

Supplementary Appendix 1

(A) List of mental health variables

Variable description/question	DREAMS	Multi-level	Isisekelo Sempilo	Thetha Nami	TasP
Shona Symptoms Questionnaire					
In the past 7 days: Did you have times in which you were thinking deeply or thinking about many things	mv_ment_h ealth01	mv_ment_h ealth01	mv_ment_h ealth01		
Did you find yourself sometimes failing to concentrate?	mv_ment_h ealth02	mv_ment_h ealth02	mv_ment_h ealth02		
Did you lose your temper or get annoyed over trivial matters?	mv_ment_h ealth03	mv_ment_h ealth03	mv_ment_h ealth03		
Did you have nightmares or bad dreams?	mv_ment_h ealth04	mv_ment_h ealth04	mv_ment_h ealth04		
Did you sometimes see or hear things which others could not see or hear?	mv_ment_h ealth05	mv_ment_h ealth05	mv_ment_h ealth05		
Was your stomach aching?	mv_ment_h ealth06	mv_ment_h ealth06	mv_ment_h ealth06		
Were you frightened by trivial things?	mv_ment_h ealth07	mv_ment_h ealth07	mv_ment_h ealth07		
Did you sometimes fail to sleep or lose sleep?	mv_ment_h ealth08	mv_ment_h ealth08	mv_ment_h ealth08		
Were there moments when you felt life was so tough that you cried or wanted to cry	mv_ment_h ealth09	mv_ment_h ealth09	mv_ment_h ealth09		
Did you feel run down (tired)?	mv_ment_h ealth10	mv_ment_h ealth10	mv_ment_h ealth10		
Did you at times feel like committing suicide?	mv_ment_h ealth11	mv_ment_h ealth11	mv_ment_h ealth11		
Were you generally unhappy with the things you were doing each day?	mv_ment_h ealth12	mv_ment_h ealth12	mv_ment_h ealth12		
Was your work/school lagging behind?	mv_ment_h ealth13	mv_ment_h ealth13	mv_ment_h ealth13		
Did you feel you had problems deciding what to do?	mv_ment_h ealth14	mv_ment_h ealth14	mv_ment_h ealth14		
Patient Health Questionnaire (PHQ-9)					

Little interest or pleasure in doing things			mv_phq9_ment01	mv_phq9_ment01	LittleInterestPleasure
Feeling down, depressed, or hopeless			mv_phq9_ment02	mv_phq9_ment02	FeelingDown
Trouble falling or staying asleep, or sleeping too much			mv_phq9_ment03	mv_phq9_ment03	TroubleWithSleep
Feeling tired or having little energy			mv_phq9_ment04	mv_phq9_ment04	TiredNoEnergy
Poor appetite or overeating			mv_phq9_ment05	mv_phq9_ment05	Appetite
Feeling bad about yourself-or that you are a failure or have let yourself or your family down			mv_phq9_ment06	mv_phq9_ment06	FeelingBadOrFailure
Trouble concentrating on things, such as reading the newspaper or watching television			mv_phq9_ment07	mv_phq9_ment07	TroubleConcentrating
Moving or speaking so slowly that other people could have noticed? Or the opposite?			mv_phq9_ment08	mv_phq9_ment08	MovingSlowOrFast
Thoughts that you would be better off dead or of hurting yourself in some way			mv_phq9_ment09	mv_phq9_ment09	ThinkOfDeathOrHarming

(B) List of Exposure variables

Variable description/question	DREAMS	Multi-level	Isisekelo-Sempilo	Thetha Nami	TasP
Food insecurity					
In the last 12 months did you or any other individuals in your household ever cut the size of your meals or skip meals because there wasn't enough money for food?	ie_foodfreq	ie_foodfreq	ie_foodfreq	ie_foodfreq	ChildMissedFoodFinReasons
Violence					
Has anyone (any male if asking a female participant) ever done any of the following things to you: Say or do something that humiliate you	srs_female_violence_0	srs_female_violence_0	srs_female_violence_0	srs_emo_violence01	

		srs_male_violence_0	srs_male_violence_0	srs_emo_violence03	
Threaten to hurt/harm you or someone close to you.	srs_female_violence_3	srs_female_violence_3	srs_female_violence_3	srs_emo_violence04	
		srs_male_violence_3	srs_male_violence_3	srs_emo_violence05	
Insult you or make you feel bad about yourself	srs_female_violence_4	srs_female_violence_4	srs_female_violence_4	srs_emo_violence02	
		srs_male_violence_4	srs_male_violence_4		
Push, shake you or throw something at you	srs_female_violence_5	srs_female_violence_5	srs_female_violence_5	srs_phy_violance02	
		srs_male_violence_5	srs_male_violence_5		
Slap you	srs_female_violence_6	srs_female_violence_6	srs_female_violence_6	srs_phy_violance01	
		srs_male_violence_6	srs_male_violence_6		
Twist your arm or pull your hair	srs_female_violence_7	srs_female_violence_7	srs_female_violence_7		
		srs_male_violence_7	srs_male_violence_7		
Punch you with his fist or something that could hurt	srs_female_violence_8	srs_female_violence_8	srs_female_violence_8	srs_phy_violance03	
		srs_male_violence_8	srs_male_violence_8		
Kick, drag or hit you	srs_female_violence_9	srs_female_violence_9	srs_female_violence_9		
		srs_male_violence_9	srs_male_violence_9		
Tried to strangle you or burn you	srs_female_violence_10	srs_female_violence_10	srs_female_violence_10	srs_phy_violance04	
		srs_male_violence_10	srs_male_violence_10		
Threatened to stab you with knife or other weapon	srs_female_violence_11	srs_female_violence_11	srs_female_violence_11	srs_phy_violance05	
		srs_male_violence_11	srs_male_violence_11		
Attack you with a weapon	srs_female_violence_12	srs_female_violence_12	srs_female_violence_12		
		srs_male_violence_12	srs_male_violence_12		
Touched you in a sexual way	srs_female_violence_13	srs_female_violence_13	srs_female_violence_13		

		srs_male_violence_13	srs_male_violence_13		
Tried to force you to have sex with him but didn't succeed	srs_female_violence_14	srs_female_violence_14	srs_female_violence_14	srs_sex_violanc02	
		srs_male_violence_14	srs_male_violence_14		
Physically force you to have sex with him	srs_female_violence_15	srs_female_violence_15	srs_female_violence_15	srs_sex_violanc01	
		srs_male_violence_15	srs_male_violence_15		
Force you to perform sexual activities with him	srs_female_violence_16	srs_female_violence_16	srs_female_violence_16	srs_sex_violanc03	
Please tell me whether you agree or disagree with the following statements. I have been a victim of crime in the last 12 months.					SafSecVictimCrimeLast12m
I have been a victim of a sexual crime in the last 12 months					SafSecVictimSexCrimeLast12m
I have been forced to have sex when I did not want to, either by my regular partner or by someone else.					SafSecForcedSex
Severe physical abuse that you still remember					
Sexual abuse					
Rape					
Social support					
I get visits from friends and relatives.					SocSuppVisits
I get useful advice about important things in my life					SocSuppAdvice
I can talk to someone about problems at work or with housework.					SocSuppTalkReWork
I can talk to someone I trust about my personal problems.					SocSuppTalkRePersonal
I get help with childcare.					SocSuppChildcare
I have people around me who care what happens to me.					SocSuppPeopleAround
I get love and affection.					SocSuppLoveAffection
I get help around the homestead.					SocSuppHelpInHouse
I can borrow money in an emergency.					SocSuppBorrowMoney
I can get help when I need transport.					SocSuppTransport
I can get help when I am sick.					SocSuppWhenSick

Do you have at least one trusted male/female friend?	mv_trustfriend_fem	mv_trustfriend_fem	mv_trustfriend_fem	mv_trustfriend_fem	
		mv_trustfriend_mal	mv_trustfriend_mal	mv_trustfriend_mal	
Is there is a female/male in your community from whom you can borrow money	mv_borrmoney_fem	mv_borrmoney_fem	mv_borrmoney_fem	mv_borrmoney_fem	
		mv_borrmoney_mal	mv_borrmoney_mal	mv_borrmoney_mal	
Do you have a safe and private place to meet with girls and young women who are like you	mv_privmeetpl ace_fem	mv_privmeetpl ace_fem	mv_privmeetpl ace_fem	mv_privmeetpl ace_fem	
		mv_privmeetpl ace_mal	mv_privmeetpl ace_mal	mv_privmeetpl ace_mal	
Do you know someone in your community whom you could turn to if you had a serious problem?	mv_knowguard_fem	mv_knowguard_fem	mv_knowguard_fem	mv_knowguard_fem	
		mv_knowguard_mal	mv_knowguard_mal	mv_knowguard_mal	
HIV status					
HIV Test Result	dr_hiv_test_res ult	dr_hiv_test_res ult	sc_dbs_hiv_re sult	sc_dbs_hiv_re sult	DBSResult
Sexual behaviour					
Have you ever been pregnant?	sr_everpregna nt	sr_everpregna nt	sr_everpregna nt	sr_everpregna nt	EverPregnant
Are you currently pregnant?	sr_currpregnan t	sr_currpregnan t	sr_currpregnan t	sr_currpregnan t	
Have you ever had sex?	srs_everhadse x	srs_everhadse x	srs_everhadse x	srs_everhadse x	EverHadSex
Condom use at last sex	srs_usecondo mlasttime	srs_usecondo mlasttime	srs_usecondo mlasttime	srs_usecondo mlasttime	MRPUsedCondomLastTim e
Have you had any sex without a condom in the last month? (condomless sex)	srs_condomles s_1month	srs_condomles s_1month	srs_condomles s_1month	srs_condomles s_1month	
Have you had any sex without a condom in the last 12 months? (condomless sex)	srs_condomles s12months	srs_condomles s12months	srs_condomles s12months	srs_condomles s12months	
OTHER behaviours					
Do you ever drunk alcohol?	hq_everdrink	hq_everdrink	hq_everdrink	hq_everdrink	AlcoholEver
How many days in the LASTSIX MONTHS have you drunk more than 3 big bottles of beer and/or more than 6 glasses of other alcoholic drink?					AlcoholUseLast6m
How many days have you drunk 5 or more drinks (in succession) on one or more day?	hq_more5drink s_day	hq_more5drink s_day	hq_more5drink s_day	hq_more5drink s_day	
Socio-demographics					

Participant's age	pd_age	pd_age	pd_age	pd_age	AgeAtRegistration
Gender	pd_sex	pd_sex	pd_sex	pd_sex	Sex
urban_or_rural	urban_or_rural	urban_or_rural	urban_or_rural	urban_or_rural	
Are you currently in school?	ie_inschool	ie_inschool	ie_inschool	ie_inschool	CurrentlyInEmployment/NonEmploymentType
Migration (surveillance episodes data)					
Sexually transmitted infections					
STI Test Result - Chlamydia trachomatis			sp_sti_result_ct	sp_sti_result_ct	
STI Test Result - Neisseria gonorrhoeae			sp_sti_result_ng	sp_sti_result_ng	
STI Test Result - Trichomonas vaginalis			sp_sti_result_tv	sp_sti_result_tv	
HSV-2	dr_hsv_test_result	dr_hsv_test_result			