_withdrawal familyplan_other	Q.4. In the past 12 months, have you used any methods to prevent pregnancy?	Series of indicator variables derived from survey question which allowed participant to select multiple responses. Value is 'Yes' for each response selected and missing otherwise Derived variable incorporating responses provided in the free text field option, " if 'Other', specify" which matched a pre-specified response provided in the survey. "Don't want to answer" responses coded to missing.	~	~	✓	
currently_pregnant	Q.6. Are you currently pregnant?	"Not sure" responses coded to missing.	~	\checkmark	\checkmark	

anc_last_pregnancy	Q.5. During your last pregnancy (not current pregnancy) did you go for antenatal care?	"Don't want to answer" responses coded to missing.	~	~	~
hiv_last_pregnancy	Q.6. During your last pregnancy (not current pregnancy) were you tested for HIV?	"Not sure" responses coded to missing.	~	~	~
more_children	Q.2. Do you wish to have a child now or in the future?	Variable only asked of female participants reporting no current pregnancy.	✓	✓	✓

Medical Diagnoses

			Availability of data		lata
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
dx_cancer_ever dx_tb_ever dx_heartdisease_ever dx_hivillness_ever dx_wasting_ever dx_diarrhea_ever dx_yeastinf_ever dx_pneumonia_ever dx_pcp_ever	Q.2. Do you recall or is there a record of having any of the following serious illnesses?	Series of indicator variables derived from survey question which allowed participant to select multiple responses. Value is 'Yes' for each response selected and missing otherwise.	~	✓	~

dx_herpes_ever					
dx_cancer_lastyr dx_tb_lastyr dx_heartdisease_lastyr dx_hivillness_lastyr dx_wasting_lastyr dx_diarrhea_lastyr dx_yeastinf_lastyr dx_pneumonia_lastyr dx_pcp_lastyr dx_herpes_lastyr	Q.2. Do you recall or is there a record of having any of the following serious illnesses?	Series of indicator variables derived from survey question which allowed participant to select multiple responses. Value is 'Yes' for each response selected and date of diagnosis was within past 12 months and missing otherwise.	V	~	~
cancer_type	Q.3. [Interviewer:] What is the cancer diagnosis as recorded?	"Don't want to answer" responses coded to missing.	✓	~	~
dx_heartdisease_mi dx_heartdisease_failure dx_heartdisease_stroke	Q.3. [Interviewer:] What is the heart disease or stroke diagnosis as recorded?	Series of indicator variables derived from survey question which allowed participant to select multiple responses. Value is 'Yes' for each record identified and missing otherwise. Derived variable incorporating responses provided in the free text field option, " if 'Other', specify" which matched a pre-specified response provided in the survey. "Don't want to answer" responses coded to missing.	V	~	~
tb_type	Q.3. [Interviewer:] What is the tuberculosis diagnosis as recorded?	"Don't want to answer" responses coded to missing.	\checkmark	~	~
tbsx_cough tbsx_fever tbsx_lymphnodes tbsx_coughblood tbsx_nightswets tbsx_weightloss	Q.2. – Q.7. Does the participant currently have a [SYMPTOM] that has lasted for more than 2 weeks?	Series of indicator variables derived from a series of survey questions which allowed participant to select multiple responses. Value is 'Yes' for each response and 'No' otherwise.	√	~	~

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Substance Use

Note: Substance use data are not available for ESS participants in community pair 5.

			Availability of dat		ata
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
alcohol	Q.2. In the past month, how often did you consume alcohol?	"Don't want to answer" responses coded to missing.	~	×	~
smoke	Q.3. Do you currently smoke any tobacco products, such as cigarettes, cigars, or pipes?	"Don't want to answer" responses coded to missing.	~	×	~

Stigma and Stigma Opinion

All variables in these sections have the same set of responses:

- strongly disagree
- disagree
- uncertain
- agree
- strongly agree

			Availability of data		ata
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
anticipate_stigma	Q.2. Would you/have you been hesitant to take HIV test due to fear of people's reactions if you tested HIV positive?	Note: Question administered to HIV-negative participants only. "Don't want to answer" responses coded to missing.	~	×	×
enacted_shame_stigma	Q.3. I would be ashamed if someone in my family had HIV.	Note: Question administered to HIV-negative participants only. "Don't want to answer" responses coded to missing.	~	×	×
saliva_stigma	Q.4. I fear I could contract HIV if I come into contact with saliva of person living with HIV.	Note: Question administered to HIV-negative participants only. "Don't want to answer" responses coded to missing.	~	×	×
teacher_stigma	Q.5. I think that if a teacher is living with HIV but not sick, he/she should be allowed to continue teaching.	Note: Question administered to HIV-negative participants only. "Don't want to answer" responses coded to missing.	~	×	×

children_stigma	Q.6. Children living with HIV should be able to attend school with HIV-negative children.	Note: Question administered to HIV-negative participants only. "Don't want to answer" responses coded to missing.	✓	×	×
test_community_stigma	Q.2. People are hesitant to take an HIV test due to fear of others reactions if they test HIV-positive.	Note: Question administered to HIV-negative participants only. "Don't want to answer" responses coded to missing.	~	×	×
gossip_community_stigma	Q.3. People talk badly about people living with or thought to be living with HIV.	Note: Question administered to HIV-negative participants only. "Don't want to answer" responses coded to missing.	✓	×	×
respect_community_stigma	Q.4. People living with or thought to be living with HIV lose respect or standing.	Note: Question administered to HIV-negative participants only. "Don't want to answer" responses coded to missing.	✓	×	×
enacted_verbal_stigma	Q.5. People living with or thought to be living with HIV are verbally insulted, harassed, and/or threatened.	Note: Question administered to HIV-negative participants only. "Don't want to answer" responses coded to missing.	×	×	×
enacted_physical_stigma	Q.6. People living with or thought to be living with HIV are sometimes physically assaulted.	Note: Question administered to HIV-negative participants only. "Don't want to answer" responses coded to missing.	~	×	×
enacted_family_stigma	Q.7. People living with or thought to be living with HIV are now more accepted by others.	Note: Question administered to HIV-negative participants only.	~	×	×

		"Don't want to answer" responses coded to missing.			
fear_stigma	Q.8. People living with HIV are less able to financially support themselves and their families.	Note: Question administered to HIV-negative participants only. "Don't want to answer" responses coded to missing.	~	×	×
internalize_stigma	Q.2. I think less of myself	Note: Question administered to HIV-positive participants only. "Don't want to answer" responses coded to missing.	✓	×	×
ashamed_stigma	Q.3. I felt ashamed because of having HIV.	Note: Question administered to HIV-positive participants only. "Don't want to answer" responses coded to missing.	✓	×	×
friend_stigma	Q.4. I feat that if I disclosed my HIV status to my friends they would lose respect for me.	Note: Question administered to HIV-positive participants only. "Don't want to answer" responses coded to missing.	✓	×	×
family_stigma	Q.5. I feat that if I disclosed my HIV status to my family they would exclude me from usual family activities.	Note: Question administered to HIV-positive participants only. "Don't want to answer" responses coded to missing.	✓	×	×
enacted_talk_stigma	Q.6. People have talked bad about me.	Note: Question administered to HIV-positive participants only. "Don't want to answer" responses coded to missing.	~	×	×
enacted_respect_stigma	Q.7. I have lost respect or standing in the community.	Note: Question administered to HIV-positive participants only.	~	×	×

		"Don't want to answer" responses coded to missing.			
enacted_job_stigma	Q.8. I have lost a job because of having HIV.	Note: Question administered to HIV-positive participants only.	~	×	×
		"Don't want to answer" responses coded to missing.			

Access to Care

Q.7-Q.12 have the same set of responses:

- Strongly agree
- Agree
- Uncertain
- Disagree
- Strongly disagree

			Availability of data		
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
access_care	 Q.3. In the past year, where do you most often get care when you or someone in your family is sick or hurt? Responses: Public or government Private health facility Traditional, faith or religious healer/doctor Pharmacy Community health worker OTHER 		~	×	×
medcare_private medcare_public medcare_traditional medcare_communityhealth	Q.5. In the past year where else have you received medical care or treatment.	Series of indicator variables derived from survey question which allowed participant to select multiple responses. Value is 'Yes' for each response selected. "Don't want to answer" responses coded to missing.	~	×	×

overall_access	Q.7. If I need medical care, I			
	can ger seen by an appropriate	\checkmark	x	x
	health professional without	·	••	•••
	any trouble.			
emergency_access	Q.8. It is hard for me to get	\checkmark	×	×
	medical care in an emergency	v	~	~
expensive_access	Q.9. Sometimes I go without			
	the medical care I need	\checkmark	×	×
	because it is too expensive.			
convenient_access	Q.10. Places where I can get			
	medical care are very	\checkmark	×	×
	conveniently located			
whenever_access	Q.11. I am able to get medical	\checkmark	×	×
	care whenever I need to	v	~	~
local_hiv_care	Q.12. Would you be willing to			
	come to the clinic within your			
	community to receive HIV care	\checkmark	×	×
	and treatment available			
	locally?			

Primary Endpoint Data

			Availability of data		
Variable Name	Description	Details	BHS (years 1 and 2)	AHS (years 2 and 3)	ESS (year 3)
incidence_cohort	Derived Yes/No indicator variable identifying sample of N=8,551 HIV-negative participants who enrolled in the Evaluation Protocol in year 1, completed ≥1 follow-up visit(s) in years 2 and/or 3, and therefore, form the HIV incidence cohort.	Note: HIV-negative participants who enrolled in year 2 (with or without a follow-up visit in year 3) were not included in the HIV incidence cohort.	✓	~	×
endpoint_seroconvert	Yes/No indicator variable for acquisition of HIV infection at study visit.	Variable coded to missing for participants not included in the HIV incidence cohort.	✓	~	×
endpoint_persontime	Derived continuous variable summarizing the total estimated person- time (in days) spent at risk for HIV infection over the study period.	Person-time at risk for participants who did not acquire HIV infection during study follow-up was calculated as the difference (in days) between date of enrollment and date of last follow-up visit. Person-time at risk for participants who acquired HIV infection was calculated as the difference (in days) between date of enrollment and the mid- point of the date of last HIV-negative test and first HIV-positive test. Variable coded to missing for participants not included in the HIV incidence cohort.	✓	✓	×

coverage_baseline_20sample	Derived Yes/No indicator variable to identify the sample used for population coverage levels in community pairs 5, 7, and 13 at <i>baseline</i> .	Note: This variable should be used to subset the relevant data file ("LONGCOHORT_YR1_20SAMP") and analyze change in uptake of HIV prevention interventions as pre-specified by the Evaluation Protocol.	✓	×	×
endpoint_coverage_htc	Yes/No indicator variable for uptake of HIV testing and counseling among all HIV-positive participants at study visit.	Calculated among all enrolled participants as the % HIV-tested or diagnosed as HIV-positive = (HIV-negative participants with documented negative test result within past 12 months or HIV-positive participants with prior knowledge of positive status) / (Enrolled participants) Note: Per protocol, >99% of participants enrolled in the Evaluation Protocol who completed AHS in years 2 and 3 were re-tested for HIV infection in both arms; thus, coverage of HIV testing and counseling, including achievement of UNAIDS 90- 90-90 targets cannot be analyzed.	¥	×	~
endpoint_coverage_hivpos	Yes/No indicator variable for prior knowledge of HIV-positive status among all HIV-positive participants at study visit.	Calculated among all HIV-positive participants as the % diagnosed HIV-positive = (HIV-positive participants with prior knowledge of positive status) / (HIV- positive participants) Note: Per protocol, >99% of participants enrolled in the Evaluation Protocol who completed AHS in years 2 and 3 were re-tested for HIV infection in both arms; thus, coverage of HIV testing and counseling and achievement of UNAIDS 90-90-90 targets cannot be analyzed.	V	×	✓

endpoint_coverage_onart	Yes/No indicator variable	Calculated among all HIV-positive participants as			
	for uptake of ART among	the % on treatment =			
	all HIV-positive	(HIV-positive participants with prior	\checkmark	\checkmark	\checkmark
	participants at study visit.	knowledge of positive status currently			
		receiving ART) / (HIV-positive participants)			
endpoint_coverage_vlsupp	Yes/No indicator variable	Calculated among all HIV-positive participants as			
	for viral suppression	the % virally suppressed (combined overall UNAIDS			
	among all HIV-positive	target) =			
	participants at study visit.	(HIV-positive participants with prior	\checkmark	\checkmark	\checkmark
		knowledge of their HIV-positive status			
		receiving ART who have HIV-1 RNA <400			
		copies per mL) / (HIV-positive participants)			
mc_cohort_20samp	Yes/No indicator variable				
	for inclusion in				
	circumcision analysis				
endpoint_coverage_mc	Yes/No indicator variable	Calculated among all HIV-negative participants			
	for uptake of male	aged 16-49 years as the % circumcised =			
	circumcision at study visit.	(HIV-negative male participants aged 16–	\checkmark	/	/
		49 years self-reported to be circumcised) /	v	v	v
		(HIV-negative male participants aged 16–			
		49 years)			
endpoint_first_90	Yes/No indicator variable	Calculated among all HIV-positive participants as			
	for prior knowledge of	the % diagnosed HIV-positive =			
	HIV-positive status (i.e.	(HIV-positive participants with prior			
	diagnosed) among all HIV-	knowledge of positive status) / (HIV-			
	positive participants at	positive participants)			
	study visit.			4.5	
		Note: Per protocol, >99% of participants enrolled in	\checkmark	×	V
		the Evaluation Protocol who completed AHS in			
		years 2 and 3 were re-tested for HIV infection in			
		both arms; thus, coverage of HIV testing and			
		counseling, including achievement of UNAIDS 90-			
		90-90 targets cannot be analyzed.			

endpoint_second_90	Yes/No indicator variable	Calculated among diagnosed HIV-positive			
	for uptake of ART among	participants as the % on treatment =			
	diagnosed persons at	(HIV-positive participants with prior	\checkmark	1	 ✓
	study visit.	knowledge of positive status currently	•	·	
		receiving ART) / (diagnosed HIV-positive			
		participants)			
endpoint_third_90	Yes/No indicator variable	Calculated among diagnosed HIV-positive			
	for viral suppression	participants on treatment as the % virally			
	among those diagnosed	suppressed =			
	and on ART at study visit.	(HIV-positive participants with prior	\checkmark	\checkmark	
		knowledge of their HIV-positive status	v	v	v
		receiving ART who have HIV-1 RNA <400			
		copies per mL) / (diagnosed HIV-positive			
		participants on ART)			
endpoint_overall_90	Yes/No indicator variable	Calculated among all HIV-positive participants as			
	for viral suppression	the % virally suppressed (combined overall UNAIDS			
	among all HIV-positive	target) =			
	persons (irrespective of	(HIV-positive participants with prior	\checkmark	\checkmark	✓
	diagnosis or ART status) at	knowledge of their HIV-positive status			
	study visit.	receiving ART who have HIV-1 RNA <400			
		copies per mL) / (HIV-positive participants)			
endpoint_death	Yes/No indicator variable	Note: Death data available for participants enrolled			
	for death during study	in Evaluation Protocol in years 1 and 2 only.	\checkmark	\checkmark	×
	follow-up.				
death_days	Days from enrollment to	Note: Death data available for participants enrolled			
	documented date of death	in Evaluation Protocol in years 1 and 2 only.	\checkmark	\checkmark	×
	during study follow-up.				
death_primary_cause	Derived variable of the	Note: Death data available for participants enrolled			
,_	primary cause of death as	in Evaluation Protocol in years 1 and 2 only.			
	reported by family		\checkmark	./	×
	member(s) and/or		v	v	^
	recorded on the death				
	certificate.				

death_group_cause	Derived variable summarizing the cause of death according to the following categories: Any Infectious Cause Any Non-infectious Cause Trauma	Note: Death data available for participants enrolled in Evaluation Protocol in years 1 and 2 only.	√	✓	×
	Unknown				