

Violence Against Children and Youth Surveys (VACS)

Tanzania Data User Guide

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Introduction

The Tanzania 2024 Violence Against Children and Youth Survey (VACS) was a nationally representative cross-sectional household survey of children and youth ages 13–24 years. The survey was designed to produce national estimates of experiences of physical, sexual, and emotional violence in childhood. The survey included a randomly selected, representative subset of the population, at one specific point in time, providing estimates of violence indicators by age group, sex, and other demographic factors. All data were collected through an in-person interview with trained interviewers. The survey also included an HIV testing component. The objectives of the Tanzania 2024 VACS were to:

- Estimate the national prevalence of physical, emotional and sexual violence in childhood and young adulthood.
- Identify risk and protective factors for physical, emotional and sexual violence against children and youth in Tanzania to inform stakeholders and guide prevention efforts.
- Identify the health and social correlates of violence against children and youth in Tanzania.
- Assess the knowledge and utilization of medical, psychosocial, legal, and protective services available for children and youth who have experienced violence.
- Make recommendations to relevant ministries in Tanzania, development partners, civil society and other stakeholders on developing, improving, and enhancing prevention and response strategies to address violence against children and youth as part of a comprehensive multi-sectoral approach to child protection.
- Identify areas for future research.

Through a Data Sharing Agreement, the government of Tanzania provides access to public use datasets (PUD) for the Tanzania 2024 VACS for the purpose of informing efforts to fill gaps in understanding violence against children and youth and guide the development and implementation of prevention and response efforts. The purpose of the present Data User Guide is to provide information on how the survey was implemented and guidance on important considerations to give when analyzing the Tanzania 2024 VACS data.

Methods

Overview

During the survey implementation, data were collected from participants ages 13–24 and the head of household. The head of household survey was short (lasting about 15 minutes) and was intended to build rapport, seek consent for minor participants or permission to interview older participants, and to gather socio-economic information about the household. Even for households where no eligible participant was identified, the head of household was still asked to complete the survey. In the PUDs of the Tanzania 2024 VACS, only complete participant questionnaires were included. A total of 9207 females and 3286 males in-person interviews were completed during March to June of 2024.

Eligibility Criteria

Households were included if there was at least one eligible member of the household who was between ages 13 and 24 years and spoke English or Swahili. Persons who did not have the capacity to understand and/or respond to the survey questions due to cognitive impairment or significant physical disability (e.g., severe hearing or speech impairment) were ineligible to participate. For Tanzania, participants with other disabilities who have capacity to understand and comprehend the questions asked in the survey were included in the study. Persons living or residing in institutions such as hospitals, prisons, nursing homes, and other similar institutions were not included in the survey because VACS is a household-based survey. Males and

females younger than 13 years were excluded because they may not have the maturity to answer some of the complex survey questions. Males and females older than 24 years were also excluded because of a desire to focus on understanding violence against children and youth. The ability to accurately recall events in the past related to childhood experiences is diminished with time.

The Tanzania VACS also included voluntary HIV testing. HIV testing was offered to all participants ages 15–24 who did not report a previous positive HIV test. HIV testing procedures were based on the World Health Organization’s *Consolidated guidelines on HIV testing services 2015* and Tanzania national guidelines for HIV testing services. These guidelines recommend testing individuals who can give their own consent for HIV testing without consent from a parent/guardian and have the right to receive their test results in private without a parent/guardian present, and to choose whether or not to disclose their results to parents or significant others in accordance with global recommendations from the World Health Organization. Therefore, 15–24-year-old participants or mature minors were eligible for HIV testing. In Tanzania mature minor is defined as 13-14-year-old who is sexually active, pregnant, a parent, married, the head of a household, or are orphaned. Testing was offered to participants who completed the questionnaire. Testing was preceded by counseling. Participants were provided test results and post-test counseling, including active linkage to treatment for all HIV-positive participants according to Tanzania national standards.

Survey Design and Sampling

The Tanzania 2024 VACS used the Tanzania 2022 Tanzania Population and Housing Census. This sample frame was developed and maintained by the Tanzania National Bureau of Statistics (NBS) and Office of Chief Government Statistician (OCGS) . The survey used a three-stage cluster sampling design. Separate primary sampling units (PSUs) were randomly assigned as male or female enumeration areas (EAs). The Tanzania VACS used a split sample approach, such that the survey for females was conducted in different communities than the survey for males. This approach was to protect the confidentiality of participants by reducing the chance that opposite sex perpetrators and victims will be interviewed in the same community, discover the purpose of the study, and possibly retaliate against participants.

The Tanzania VACS used a three-stage sample design:

Stage 1: A total of 500 EAs (369 female EAs and 131 males EAs) were selected from 104,483 EAs in the country using probability proportional to size based on 2022 census and household counts.

Stage 2: 25 households were randomly selected from each of the 500 EAs.

Stage 3: One eligible 13–24-year-old participant was selected from each household. An eligible male or female was selected depending on whether it was a male EA or a female EA.

Sample Size

The sample size was calculated for each domain with specific prevalence and margin of errors using the following cluster sample size formula and assumptions:

$$n = deff * [(Z^2 * p * (1 - p)) / e^2]$$

Additionally, the survey oversampled females in 4 regions: Dar es Salaam, Kagera, Mbeya, and Shinyanga.

Sample Size Calculations based on Sexual Violence Prevalence, Tanzania VACS, 2024

Sampling Domain	Assumptions	Females	Males
Mainland	Predicted prevalence (p)	27.90%	13.40%
	Margin of Error (e)	3.00%	2.50%
	Target Sample Size (n)	1718	1427
Zanzibar	Predicted prevalence (p)	6.20%	9.30%
	Margin of Error (e)	2.00%	2.50%
	Target Sample Size (n)	1118	1037
Oversampled Regions	Predicted prevalence (p)	27.90%	N/A
	Margin of Error (e)	4.00%	N/A
	Target Sample Size (n)	966 (x4)	N/A
Total Sample		6700	2464

In the formula, “n” is the required sample size, “deff” is the design effect, “Z” is the z-score, “p” is the estimated prevalence, and e is the margin of error. The calculations applied the same deff (2.0) and a z score (1.96 for 95% confidence limits) for all samples (Table above).

Data Collection

Data collection was conducted between March 2024 and June 2024. Data collection was done electronically using the Open Data Kit (ODK) program, installed on data collection tablets running on the Android operating system. Data collection was conducted by trained interviewers using a structured questionnaire via face-to-face computer-assisted personal interviews (CAPI) with selected eligible participants. Before data collection began, a field pre-test was conducted. To ensure privacy during the study, interviewers were trained to conduct interviews in safe and secure locations to maximize disclosure and ensure confidentiality. If the privacy of a participant could not be ensured, interviewers were instructed to reschedule the interview. The initial visit record form of the survey tool had a section that allowed the survey team to track incomplete interviews and interviews that needed to be rescheduled. Field teams were trained to make three attempts to reach every sampled household. After three unsuccessful attempts, the selected household was considered as a non-response and was not replaced with another household.

Response Rate

A survey response rate is the percentage of the total number of completed survey responses out of the total number of participants. VACS calculates response rates based on eligibility disposition codes as the percentage of the total number of completed responses out of the total number of eligible participants (Table below).

Accordingly, the Household Listing Response Rate (HLRR) = $(1+2) / (1 + 2 + 4 + 6)$. Overall, the survey teams screened 12,210 screened households, of which 12197 (98.4%) were occupied or survey eligible.

The household listing rate among the occupied households was 99.1% (11,999 of 12,197).

The Head of Household (HHH) Response Rate (HHHRR) = $(1) / (1 + 2 + 3 + 4)$. The Overall HHH Response Rate (OHHHRR) = Household Listing Response Rate x HHH Response Rate.

The *Overall Response Rate for Heads of Household* = *Household Listing Response Rate* (99.1) x *the Heads of Household Response Rate* (99.8) = 98.1%.

Response Rate Calculations

VACS Disposition Codes

Household Listing	Head of Household Interviews	Individual Interview
[1] Completed Listing : Eligible Identified	[1] Completed	[1] Completed
[2] Completed Listing : No Eligible Identified	[2] Refused	[2] Refused
[3] Unoccupied/Vacant/Abandoned	[3] Incomplete	[3] Incomplete
[4] No one home	[4] Not Available	[4] Not Available
[5] Demolished	[5] Not Survey Eligible/Language/Disability etc.	[5] Does not speak study language/s
[6] Refused		
[7] Other/Not Survey Eligible		

VACS Disposition Codes Outcome and Response Rate formula Calculations

Household Listing Outcome	Head of Household Interviews Outcome	Individual Interview Outcome
Completed = 1,2	Completed = 1	Completed = 1
Eligible = 1, 2, 4, or 6	Eligible = 1, 2, 3, 4	Eligible = 1, 2, 3, 4
Response Rates = Completed/Eligible) HLRR = 1,2 / 1, 2, 4, or 6	HHRR= 1 / 1, 2, 3, 4	IRR = 1 / 1, 2, 3,4
Overall Response Rates = (Listing response rate * individual response rate)	OHH_RR = HLRR * HHRR	OIRR = HLRR * IRR

The individual Youth Participant is Eligible if Household Listing response =1 AND Individual Interview responses 1, 2, 3, 4. Individual Complete: Individual must be eligible) AND Individual Interview response = 1. Then, Individual Response Rate (IRR): (1) / (1 + 2 + 3+ 4). The Overall Individual Youth Response Rate = Household Listing Response Rate times the Individual Response Rate.

The cumulative or Overall Response Rate for Individual youth = *Household Listing Response Rate* (99.1%) x *the Individual Response Rate* (95.1%) = 93.4%.

The HIV response rates (HIVRR) were calculated as the proportion of participants who completed the HIV testing or reported a past positive test among the HIV survey eligible participants (15+ or mature minors and completed the individual youth survey).

The Overall Response Rate for HIV interviews = *Overall Individual Response Rate* (98.1%) x *HIV response rate* (95.9) = 88.94%.

The Tanzania VACS had very high overall response rates for both male and female participants. Given the split sample design of the Tanzania 2024 VACS, response rates, including household and HIV response rates, should be reported separately for males and females if the analysis of survey results is separate.

Weighting

To analyze the 2024 Tanzania VACS, a survey weight was calculated for each record. The survey had a nested sampling design where samples were designated as national or regional for the four oversampled regions. However, CDC and its Tanzanian partners agreed to take the entire sample to calculate the national weights instead of separate calculations. They weighted the data to obtain parameters that were representative of the total population of Tanzania children and youth aged 13–24 years old.

A three-step weighting procedure was incorporated:

Step 1: Computation of base weight for each sampled participant;

Step 2: Adjustment of the base weights for differential non-response in the sample; and

Step 3: Calibration of the post-stratification (adjusted) weights to known population totals.

Weighting Procedures:

Base weight

Base weights were generated at the individual level by multiplying the inverse of the three selection probabilities that represented the overall chance for an individual to be included in the study. The individual base weight (IBW) = PSU weight * Household weight * Individual weight. For the households, it was just the PSU weight * Household weight. The HIV base weight is the same as the individual base weight.

For the PSUs, Households, and Individuals, we determined the (Weighted) Response Rates as Sums of base weights of Completed / sums of weights of eligible PSUs or Household or individuals. Then, the overall nonresponse weight (NRW) was calculated as the product of the inverse of three weighted response rates (NRW = $(1/PSURR) * (1/HHRR) * (1/INDRR)$). A few classes of HIV participants had NRW weight > 3.0, but all were under 2.5 after merging the urban/Rural categories for two classes.

Post-Stratification Weight

The post-stratification weighting involved adjusting the sampling weights with the population size using a known population distribution. We obtained the 2022 population and housing census figures from the Tanzania Central Statistics Offices. Calibrating this with the population census figures for 13 -to 24-year-olds produced the post-stratification weights using the formula:

Post-stratification weights (PSW) = population in the stratum / Sum of non-response Adjusted Weights in the stratum.

Four strata with large PSWs on the Mainland necessitated the collapsing of the urban/rural classes to minimize extreme variability.

HIV Weight Calculation

The same approach for calculating the final sample weight was followed in calculating the HIV weight. However, for the HIV weight, two post stratification classes of population (age 15–24 years and sex) were used for the post-stratification adjustment, as it only applies to those age groups eligible for HIV testing.

The final sample weight for each participant in a target population domain was determined by multiplying the individual base, nonresponse, and post-stratification weights.

- The final Sample Weight (SAMPLEWEIGHT) = *Individual Base Weight* × *Non-Response Weight* × *Post-Stratification Weight*.
- The final Household Participant Weight (SAMPLEWEIGHT_HH) = Household Base weight x Household participant none-response weight x the household post-stratification weight.
- The final HIV (SAMPLEWEIGHT_HIV) weight is the product of the household base weight, the

adjusted HIV nonresponse weight, and the post-stratification HIV weights.

Trimming was performed for Zanzibar male and female samples to bring the multiplicative effects of the weights ($M_{eff} = 1 + CV^2$) below the recommended level of 2.0.

Calculated Variables

For the 2024 Tanzania VACS, the variable STRATA should be used for stratification, the variable CLUSTER should be used for clustering, and the variable SAMPLEWEIGHT should be used as the survey weight.

The Tanzania 2024 VACS PUD includes the following list of calculated variables:

Sexual Violence

Description	Variable Name
Any lifetime sexual violence	SAB
Any sexual violence in the past 12 months	SV12MTH
Unwanted sexual touching in past 12 months	SV12MTH1
Attempted sex in the past 12 months	SV12MTH2
Physically forced sex in the past 12 months	SV12MTH3
Pressured sex in the past 12 months	SV12MTH4
Any sexual violence in childhood	SV18
Unwanted sexual touching in childhood	SV1_ONLY
Attempted sex in childhood	SV2_ONLY
Physically forced sex in childhood	SV3_ONLY
Pressured sex in childhood	SV4_ONLY
Told someone about any incident of sexual violence	TELL
Knew a place to seek professional help among those who experienced any sexual violence	KNEWPLACE
Sought help for any incident of sexual violence among those who experienced any sexual violence	SOUGHT
Received professional services for any incident of sexual violence	RECVDSERV
Had first sex before age 16	SEXDEBUTAGE15
Ever engaged in transactional sex (received money, food, or gifts for sex)	TRANSEXEVER

Physical Violence

Description	Variable Name
Any lifetime physical violence	PV
Any lifetime physical violence by intimate partner	PVPART
Any lifetime physical violence by peer	PVPEER
Any lifetime physical violence by parent, adult caregivers & other adult relatives	PVPARE
Any lifetime physical violence by adults in the community	PVCOMM
Physical violence by any perpetrator type in the past 12 months	ANYPV12
Physical violence in the past 12 months by intimate partner	IPV12
Physical violence in the past 12 months by peers	PVPEER12
Physical violence in the past 12 months by parent, adult caregivers & other adult relatives	PVPARE12
Physical violence in the past 12 months by adults in the community	PVCOMM12
Physical violence by any perpetrator type in childhood	PVTOT18
Physical violence in childhood by intimate partner	PVPART18
Physical violence in childhood by peers	PVPEER18
Physical violence in childhood by parent, adult caregivers & other adult relatives	PVPARE18
Physical violence in childhood by adults in the community	PVCOMM18
Told someone about any incident of physical violence	PVTELL
Knew a place to seek professional help among those who experienced any physical violence	PVKNEWPLACE
Sought help for any incident of sexual violence among those who experienced any physical violence	PVSOUGHT
Received professional service for any incident of physical violence	PVRECVDSEV

Emotional Violence

Description	Variable Name
Any lifetime emotional violence by parent, adult caregiver or other adult relative	EVILT
Any emotional violence in the past 12 months by parent, adult caregiver or other adult relative	EV12mth1
Any emotional violence in childhood by parent, adult caregiver or other adult relative	EV118

Other Variables

Description	Variable Name
Final HIV Status	HIVPOS
Two age categories	AGEGRP
HIV Age group	HIVAGEGRP
Strata variable	STRATA
Cluster variable	CLUSTER
Final Sample weight	SAMPLEWEIGHT
Household size	NTOT

Creating calculated variables

Introduction:

This document provides information on selected calculated core violence variables from the Tanzania 2024 VACS. These variables are calculated from responses to questions on the survey. There are three main core violence indicators that are calculated to assess violence against children and youth:

- (1) Any lifetime violence among 13–24-year-olds
- (2) Any childhood violence (i.e., violence experienced before age 18) and
- (3) Any violence in the past 12 months

Each of these core indicators is calculated for each of the three main types of violence assessed by the VACS:

- (1) Sexual violence
- (2) Physical violence and
- (3) Emotional violence

This document also includes SAS codes that demonstrate how the three core violence variables are derived for sexual violence only. This document is to only serve as a guide to researchers in creating their own calculated variables from other VACS variables.

A. Lifetime sexual violence indicator

Four forms of sexual violence are assessed in the VACS survey:

- (1) Unwanted sexual touching
- (2) Unwanted attempted sex
- (3) Physically forced sex
- (4) Pressured sex

Multiple questions are asked to assess each form of sexual violence. Sexual violence is said to have occurred if the participant answered yes to one or more of those questions.

The numerator for this indicator is the number of 13–24-year-old participants who experienced any form of sexual violence in their lifetime. The denominator is the total number of 13–24-year-old participants.

Question Number	Variable Name	Question Number
Unwanted sexual touching	SVTCH	Has anyone ever touched you in a sexual way against your will, but did not try and force you to have sex? Touching in a sexual way against your will includes things like fondling, pinching, or grabbing. It could also include touching you on or around your sexual body parts.
Unwanted attempted sex	SVAFSSX	Has a current or ex-partner ever tried to make you have sex against your will but the sex did not happen? They might have tried to physically force you to have sex or they might have tried to pressure you to have sex through harassment or threats.
	SVAFSANY	Has anyone [else] ever tried to make you have sex against your will but the sex did not happen? If the individual did not have an intimate partner: They might have tried to physically force you to have sex or they might have tried to pressure you to have sex through harassment or threats.
Physically forced sex	SVPFSSX	Has a current or ex partner ever physically forced you to have sex against your will?
	SVPFSANY	Has anyone [else] ever physically forced you to have sex against your will?
Pressured sex	SVPRSSX	Has a current or ex partner ever pressured you to have sex against your will, such as through harassment or threats, and the sex did happen?
	SVPRSANY	Has anyone [else] ever pressured you to have sex against your will, such as through harassment or threats, and the sex did happen?

SAS code for lifetime sexual violence indicators:

```

/*Reported any lifetime unwanted sexual touching*/
IF SVTCH IN (.,98,99) THEN SV1LT=.;
ELSE IF SVTCH=1 THEN SV1LT=1;
ELSE SV1LT=2;
/*Reported any lifetime unwanted attempted sex */
IF SVAFSSX IN (.,98,99) & SVAFSANY IN (.,98,99) THEN SV2LT=.;
ELSE IF SVAFSSX=1 | SVAFSANY=1 THEN SV2LT=1;
ELSE SV2LT=2;
/*Reported any lifetime physically forced sex*/
IF SVPFSSX IN (.,98,99) & SVPFSANY IN (.,98,99) THEN SV3LT=.;
ELSE IF SVPFSSX=1 | SVPFSANY=1 THEN SV3LT=1;
ELSE SV3LT=2;
/*Reported any lifetime pressured sex*/
IF SVPRSSX IN (.,98,99) & SVPRSANY IN (.,98,99) THEN SV4LT=.;
ELSE IF SVPRSSX=1 | SVPRSANY=1 THEN SV4LT=1;
ELSE SV4LT=2;
/*Reported any lifetime sexual violence*/
IF SV1LT=1 | SV2LT=1 |SV3LT=1 |SV4LT=1 THEN SAB=1; *YES;
ELSE IF SV1LT=. & SV2LT=. & SV3LT=. & SV4LT=. THEN SAB=.; *MISSING;
ELSE IF SV1LT IN (2,.) & SV2LT IN (2,.) & SV3LT IN (2,.) & SV4LT IN (2,.) THEN SAB=2; *NO;

```

Description of the SAS code for lifetime sexual violence indicator:

The above SAS code can be read as: if the participant experienced unwanted sexual touching, or attempted sex, or had physically forced sex, or pressured sex in their lifetime, then the participant is considered to have experienced lifetime sexual violence. Please see Appendix for the corresponding R and STATA codes.

B. Childhood sexual violence indicator

Childhood sexual violence is defined as experiencing any form of sexual violence prior to age 18. The numerator for this indicator is the number of 18–24-year-old participants who experienced any form of childhood sexual violence. The denominator is the total number of 18–24-year-old participants.

Items of childhood sexual violence indicator in the VACS survey

Form of SV	Question Number	Question
Unwanted sexual touching	SVTCH	Has anyone ever touched you in a sexual way against your will, but did not try and force you to have sex?
	SV1TME	How many times in your life has this happened?
	SV1AGE	How old were you the last time this happened?
	SV1FTA	How old were you the first time anyone touched you in a sexual way against your will but did not try to force you to have sex?
Unwanted attempted sex	SVAFSSX	Has a current or ex-partner ever tried to make you have sex against your will but the sex did not happen?
	SVAFSANY	Has anyone (else) ever tried to make you have sex against your will but the sex did not happen?
	SV2TME	How many times in your life has anyone tried to make you have sex against your will but the sex did not happen?
	SV2AGE	How old were you the last time this happened?
Physically forced sex	SV2FTA	How old were you the first time anyone physically forced you to have sex?
	SVPFSSX	Has a current or ex partner ever physically forced you to have sex against your will?
	SVPFSANY	Has anyone (else) ever physically forced you to have sex against your will?
	SV3TME	How many times in your life have you been physically forced to have sex?
Pressured sex	SV3AGE	How old were you the last time this happened?
	SV3FTA	How old were you the first time anyone physically forced you to have sex?
	SVPRSSX	Has a current or ex partner ever pressured you to have sex against your will, such as through harassment or threats, and the sex did happen?
	SVPRSANY	Has anyone (else) ever pressured you to have sex against your will, such as through harassment or threats, and the sex did happen?
	SV4TME	How many times in your life has someone pressured you to have sex against your will, such as through harassment or threats, and the sex happened?
	SV4AGE	How old were you the last time this happened?
	SV4FTA	How old were you the first time anyone pressured you to have sex against your will, such as through harassment or threats, and the sex did happen?

SAS code for calculating childhood sexual violence indicator:

```
/*Reported any unwanted sexual touching prior to age 18 (SV1_ONLY)*/
IF SV1TME>=1 & .<SV1FTA<18 THEN SV1_ONLY =1;
ELSE IF SV1TME>=1 &18<=SV1FTA<98 THEN SV1_ONLY = 2;
ELSE IF SV1TME>=1 & (SV1FTA=99 | SV1FTA =. | SV1FTA =98) & (.<SV1AGE<18) THEN SV1_ONLY =
1;
ELSE IF SV1TME>=1 & (SV1FTA=99 | SV1FTA =. | SV1FTA =98) & (SV1AGE=. | SV1AGE=99 |SV1AGE=98)
THEN SV1_ONLY =.;
ELSE IF SVTCH = 2 THEN SV1_ONLY = 2;
/*Reported any unwanted attempted sex prior to age 18 (SV2_ONLY)*/
IF SV2TME>=1 & .<SV2FTA<18 THEN SV2_ONLY =1;
ELSE IF SV2TME>=1 &18<=SV2FTA<98 THEN SV2_ONLY = 2;
ELSE IF SV2TME>=1 & (SV2FTA=99 | SV2FTA=. | SV2FTA=98) & (.<SV2AGE<18) THEN SV2_ONLY =1;
ELSE IF SV2TME>=1 & (SV2FTA=99 | SV2FTA=. | SV2FTA=98) & (SV2AGE=99 | SV2AGE=. | SV2AGE=98)
THEN SV2_ONLY = .;
ELSE IF SVAFSSX=2 THEN SV2_ONLY =2;
/*Reported any physically forced sex prior to age 18 (SV3_ONLY)*/
IF SV3TME>=1 & .<SV3FTA<18 THEN SV3_ONLY = 1;
ELSE IF SV3TME>=1 &18<=SV3FTA<98 THEN SV3_ONLY = 2;
ELSE IF SV3TME>=1 & (SV3FTA=99 |SV3FTA=. |SV3FTA=98) & (.<SV3AGE<18) THEN SV3_ONLY =1;
ELSE IF SV3TME>=1 & (SV3FTA=99 |SV3FTA=. |SV3FTA=98) & (SV3AGE=99 | SV3AGE=. | SV3AGE=98)
THEN SV3_ONLY = .;
ELSE IF SVPFSSX=2 THEN SV3_ONLY =2;
/*Reported any pressured sex prior to age 18 (SV4_ONLY)*/
IF SV4TME>=1 & .<SV4FTA<18 THEN SV4_ONLY = 1;
ELSE IF SV4TME>=1 &18<=SV4FTA<98 THEN SV4_ONLY = 2;
ELSE IF SV4TME>=1 & (SV4FTA=99 | SV4FTA =. | SV4FTA =98) & (.<SV4AGE<18) THEN SV4_ONLY =1;
ELSE IF SV4TME>=1 & (SV4FTA=99 | SV4FTA =. | SV4FTA =98) & (SV4AGE=99 | SV4AGE =. | SV4AGE
=98) THEN SV4_ONLY = .;
ELSE IF SVPRSSX=2 THEN SV4_ONLY =2;
/*Reported any sexual violence in childhood (i.e., before age 18)(SV18)*/
IF 18<=Q2<=24 THEN DO; /* SV18 only includes 18-24 year-olds */
IF SV1_ONLY=1| SV2_ONLY=1| SV3_ONLY=1| SV4_ONLY=1 THEN SV18 =1;
ELSE IF SV1_ONLY=. & SV2_ONLY=. & SV3_ONLY=. & SV4_ONLY=. THEN SV18 = .;
ELSE IF SV1_ONLY in (2,.) & SV2_ONLY in (2,.) & SV3_ONLY in (2,.) & SV4_ONLY in (2,.)
THEN SV18 = 2;
END;
```

Description of the SAS code for childhood sexual violence indicator:

The above SAS code can be read as follows: if the 18–24-year-old participant experienced any unwanted sexual touching before the age of 18, attempted sex before the age of 18, physically forced sex before the age of 18, or pressured sex before the age of 18, then the participant is considered to have experienced childhood sexual violence. Please see Appendix for corresponding R and STATA codes.

C. Any sexual violence in the past 12 months indicator

The numerator for this indicator is the number of 13–17-year-olds who experienced any form of sexual violence in the past 12 months. The denominator is the total number of 13–17-year-old participants.

Items of the VACS questionnaire that are used to measure any sexual violence in the past 12 months

Form of SV	Question Number	Question
Unwanted sexual touching	SVTCH	Has anyone ever touched you in a sexual way against your will, but did not try and force you to have sex?
	SV1TME	How many times in your life has this happened?
	SV112M	Now think about the last time this happened. Did this happen to you within the past 12 months?
	SV1FT12	First time: Did this happen to you within the past 12 months?
Unwanted attempted sex	SVAFSSX	Has a current or ex-partner ever tried to make you have sex against your will but the sex did not happen?
	SVAFSANY	Has anyone (else)ever tried to make you have sex against your will but the sex did not happen?
	SV2TME	How many times in your life has anyone tried to make you have sex against your will but the sex did not happen?
	SV212M	Now think about the last time this happened. Did this happen to you within the past 12 months?
Physically forced sex	SV2FT12	First time: Did this happen to you within the past 12 months?
	SVPFSSX	Has a current or ex partner ever physically forced you to have sex against your will?
	SVPFSANY	Has anyone (else)ever physically forced you to have sex against your will?
	SV3TME	How many times in your life have you been physically forced to have sex?
Pressured sex	SV312M	Now think about the last time this happened. Did this happen to you within the past 12 months?
	SV3FT12	First time: Did this happen to you within the past 12 months?
	SVPRSSX	Has a current or ex partner ever pressured you to have sex against your will, such as through harassment or threats, and the sex did happen?
	SVPRSANY	Has anyone (else)ever pressured you to have sex against your will, such as through harassment or threats, and the sex did happen?
Pressured sex	SV4TME	How many times in your life has someone pressured you to have sex against your will, such as through harassment or threats, and the sex happened?
	SV412M	Now think about the last time this happened. Did this happen to you within the past 12 months?
	SV4FT12	First time: Did this happen to you within the past 12 months?

SAS code for any sexual violence in the past 12 months indicator:

```
/*Reported any unwanted sexual touching in the last 12 months (SV12MTH1)*/  
IF SV1TME>=1 & (SV112M =1 | SV1FT12 =1) THEN SV12MTH1=1;  
ELSE IF SV1TME>=1 & (SV112M in (99,,98) & SV1FT12 in (99,,98)) THEN SV12MTH1= . ;  
ELSE IF SV1TME>=1 & (SV112M in (2,.) | SV1FT12 in (2,.) ) THEN SV12MTH1=2;  
ELSE IF SVTCH =2 THEN SV12MTH1=2;  
/*Reported any unwanted attempted sex in the last 12 months (SV12MTH2)*/  
IF SV2TME>=1 & (SV212M =1 | SV2FT12 =1) THEN SV12MTH2 =1;  
ELSE IF SV2TME>=1 & (SV212M in (99,,98) & SV2FT12 in (99,,98)) THEN SV12MTH2 = . ;  
ELSE IF SV2TME>=1 & (SV212M in (2,.) | SV2FT12 in (2,.) ) THEN SV12MTH2 =2;  
ELSE IF SVAFSSX=2 THEN SV12MTH2 =2;  
/*Reported any physically forced sex in the last 12 months (SV12MTH3)*/  
IF SV3TME>=1 & (SV312M =1 | SV3FT12 =1) THEN SV12MTH3 =1;  
ELSE IF SV3TME>=1 & (SV312M in (99,,98) & SV3FT12 in (99,,98)) THEN SV12MTH3 = . ;  
ELSE IF SV3TME>=1 & (SV312M in (2,.) | SV3FT12 in (2,.) ) THEN SV12MTH3=2;  
ELSE IF SVPFSSX=2 THEN SV12MTH3 =2;  
/*Reported any pressured sex in the last 12 months (SV12MTH4)*/  
IF SV4TME>=1 & (SV412M =1 | SV4FT12 =1) THEN SV12MTH4 =1;  
ELSE IF SV4TME>=1 & (SV412M in (99,,98) & SV4FT12 in (99,,98)) THEN SV12MTH4 = . ;  
ELSE IF SV4TME>=1 & (SV412M in (2,.) | SV4FT12 in (2,.) ) THEN SV12MTH4 =2;  
ELSE IF SVPRSSX=2 THEN SV12MTH4 =2;  
/*Reported any sexual violence in the last 12 months (SV12MTH)*/  
IF 13<=Q2<=17 THEN DO; /* SV12MTH only includes 13-17 year-olds */  
IF SV12MTH1=1| SV12MTH2 =1 | SV12MTH3 =1 | SV12MTH4 =1 THEN SV12MTH =1;  
ELSE IF SV12MTH1= . & SV12MTH2 = . & SV12MTH3 = . & SV12MTH4 = . THEN SV12MTH = . ;  
ELSE IF SV12MTH1 in (2,.) & SV12MTH2 in (2,.) & SV12MTH3 in (2,.) & SV12MTH4 in (2,.)  
THEN SV12MTH =2;  
END;
```

Description of the SAS code for any sexual violence in past 12 months indicator:

The above SAS code can be read as: if the 13–17-year-old participant experienced unwanted sexual touching in the past 12 months, attempted sex in the past 12 months, physically forced sex in the past 12 months, or pressured sex in the past 12 months, then the participant is considered to have experienced any sexual violence in the past 12 months. Please see Appendix for corresponding R and STATA codes.

Appendix

STATA and R codes

```
# R code for lifetime sexual violence indicators

#Reported any lifetime unwanted sexual touching
Tanzania_PUD%<>%
mutate(
  SV1LT = case_when(
    (SVTCH ==99 | SVTCH ==98 | is.na(Tanzania_PUD$SVTCH)) ~ NA_real_,
    SVTCH==1 ~ 1, TRUE ~ 2
  )
)

#Reported any lifetime unwanted attempted sex
Tanzania_PUD%<>%
mutate(
  SV2LT = case_when(
    (SVAFSSX==99 | SVAFSSX==98 | is.na(Tanzania_PUD$SVAFSSX )) &
    (SVAFSANY==99 | SVAFSANY==98 | is.na(Tanzania_PUD$SVAFSANY ))~ NA_real_,
    SVAFSSX ==1 | SVAFSANY ==1 ~ 1, TRUE ~ 2
  )
)

#Reported any lifetime physically forced sex
Tanzania_PUD%<>%
mutate(
  SV3LT = case_when(
    (SVPFSSX==99 | SVAFSSX==98 | is.na(Tanzania_PUD$SVAFSSX )) &
    (SVPFSANY==99 | SVPFSANY==98 | is.na(Tanzania_PUD$SVPFSANY))~ NA_real_,
    SVPFSANY ==1 | SVAFSSX ==1 ~ 1, TRUE ~ 2
  )
)

#Reported any lifetime pressured sex
Tanzania_PUD%<>%
mutate(
  SV4LT = case_when(
    (SVPRSSX==99 | SVPRSSX==98 | is.na(Tanzania_PUD$SVPRSSX )) &
    (SVPRSANY==99 | SVPRSANY==98 | is.na(Tanzania_PUD$SVPRSANY))~ NA_real_,
    SVPFSANY ==1 | SVAFSSX ==1 ~ 1, TRUE ~ 2
  )
)

#Reported any lifetime sexual violence
Tanzania_PUD %<>%
mutate(
  SAB = case_when(
    SV1LT=1 | SV2LT=1 | SV3LT=1 | SV4LT=1 ~ 1, # YES
    (is.na(Tanzania_PUD$SV1LT)) & (is.na(Tanzania_PUD$SV2LT)) &
    (is.na(Tanzania_PUD$SV3LT))&(is.na(Tanzania_PUD$SV4LT)) ~ NA_real_,# MISSING
    (SV1LT ==2 | is.na(Tanzania_PUD$SV1LT)) &
    (SV2LT ==2 | is.na(Tanzania_PUD$SV2LT)) &
    (SV3LT ==2 | is.na(Tanzania_PUD$SV3LT))&
    (SV4LT ==2 | is.na(Tanzania_PUD$SV4LT)) ~ 2, # NO
    TRUE ~ 2
  )
)
```

Note: Tanzania_PUD is the public use dataset

```
*STATA code for lifetime sexual violence indicators
```

```
/*Reported any lifetime unwanted sexual touching*/
```

```
generate SV1LT =. if SVTCH>=98
replace SV1LT = 1 if SVTCH == 1
replace SV1LT = 2 if SVTCH == 2
```

```
/*Reported any lifetime unwanted attempted sex */
```

```
generate SV2LT =. if SVAFSSX>=98 & SVAFSANY>=98
replace SV2LT = 1 if SVAFSSX == 1 | SVAFSANY==1
replace SV2LT = 2 if SVAFSSX == 2 | SVAFSANY==2
```

```
/*Reported any lifetime physically forced sex*/
```

```
generate SV3LT =. if SVPFSSX>=98 & SVPFSANY>=98
replace SV3LT = 1 if SVPFSSX == 1 | SVPFSANY==1
replace SV3LT = 2 if SVPFSSX == 2 | SVPFSANY==2
```

```
/*Reported any lifetime pressured sex*/
```

```
generate SV4LT =. if SVPRSSX>=98 & SVPRSANY>=98
replace SV4LT = 1 if SVPRSSX== 1 | SVPRSANY==1
replace SV4LT = 2 if SVPRSSX== 2 | SVPRSANY==2
```

```
/*Reported any lifetime sexual violence*/
```

```
generate SAB =1 if SV1LT==1 | SV2LT==1 |SV3LT==1 |SV4LT==1 /*YES*/
replace SAB = . if SV1LT==. & SV2LT==. & SV3LT==. & SV4LT==./*MISSING*/
replace SAB = 2 if SV1LT>=2 & SV2LT>=2 &
SV3LT>=2 & SV4LT>=2 /*NO*/
```

```
#R code for calculating childhood sexual violence indicator
```

```
##Reported any unwanted sexual touching prior to age 18 (SV1_ONLY)*
```

```
Tanzania_PUD %<>%
```

```
mutate(
```

```
SV1_ONLY = case_when(
  SV1TME>=1 & SV1FTA<18 ~ 1,
  SV1TME>=1 & (18<= SV1FTA<98) ~ 2,
  SV1TME>=1 & (SV1FTA==99 | (is.na(Tanzania_PUD$SV1FTA) | SV1FTA==98)) & SV1FTA<18 ~ 1,
  SV1TME>=1 & (SV1FTA==99 | (is.na(Tanzania_PUD$SV1FTA) | SV1FTA==98)) &
  (is.na(Tanzania_PUD$SV1AGE) | SV1AGE==99 | SV1AGE==98) ~ NA_real_,
  SVTCH==2~ 2 ,
  TRUE ~ 2
)
```

```
##Reported any unwanted attempted sex prior to age 18 (SV2_ONLY)*
```

```
Tanzania_PUD %<>%
```

```
mutate(
```

```
SV2_ONLY = case_when(
  SV2TME>=1 & SV2FTA<18 ~ 1,
  SV2TME>=1 & (18<= SV2FTA<98) ~ 2,
  SV2TME>=1 & (SV2FTA==99 | (is.na(Tanzania_PUD$SV2FTA) | SV2FTA==98)) & SV2FTA<18 ~ 1,
  SV2TME>=1 & (SV2FTA==99 | (is.na(Tanzania_PUD$SV2FTA) | SV2FTA==98)) &
  (is.na(Tanzania_PUD$SV2AGE) | SV2AGE==99 | SV2AGE==98) ~ NA_real_,
  SVAFSSX==2~ 2,
  TRUE ~ 2
)
```

```

##Reported any physically forced sex prior to age 18 (SV3_ONLY)*

Tanzania_PUD %<>%
mutate(
  SV3_ONLY = case_when(
    SV3TME>=1 & SV3FTA<18 ~ 1,
    SV3TME>=1 & (18<= SV3FTA<98) ~ 2,
    SV3TME>=1 & (SV3FTA==99 | (is.na(Tanzania_PUD$SV3FTA) | SV3FTA==98)) & SV3FTA<18 ~ 1,
    SV3TME>=1 & (SV3FTA==99 | (is.na(Tanzania_PUD$SV3FTA) | SV3FTA==98)) &
      (is.na(Tanzania_PUD$SV3AGE) | SV3AGE==99 | SV3AGE==98) ~ NA_real_,
    SVPFSSX==2~ 2,
    TRUE ~ 2
  )
)

##Reported any pressured sex prior to age 18 (SV4_ONLY)*

Tanzania_PUD %<>%
mutate(
  SV4_ONLY = case_when(
    SV4TME>=1 & SV4FTA<18 ~ 1,
    SV4TME>=1 & (18<= SV4FTA<98) ~ 2,
    SV4TME>=1 & (SV4FTA==99 | (is.na(Tanzania_PUD$SV4FTA) | SV4FTA==98)) & SV4FTA<18 ~ 1,
    SV4TME>=1 & (SV4FTA==99 | (is.na(Tanzania_PUD$SV4FTA) | SV4FTA==98)) &
      (is.na(Tanzania_PUD$SV4AGE) | SV4AGE==99 | SV4AGE==98) ~ NA_real_,
    SVPRSSX==2~ 2,
    TRUE ~ 2
  )
)

##Reported any sexual violence in childhood (i.e before age 18)(SV18)*
Tanzania_PUD %<>%
mutate(
  SV18 = case_when(
    SV1_ONLY==1 | SV2_ONLY==1 | SV3_ONLY==1 | SV4_ONLY==1 ~ 1,
    SV4TME>=1 & (18<= SV4FTA<98) ~ 2,
    is.na(Tanzania_PUD$SV1_ONLY) | is.na(Tanzania_PUD$SV2_ONLY) |
      is.na(Tanzania_PUD$SV3_ONLY) | is.na(Tanzania_PUD$SV4_ONLY) | ~ NA_real_,
    (is.na(Tanzania_PUD$SV1_ONLY) | SV1_ONLY==2) & (is.na(Tanzania_PUD$SV2_ONLY) |
      SV2_ONLY==2) &
      (is.na(Tanzania_PUD$SV3_ONLY) | SV3_ONLY==2) & (is.na(Tanzania_PUD$SV4_ONLY) |
      SV4_ONLY==2) ~ 2,
    TRUE ~ 2
  )
)

```

* STATA code for calculating childhood sexual violence indicator

```

*Reported any unwanted sexual touching prior to age 18 (SV1_ONLY)*
generate SV1_ONLY =1 if SV1TME>=1 & SV1FTA< 18
replace SV1_ONLY = 2 if SV1TME>=1 & inrange(SV1FTA,18,97)
replace SV1_ONLY = 1 if SV1TME>=1 & SV1FTA>=98 & SV1AGE<18
replace SV1_ONLY = . if SV1TME>=1 & SV1FTA>=98 & SV1AGE>=98
replace SV1_ONLY = 2 if SVTCH==2

/*Reported any unwanted attempted sex prior to age 18 (SV2_ONLY)*/
generate SV2_ONLY =1 if SV2TME>=1 & SV2FTA< 18

```

```

replace SV2_ONLY = 2 if SV2TME>=1 & inrange(SV2FTA,18,97)
replace SV2_ONLY = 1 if SV2TME>=1 & SV2FTA>=98 & SV2AGE<18
replace SV2_ONLY = . if SV2TME>=1 & SV2FTA>=98 & SV2AGE>=98
replace SV2_ONLY = 2 if SVAFSSX==2

/*Reported any physically forced sex prior to age 18 (SV3_ONLY)*/
generate SV3_ONLY =1 if SV3TME>=1 & SV3FTA < 18
replace SV3_ONLY = 2 if SV3TME>=1 & inrange(SV3FTA,18,97)
replace SV3_ONLY = 1 if SV3TME>=1 & SV3FTA>=98 & SV3AGE<18
replace SV3_ONLY = . if SV3TME>=1 & SV3FTA>=98 & SV3AGE>=98
replace SV3_ONLY = 2 if SVPFSSX==2

/*Reported any pressured sex prior to age 18 (SV4_ONLY)*/
generate SV4_ONLY =1 if SV4TME>=1 & SV4FTA < 18
replace SV4_ONLY = 2 if SV4TME>=1 & inrange(SV4FTA,18,97)
replace SV4_ONLY = 1 if SV4TME>=1 & SV4FTA>=98 & SV4AGE<18
replace SV4_ONLY = . if SV4TME>=1 & SV4FTA>=98 & SV4AGE>=98
replace SV4_ONLY = 2 if SVPRSSX==2

/*Reported any sexual violence in childhood (i.e before age 18)(SV18)*/
generate SV18 =1 if SV4TME>=1 & SV4FTA < 18
replace SV18 = 1 if SV1_ONLY==1 | SV2_ONLY==1 | SV3_ONLY==1 | SV4_ONLY==1
replace SV18 = . if SV1_ONLY>=. | SV2_ONLY>=. | SV3_ONLY>=. | SV4_ONLY>=.
replace SV18 = 2 if SV1_ONLY>=2 & SV2_ONLY>=2 & SV3_ONLY>=2 &
SV4_ONLY>=2

# R code for any sexual violence in the past 12 months indicator
## Reported any unwanted sexual touching in the last 12 months (SV12MTH1)*

Tanzania_PUD %<>%
mutate(
  SV12MTH1 = case_when(
    SV1TME >=1 & (SV112M ==1 | SV1FT12 ==1) ~ 1, #SV1FT12=SV1FT
    SV1TME>=1 & (SV112M==99 | is.na(Tanzania_PUD$SV112M) | SV112M==98) &
      (SV1FT12 ==99 | is.na(Tanzania_PUD$SV1FT12 ) | SV1FT12 ==98)~ NA_real_,
    SV1TME>=1 & (SV112M==2 | is.na(Tanzania_PUD$SV112M)) &
      (SV1FT12 ==2 | is.na(Tanzania_PUD$SV1FT12 )) ~ 2,
    SVTCH ==2 ~ 2,
    TRUE ~ NA_real_
  )
)

## Reported any unwanted attempted sex in the last 12 months (SV12MTH2)*
Tanzania_PUD %<>%
mutate(
  SV12MTH2 = case_when(
    SV2TME >=1 & (SV212M ==1 | SV2FT12 ==1) ~ 1, #SV2FT12=SV2FT
    SV2TME>=1 & (SV212M==99 | is.na(Tanzania_PUD$SV212M) | SV212M==98) &
      (SV2FT12 ==99 | is.na(Tanzania_PUD$SV2FT12 ) | SV2FT12 ==98)~ NA_real_,
    SV2TME>=1 & (SV212M==2 | is.na(Tanzania_PUD$SV212M)) &
      (SV2FT12 ==2 | is.na(Tanzania_PUD$SV2FT12 )) ~ 2,
    SVAFSSX ==2 ~ 2,
    TRUE ~ NA_real_
  )
)

```

```

/* Reported any physically forced sex in the last 12 months (SV12MTH3)*/
Tanzania_PUD %<>%
mutate(
  SV12MTH3 = case_when(
    SV3TME >=1 & (SV312M ==1 | SV3FT12 ==1) ~ 1, #SV3FT12=SV3FT
    SV3TME>=1 & (SV312M==99 | is.na(Tanzania_PUD$SV312M) | SV312M==98) &
      (SV3FT12 ==99 | is.na(Tanzania_PUD$SV3FT12 ) | SV3FT12 ==98)~ NA_real_,
    SV3TME>=1 & (SV312M==2 | is.na(Tanzania_PUD$SV312M)) &
      (SV3FT12 ==2 | is.na(Tanzania_PUD$SV3FT12 )) ~ 2,
    SVPFSSX ==2 ~2,
    TRUE ~ NA_real_
  )
)

/* Reported any pressured sex in the last 12 months (SV12MTH4)*/
Tanzania_PUD %<>%
mutate(
  SV12MTH4 = case_when(
    SV4TME >=1 & (SV412M ==1 | SV4FT12 ==1) ~ 1,
    SV4TME>=1 & (SV412M==99 | is.na(Tanzania_PUD$SV412M) | SV412M==98) &
      (SV4FT12 ==99 | is.na(Tanzania_PUD$SV4FT12 ) | SV4FT12 ==98)~ NA_real_,
    SV4TME>=1 & (SV412M==2 | is.na(Tanzania_PUD$SV412M)) &
      (SV4FT12 ==2 | is.na(Tanzania_PUD$SV4FT12 )) ~ 2,
    SVPRSSX ==2 ~2,
    TRUE ~ NA_real_
  )
)

/*Reported any sexual abuse in the last 12 months (SV12MTH)*/
Tanzania_PUD %<>%
mutate(
  SV12MTH = case_when(
    SV12MTH1==1 | SV12MTH2==1 | SV12MTH3==1 | SV12MTH4==1 ~ 1,
    is.na(Tanzania_PUD$SV12MTH1) | is.na(Tanzania_PUD$SV12MTH2) |
      is.na(Tanzania_PUD$SV12MTH3) | is.na(Tanzania_PUD$SV12MTH4) | ~ NA_real_,
    (is.na(Tanzania_PUD$SV12MTH1) | SV12MTH1==2) &
      (is.na(Tanzania_PUD$SV12MTH2) | SV12MTH2==2) &
      (is.na(Tanzania_PUD$SV12MTH3) | SV12MTH3==2) &
      (is.na(Tanzania_PUD$SV12MTH4) | SV12MTH4==2) ~ 2,
    TRUE ~ 2
  )
)

```

**STATA code for any sexual violence in the past 12 months indicator*

```

/* Reported any unwanted sexual touching in the last 12 months (SV12MTH1)*/
generate SV12MTH1 =1 if SV1TME>=1 & (SV112M ==1 | SV1FT12 ==1)
replace SV12MTH1 = . if SV1TME>=1 & (SV112M>=98 | SV1FT12>=98)
replace SV12MTH1 = 2 if SV1TME>=1 & (SV112M>=2 | SV1FT12>=2)
replace SV12MTH1 = 2 if SVTCH==2

/* Reported any unwanted attempted sex in the last 12 months (SV12MTH2)*/
generate SV12MTH2 =1 if SV2TME>=1 & (SV212M ==1 | SV2FT12 ==1)
replace SV12MTH2 = . if SV2TME>=1 & (SV212M>=98 | SV2FT12>=98)
replace SV12MTH2 = 2 if SV2TME>=1 & (SV212M>=2 | SV2FT12>=2)
replace SV12MTH2 = 2 if SVAFSSX==2

/* Reported any physically forced sex in the last 12 months (SV12MTH3)*/
generate SV12MTH3 =1 if SV3TME>=1 & (SV312M ==1 | SV3FT12 ==1)

```

```
replace SV12MTH3 = . if SV3TME>=1 & (SV312M>=98 | SV3FT12>=98)
replace SV12MTH3 = 2 if SV3TME>=1 & (SV312M>=2 | SV3FT12>=2)
replace SV12MTH3 = 2 if SVPFSSX==2

/* Reported any pressured sex in the last 12 months (SV12MTH4)*/
generate SV12MTH4 =1 if SV4TME>=1 & (SV412M ==1 | SV4FT12 ==1)
replace SV12MTH4 = . if SV4TME>=1 & SV412M>=98 | SV4FT12>=98)
replace SV12MTH4 = 2 if SV4TME>=1 & (SV412M>=2 | SV4FT12>=2)
replace SV12MTH4 = 2 if SVPRSSX==2

/*Reported any sexual abuse in the last 12 months (SV12MTH)*/
generate SV12MTH = 1 if SV12MTH1==1 | SV12MTH2==1 | SV12MTH3==1 | SV12MTH4==1
replace SV12MTH = . if SV12MTH1>=. | SV12MTH2>=. | SV12MTH3>=. | SV12MTH4>=.
replace SV12MTH = 2 if SV12MTH1>=2 & SV12MTH2>=2 & SV12MTH3>=2 &
SV12MTH4>=2
```

Resources

- [CDC's Violence Against Children and Youth Surveys](#)
- [Sampling design and methodology of the Violence Against Children and Youth Surveys](#)
- [Violence Against Children Surveys - Country Reports](#)
- [WHO Consolidated guidelines on HIV testing services](#)