

ZIMPHIA 2015-2016

Data Use Manual Supplement



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Abbreviations

ART	Antiretroviral Therapy
ARV	Antiretroviral
CD4	CD4+ T-Cell
CI	Confidence Interval
CONSORT	Consolidated Standard of Reporting Trials
DHS	Demographic and Health Surveys
DNA	Deoxyribonucleic Acid
EA	Enumeration Area
EID	Early Infant Diagnosis
ID	Identification
LAg-EIA	Limiting-Antigen Avidity Enzyme Immunoassay
OVC	Orphans and Vulnerable Children
PCA	Principal Components Analysis
PCR	Polymerase Chain Reaction

I. Background

1. What is ZIMPHIA 2015-2016?

The Zimbabwe 2015–2016 Population-based HIV Impact Assessment (ZIMPHIA 2015–2016) is a cross-sectional household-based survey conducted in Zimbabwe. ZIMPHIA 2015–2016 is part of the Population-based HIV Impact Assessments (PHIA) Project, a series of population-based surveys designed to assess the burden of HIV disease and impact of the health sector response to national HIV epidemics. PHIA surveys are being conducted in 14 countries.

2. Purpose of the ZIMPHIA 2015-2016 Data Use Manual Supplement

The purpose of the **ZIMPHIA 2015–2016 Data Use Manual Supplement** (hereafter, **Manual Supplement**) is to accompany the **PHIA Data Use Manual**, which contains information on PHIA data generally applicable to all PHIA surveys, including an overview of the PHIA Project, PHIA survey design and sampling, measures, and a guide for users on how to access and use PHIA data. This **Manual Supplement** contains ZIMPHIA 2015–2016 survey specifications, including survey-specific eligibility criteria, sampling approaches and measures. A summary of ZIMPHIA 2015–2016 findings can be found in the [ZIMPHIA 2015–2016 Summary Sheet](#).

3. Other documentation and resources

In addition to this **Manual Supplement**, users should refer to the **PHIA Data Use Manual** for general information on PHIA data, as well as other survey-specific documentation including:

- **Survey Questionnaires:** Three questionnaires are provided, the ZIMPHIA 2015–2016 household, adult and adolescent questionnaires. These questionnaires illustrate the questionnaire's structure, including the order that the questions were asked, each question's wording, variable names and labels, value coding and labels, and skip patterns.
- **Codebooks:** Codebooks are provided for each dataset, indicating all variables contained within. These codebooks document each variable's name, category (i.e., the questionnaire module or source data of the variable), label (i.e., question wording or other label), type (e.g., integer, select one, select multiple, free text, and date/time) and coding values and labels.
- **Variable Frequencies:** Variable frequencies are provided, which contain frequencies of all categorical variables in each dataset.
- **CONSORT Diagrams:** CONSORT (CONsolidated Standard Of Reporting Trials) style diagrams define key analytic variables that combine sets of source variables. A list of CONSORT Diagrams is provided at the end of this **Manual Supplement**.
- **ZIMPHIA 2015–2016 Sampling and Weighting Technical Report:** Technical details of ZIMPHIA 2015–2016 sampling and weighting procedures are provided in deeper detail.
- **ZIMPHIA 2015–2016 Summary Sheet and Reports:** ZIMPHIA 2015–2016 reports have been published and provided on the website "[Resources](#)" page. The [ZIMPHIA 2015-2016 Final Report](#) contains detailed descriptions of survey data collection procedures, establishing participation by the household head, procedures for individual consent, maintaining confidentiality during data collection and testing procedures, procedures for returning/obtaining test results, and referral for or direct linkage to services are included.

II. ZIMPHIA 2015–2016 survey specifications

1. Survey design and data collection

Survey design characteristics	Description
Survey design	
Data source for survey weighting ¹	2012 Zimbabwe Census
Sampling stratum	Province
Primary sampling unit	Census Enumeration Areas (EA)
Urban/rural categorization	Urban/rural
Survey administration	
Data collection dates	October 2015 – August 2016
Languages	English, Shona, Ndebele
Sample size ²	
Number of selected EAs	500
Household respondents	11,717
Individual interviews	
Adults (15+ years)	24,660
Adolescents (10-14 years)	2,375
Children (0-9 years) ³	6,121
Biomarker test participants	
Adults (15+ years)	22,501
Adolescents (10-14 years)	2,246
Children (0-9 years)	4,786

¹ See [ZIMPHIA 2015–2016 Sampling and Weighting Technical Report](#) for more details on survey weighting approach

² See [ZIMPHIA 2015–2016 Final Report](#) for response rates.

³ Individual interview data for children (0-9 years) is provided by the child's parent/guardian.

Exceptions to the general PHIA design

ZIMPHIA 2015-2016, MPHIA 2015-2016, and ZAMPHIA 2016 published a first report in addition to the final report. After these three surveys, general PHIA reporting was streamlined to include a summary sheet and final report.

For ZIMPHIA 2015-2016, there was a tablet programming issue where the sex provided by the household head in the roster was used instead of the confirmed gender for tablet routing. This resulted in small number of men being administered questions intended for women, and a small number of women being administered questions intended for men. During data cleaning, the questions administered to someone of the incorrect gender were set to missing. Men who self-reported HIV positive and on treatment in questions asked as a result of information provided in the reproductive module were considered aware and on ART in the analytic variables.

ZIMPHIA 2015-2016 contained a CASI (Computer Automated Self Interview) module in which a subsample of respondents entered responses to a selected set of questions that were also asked in the main interview. The CASI data is not used for survey estimates in the [ZIMPHIA 2015-2016 Final Report](#).

2. Survey questionnaires

In participating households, a household questionnaire is administered to the household head. Then, individual questionnaires are administered to eligible and consenting individuals in the household. Adults (15+ years) complete an adult questionnaire, and adolescents (10-14 years) complete an adolescent questionnaire. Adults also provide data on their children (0-14 years) as part of the “children” module of the adult questionnaire. Emancipated minors (defined by law in Zimbabwe as 15 years old and either married, pregnant or have a child or is free from any legally competent representative) may complete the household questionnaire as the household head. As for other participants, their age determined whether they complete the adult questionnaire (15+) or not. Modules included in each questionnaire and their associated eligibility criteria are listed in the table below. The content and order of each module may differ between ZIMPHIA 2015–2016 and other PHIA surveys. Users can refer to each PHIA survey’s **Survey Questionnaires, Codebooks** and **Manual Supplements**.

Questionnaire module	Eligibility criteria
<i>Household questionnaire</i>	Sample of households within selected EAs
Household roster	
Support for orphans and vulnerable children (OVC)	
Household spouses/live-in partners	
Deaths	
Household characteristics	
Economic support	
<i>Individual questionnaire – adults (15+ years)</i>	All rostered and consenting adults
Respondent background	
Marriage	
Reproductive history	All women
Children	Parents or guardians of children or adolescents (0-14 years) in the household provide information pertaining to the child
Male circumcision	All men
Sexual activity	
HIV knowledge and attitudes	50% of households (1 male and 1 female adult per household selected)
HIV testing history	
HIV status, care and treatment	All self-reporting HIV-positive adults
Tuberculosis and other health issues	
Alcohol use	
Gender norms	
Violence	One woman age 15-59 in the household
Computer-Assisted Self-Interview (CASI) ²	Sub-sample of 2,000 males and 2,000 females
<i>Individual questionnaire – adolescents (10-14 years)</i>	All rostered ¹ and assenting adolescents in every other household (50%)
Sociodemographic characteristics	
HIV knowledge	All adolescents
HIV prevention interventions	
Sexual behavior	
HIV risk perceptions	
Social norms, intention to abstain, self-efficacy and assertiveness	
HIV testing	
Alcohol and drugs	
HIV stigma	
Parental support	

Questionnaire module	Eligibility criteria
Violence	All eligible female adolescents 12-14 in child flagged households

¹ Household members are eligible to be rostered if they were reported by the household head to have slept in the household the night before the interview.

² A subset of 20 questions from the survey questionnaire were re-administered via CASI following the interviewer-administered questionnaire. Potentially sensitive questions were selected including: participant background, HIV attitudes, alcohol use, sexual behavior, HIV testing, treatment history, condom use, commercial sex and questionnaire delivery method preference. CASI was administered to a random subsample of 2,000 males and 2,000 females aged 15+.

Data Cleaning

Best practices in questionnaire design and interviewer training are followed in the PHIA's to minimize the amount of incorrect or out of range data entered into the questionnaire. With the Open Data Kit software, there are technical limitations to the number of constraints that can be programmed. The following data cleaning rules were applied to correct for known data issues:

- As a result of the tablet routing issue described in Section II, responses to gender-specific survey questions were blanked out for the respondents who answered them for the incorrect gender. For example, responses to the male circumcision module were set to blank for the few women who received them.
- When a month, day, and year provided resulted in a date that does not exist (e.g., February 31st) the date variables were blanked out.
- Dates for events such as the respondents last HIV test or first-time taking ART that occurred after the survey start date were set to blank.
- Men with a marital status of married or living together (curmar = 1, 2) who reported no wives/partners (numwif = 0) had number of wives/partners set to blank.
- Age at first sex and age at marriage of less than five were set to blank.
- Women who reported one or more pregnancies (pregnum > 0) that also reported never having sex (firstsexagedk=96) were considered to have had sex (sexever = 1) with age at first sex "out of range" (firstsexagedk = -7).
- Women who delivered a child within the past 3 months and reported no sexual partners in the past year were considered to have had sex in the past 12 months (sex12months = 1), with number of partners in the past 12 months "out of range" (part12monum = -7).
- Women who reported giving birth to more than ten children in the past three years (childa2012 > 10), had childa2012 set to -7. Reports of more than 40 live births in one's lifetime were considered out of range (liveb = -7).
- Children with age in months greater than or equal to 60 (5 years) had their age in months (agem) set to missing. Users should use age in years (age) for these individuals.

The following values were also considered erroneous or out of range and set to missing.

Erroneous values cleaned from ZIMPHIA 2015-2016

Dataset(s)	Variable	Value(s)
Household	diedagey1	888, 55555, 88888
Household	dieddatey1	1950, 1998, 2004, 2010, 2011, 2012
Household	dieddatey2	2006, 2012

Erroneous values cleaned from ZIMPHIA 2015-2016

Dataset(s)	Variable	Value(s)
Adult individual	awy12mont	580, 730
Adult individual	birthyr1	1989, 1993, 2002, 2005, 2006, 2007, 2008, 2010, 2011
Adult individual	birthyr2*	2009, 2011, 2012
Adult individual	birthyr3*	2010
Adult individual	birthyr4*	2006
Adult individual	birthyr5*	2002
Adult individual	birthyr6*	2000
Adult individual	cshodsex	0, 88888
Adult individual	husnwif	0
Adult individual	partage1	0, 222, 3, 888888
Adult individual	partage2	0, 218
Adult individual	partage3	0
Adult individual	schcom	0, 1961, 2007, 2013, 2015, 54, 97
Child individual	adcurgrd	88888
Child individual	adlstyrgrd	0
Child individual	ch_birthyr	2002, 2005, 2006, 2007, 2008, 2010, 2011
Child individual	ch_kidclass	83
Child individual	ch_kidclasscmplt*	88888
Child individual	ch_kidhivtesty	1998, 2000

* Variable ultimately redacted due to small counts.

3. Biomarker testing

In ZIMPHIA 2015–2016, biomarker testing is offered to all rostered and consenting adults (15+ years). In 50% of households (every other household), it is also offered to all children (0-14 years) whose guardians provided consent. Eligibility criteria for receiving tests for specific biomarkers are provided in the table below.

Biomarker	Eligibility criteria
HIV serostatus ¹	All participants
Recency of HIV infection ²	All HIV+ individuals 18 months or older
CD4+ cell count	All HIV+ and 5% of HIV- individuals
HIV RNA viral load	All HIV+ individuals
Antiretroviral (ARV) drug presence	All HIV+ individuals
ARV drug resistance ³	All HIV+ individuals with recent infection
Syphilis antibody	Individuals age 15+ years
Height and weight	Children 0-5 years: All HIV+ and 5% of HIV- children

¹ See HIV testing algorithm below.

² Recency of HIV infection is determined via a combination of Limiting Antigen Enzyme (LAG-Avidity) Immunoassay, viral load and ARV results. See “New HIV infections and annual HIV incidence” under *Section IV. Guide to Analysis* in the **PHIA Data Use Manual**.

³ ARV drug resistance data have been reported in some **PHIA Publications**, but are not currently available for download. These data may be available with a future release.

ZIMPHIA 2015–2016 HIV testing algorithm

For participants 18 months of age or over, initial household-based HIV testing was performed with the national HIV testing algorithm using three rapid HIV tests. Individuals with a nonreactive result on an initial rapid HIV screening test (Alere Determine™ HIV-1/2 Ag/Ab) were classified as HIV-negative. Then, individuals with a reactive screening test underwent confirmatory testing using the First Response HIV 1-2.0 rapid HIV test (StatPak). Individuals who then had a nonreactive result were tested with CHEMBIO Stat Pak. Individuals with reactive results on the first two tests were classified as HIV-positive. Individuals with discordant results on the first two tests were classified using results from the third CHEMBIO test. Infants under 18 months of age were only tested using the screening test (Determine) in the household.

All HIV positives identified in the field received confirmatory testing in satellite laboratory using the BioRad Geenius™ HIV 1/2 Supplemental Assay. Individuals who self-reported being HIV-positive but tested HIV-negative received additional laboratory-based HIV testing via DNA qualitative polymerase chain reaction (PCR) test (Roche COBAS Amplicor HIV-1 Monitor Test). Infants under 18 months of age whose screening test in the household was reactive were also tested for early infant HIV diagnosis (EID) via DNA PCR.

4. Data confidentiality

As noted in the *PHIA Data Use Manual*, various risk mitigation actions were used to protect the privacy and confidentiality of respondents in the public use data. Some of these actions apply to all PHIA surveys, while other actions are data-driven decisions that are motivated by various risk disclosure concerns in specific surveys. These concerns include small counts as a result of certain combinations of variables and values which may introduce individual disclosure risk concerns. This section outlines the variables that have been identified for disclosure risk remediation and the specific data action taken to address the risk concern.

The following date variables were redacted for all PHIA surveys prior to public release:

Date variables redacted for all PHIA surveys

Dataset(s)	Variable
Household	dieddated_01- dieddated04
Household	dieddatem1-dieddatem4
Adult individual	surveystday
Adult individual	birthday
Adult individual	birthmon
Child individual	surveystday
Child individual	ch_birthday
Child individual	ch_birthmon

Top-coding is the process of re-coding values above an upper bound to the value of the upper bound. Age for all respondents was top coded at 80. There was also top-coding to collapse small counts with nearby values, in which the data were re-coded so that the highest category contains at least 25 cases. Variables that underwent top-coding are listed below:

Variables that underwent top-coding, ZIMPHIA 2015-2016

Dataset(s)	Variable	Top-coding upper bound
Household	diedagey1-diedagey4	80
Household	roomsleep	6
Household	toiletsharenun	6 (coded 96)
Adult individual	agemar	40
Adult individual	arvsmisdays	4
Adult individual	awy12mont	50
Adult individual	childa2012	6
Adult individual	cmplsxage	30
Adult individual	cmplsxtimes	4
Adult individual	cshmdratyday	3
Adult individual	cshodrooca	3
Adult individual	cshodsex	30
Adult individual	csltrimhpsw	2
Adult individual	cspposwp	4
Adult individual	csxphmsc	2
Adult individual	firstsxage	30
Adult individual	frcsxage	30
Adult individual	frcsxtimes	3
Adult individual	hivtsnm	5
Adult individual	husnwif	4
Adult individual	mcage	40

Variables that underwent top-coding, ZIMPHIA 2015-2016

Dataset(s)	Variable	Top-coding upper bound
Adult individual	nnum	2
Adult individual	numwif	3
Adult individual	part12monum	6
Adult individual	partage1- partage3	80
Adult individual	pregnm	2
Adult individual	pregnum	11
Adult individual	prssxage	26
Adult individual	prssxtimes	2
Adult individual	schcom	14
Adult individual	sptgrfreq	4
Adult individual	touchage	26
Adult individual	touchtimes	4
Adult individual	vlnfrstage	30
Adult individual	wifliveew	2
Adult individual	childarvdurnumw1	72
Adult individual	childbrstfddurnumw1	96
Adult individual	childfoodagem1	12
Adult individual	childscotrimdurnumw1	52
Adult individual	chtsthivagem1	36
Adult individual	partfirstsxtimed1- partfirstsxtimed3	1095
Adult individual	age	80
Adult biomarker	age	80
Child individual	adcurgrd	8
Child individual	adlstyrgrd	8
Child individual	admnonrdrk	1
Child individual	ch_kidclass	9
Child individual	momhivtsnm	5
Child individual	mompregnm	2
Child individual	mompregnum	11
Child individual	ch_childarvdurw	72
Child individual	ch_childbrstfddurw	96
Child individual	ch_childfoodagem	12
Child individual	ch_childscotrimdurw	52
Child individual	ch_chtsthivagem	36

Bottom-coding is the process of re-coding values below a lower bound to the value of the lower bound. Bottom-coding was used to collapse small counts with nearby values, in which the data were re-coded so that the bottom coded value contains at least 25 cases. Variables that underwent bottom-coding are listed below:

Variables that underwent bottom-coding, ZIMPHIA 2015-2016

Dataset	Variable(s)	Bottom-coding lower bound
Household	diedagey1-diedagey4	5
Adult individual	agemar	14
Adult individual	arvfty	2004
Adult individual	cd4tty	2009
Adult individual	cervcntsy	2010

Variables that underwent bottom-coding, ZIMPHIA 2015-2016

Dataset	Variable(s)	Bottom-coding lower bound
Adult individual	cmplsxage	14
Adult individual	cshodsex	13
Adult individual	csmayhivtesty	2000
Adult individual	firstsxage	13
Adult individual	frcsxage	14
Adult individual	hivcfy	2003
Adult individual	hivcly	2013
Adult individual	hivtfposy	2003
Adult individual	hivtslsty	2000
Adult individual	hivtspocy	2012
Adult individual	hivtsprgy	2011
Adult individual	partage1- partage3	14
Adult individual	prssxage	14
Adult individual	tbdigay	2005
Adult individual	touchage	14
Adult individual	vlnrfrstage	14
Adult individual	childarvdurnumw1	4
Adult individual	childbrstfddurnumw1	24
Adult individual	childscotrimdurnumw1	6
Adult individual	chtsthivagem1	2
Adult individual	partfirstsxtimed1- partfirstsxtimed3	30
Child individual	adfrhvsx	2
Child individual	ch_kidarvsfirsty	2010
Child individual	ch_kidcd4lasty	2014
Child individual	ch_kidhivcarefirsty	2010
Child individual	ch_kidhivtesty	2006
Child individual	ch_childarvdurw	4
Child individual	ch_childbrstfddurw	24
Child individual	ch_childfoodagem	1
Child individual	ch_childscotrimdurw	6
Child individual	ch_chtsthivagem	2

The following variables and values were combined with the code for “other” due to small counts or percentages:

Variables and values collapsed in to the “other” classification, ZIMPHIA 2015-2016

Dataset(s)	Variable	Value(s)
Household	cookingfuel	4, 6, 7, 10, 11, 12, 95
Household	matexwalls	12, 25
Household	matfloor	32
Household	matroof	11, 23, 32
Household	watersource	51, 61, 71, 91
Household	wtrtreat_d	D
Household	wtrtreat_e	E
Household	wtrtreat_f	F
Adult individual	arvnrgp	1, 2, 8, 9

Variables and values collapsed in to the “other” classification, ZIMPHIA 2015-2016

Dataset(s)	Variable	Value(s)
Adult individual	arvsnottake	4, 5, 6, 7, 8, 9
Adult individual	avdprgmeth_b	B
Adult individual	avdprgmeth_i	I
Adult individual	frcsxrelat	4, 6, 7, 8, 9, 10
Adult individual	hivcnotsn	1, 2, 3, 4, 6, 7
Adult individual	hivtstlocation	6, 7
Adult individual	hivtstnors_j	J
Adult individual	hivtstnors_k	K
Adult individual	ind0040	8
Adult individual	lastpartnerrelation12months	7
Adult individual	mcwho	3
Adult individual	partlastsupwhat_d1- partlastsupwhat_d3	D
Adult individual	partlastsupwhat_e1	E
Adult individual	partlastsupwhat_g1- partlastsupwhat_g2	G
Adult individual	partlastsupwhat_h1- partlastsupwhat_h3	H
Adult individual	partlastsupwhat_i1- partlastsupwhat_i2	I
Adult individual	partrelation1- partrelation3	7
Adult individual	prssxrelat	4, 6, 7, 8, 9, 10, 11
Adult individual	seekhelpwhynot	2, 5
Adult individual	septrinnotake	2, 4, 7, 8
Adult individual	sptgrgt_a	A
Adult individual	touchrelat	4, 5, 6, 7, 8, 9
Adult individual	unwntsxnohlp	2, 5, 7, 8
Adult individual	uwntsxhelp_d	D
Adult individual	uwntsxhelp_e	E
Child individual	adhhiv_e	E
Child individual	adhivp_c	C
Child individual	adhivp_d	D
Child individual	admrlhiv	3, 4, 5, 6
Child individual	adnotsch_1	1
Child individual	adnotsch_4	4
Child individual	adnotsch_5	5
Child individual	adnotsch_7	7
Child individual	adnotsch_8	8
Child individual	adntezcon	A, B
Child individual	adwhcn_e	E
Child individual	adwhcn_f	F
Child individual	adwmisch_2	2
Child individual	adwmisch_3	3
Child individual	adwmisch_4	4
Child individual	adwmisch_5	5
Child individual	adwmisch_7	7
Child individual	adwmisch_8	8
Child individual	ch_kidcrcmprt	2, 3, 6

Variables and values collapsed in to the “other” classification, ZIMPHIA 2015-2016

Dataset(s)	Variable	Value(s)
Child individual	ch_kidhivwhynever_k	K
Child individual	langnatpt	1

The following variables were redacted entirely due to small counts on one or more values.

Variables redacted due to small counts, ZIMPHIA 2015-2016

Dataset(s)	Variable	Description
Household	diedaged1-diedaged4*	Days Old when died
Household	diedagem1-diedagem4*	Months Old when died
Adult individual	arvcntr	Did you continue to take the ARVs after delivery?
Adult individual	arvlty	What year did you last receive ARVs?
Adult individual	arvsntrcurrn	Can you tell me the main reason why you are not currently taking ARVs?
Adult individual	arvklb	During labor, did you take ARVs to protect ... against HIV?
Adult individual	birthyr2-birthyr6	What year did you give birth to (NAME)?
Adult individual	castt3	What are the first three letters of Zimbabwe?
Adult individual	cervcntr	Did you receive treatment after your last test for cervical cancer? Did you receive treatment on the same day or a different day?
Adult individual	childarvtake1-childarvtake2	Did [CHILD'S NAME] take any ARVs to stop him/her from getting HIV infection? This would be before [CHILD'S NAME] 's first HIV test.
Adult individual	childbrstfd3-childbrstfd6	Did you ever breastfeed (NAME)?
Adult individual	childbrstfdnow2-childbrstfdnow6	Are you still breastfeeding (NAME)?
Adult individual	childlive3-childlive6	Is [CHILD'S NAME] still alive?
Adult individual	childlivewith3-childlivewith6	Is [CHILD'S NAME] living with you?
Adult individual	childscotrim2	Did [CHILD'S NAME] take Septrin or cotrimoxazole? This would be before [CHILD'S NAME] 's first HIV test.
Adult individual	chtsthivbirth1	After (NAME) was born, was he/she tested for HIV?
Adult individual	chtsthivbrstfd1-chtsthivbrstfd2	While you were breastfeeding, was (NAME) tested for HIV?
Adult individual	chtsthivpostbrstfd2	After you stopped breastfeeding, was (NAME) tested for HIV?
Adult individual	chtsthivresult1-chtsthivresult2	What was the result of (NAME)'s first HIV test?
Adult individual	chtsthivresultpstbrstfd1-chtsthivresultpstbrstfd2	What was the result of (NAME)'s HIV test after you stopped breastfeeding?

Variables redacted due to small counts, ZIMPHIA 2015-2016

Dataset(s)	Variable	Description
Adult individual	csoldlb	How old were you at your last birthday?
Adult individual	csactarv	Are you currently taking ARVs, that is, antiretroviral medications?
Adult individual	csilhupmfs	In the last 12 months, have you paid money for sex?
Adult individual	csilthimhpup	In the last 3 months, how many people did you pay to have sex with?
Adult individual	csxpswceoti	Of these [X] partners, with how many did you have sex without a condom, even if it was only one time?
Adult individual	deathmon1- deathmon2	[CHILD'S NAME] 's Death Month
Adult individual	deathyr2	[CHILD'S NAME] 's Death Year
Adult individual	frcsx12mopt	In the past 12 months, did a partner physically force you to have sex?
Adult individual	hhlnchild3-hhlnchild6	Please select [CHILD'S NAME] 's household line number below.
Adult individual	hivcnot6mo	What is the main reason for not seeing a doctor, clinical officer or nurse for HIV medical care in the past 6 months?
Adult individual	hivrslr	What was the result of that test? (test taken during labor)
Adult individual	hivstatkidedu	In the last 12 months, has your child/children been dismissed, suspended or prevented from attending an educational institution because of your or his/her HIV status?
Adult individual	hivtsnr	What is the main reason you were not tested for HIV during antenatal care with [CHILD'S NAME] ?
Adult individual	hivtspasm	What was the month and year of your first HIV positive test result? (Month)
Adult individual	pregnrc	What is the main reason you did not visit a clinic for antenatal care when you were pregnant with [CHILD'S NAME] ?
Adult individual	prssx12mopt	In the past 12 months, did a partner pressure you to have sex and did succeed?
Adult individual	supportsocial12	In the last 12 months, has your household received any social support for kidname such as help in household work, training for a caregiver, or legal services, for which you did not have to pay?
Adult individual	supportsocial3	Did your household receive any of this social support for kidname in the past 3 months?
Adult individual	syphtrt	Did you get treatment for syphilis during your pregnancy with [CHILD'S NAME]?

Variables redacted due to small counts, ZIMPHIA 2015-2016

Dataset(s)	Variable	Description
Adult individual	childarvdurw2	For how long (weeks) did [CHILD'S NAME] take the ARVs to stop him/her from getting HIV?
Adult individual	childbrstfddurw2- childbrstfddurw6	For how long (weeks) did you breastfeed [CHILD'S NAME]?
Adult individual	childfoodagem2- childfoodagem3	How old (months) was [CHILD'S NAME] when you started giving [CHILD'S NAME] cow's/goat's milk, powdered milk, water, or any other foods or liquid?
Adult individual	childscotrimdurw2	In the previous question you indicated [CHILD'S NAME] took Septrin or cotrimoxazole for weeks. How many weeks were Septrin or cotrimoxazole taken by [CHILD'S NAME]?
Adult individual	chtsthivagem2	How old (months) was (NAME) when he/she first tested for HIV?
Child individual	adatndsch	Have you ever attended school?
Child individual	addifpsx	In total, how many different people have you had sex with? Please give your best guess.
Child individual	adfpsdkrf	Please provide the reason this previous question was left blank: In total, how many different people have you had sex with? Please give your best guess.
Child individual	addrtr_b	What drugs have you ever tried? B - BHANG
Child individual	addrtr_e	What drugs have you ever tried? E - MANDRAZ
Child individual	addrtr_x	What drugs have you ever tried? X - OTHER
Child individual	adfpsxage	How old was the person you first had sex with? Please give your best guess.
Child individual	adpsagdkr	Please provide the reason this previous question was left blank: How old was the person you had sex with? Please give your best guess.
Child individual	adfrcrel	The first time you were pressured or forced to have sex, what was your relationship to the person who did this?
Child individual	adfrccsc	Has anyone ever physically forced you to have sex and did succeed?
Child individual	adfsxcon	The first time you had sex, was a condom used?
Child individual	adftrel	The first time this happened, what was your relationship to the person who did this? If it

Variables redacted due to small counts, ZIMPHIA 2015-2016

Dataset(s)	Variable	Description
		was more than one person, what was your relationship with the person you knew the best?
Child individual	adhigrd	What is the highest grade/form/year that you have completed?
Child individual	admatsup	Sometimes people have sex to get material support. Material support means helping you to pay for things or giving you gifts or things. Have you ever had sex with someone because you expected material support?
Child individual	admrhiv	What is the main reason you think you are likely to get HIV?
Child individual	adoftcon	How often do you use a condom during sex?
Child individual	adorsx	Have you ever had oral sex? Oral sex is when a person puts his/her mouth on the penis or vagina of another person
Child individual	adpreg	Have you ever been pregnant?
Child individual	adprosvc	After any of these unwanted sexual experiences, did you try to seek professional help or services from any of the following?
Child individual	adprxscc	Has anyone ever pressured you to have sex, through harassment, threats or tricks and did succeed?
Child individual	adrspsvc	What was the main reason that you did not try to seek professional help or services?
Child individual	adsxage	How old were you when you had sex for the first time?
Child individual	adxagkdrf	Please provide the reason this previous question was left blank: How old were you when you had sex for the first time?
Child individual	adsxfrc	The first time you had sex, were you physically forced or were you pressured into having sex through harassment, threats or tricks?
Child individual	adsxfrsn	What was the main reason that you had sex for the first time?
Child individual	adsxtell	After any of these unwanted sexual experiences, did you tell anyone about it?
Child individual	adtchwopm	Has anyone ever touched you in a sexual way without your permission, but did not try and force you to have sex?
Child individual	adtrdrg	Have you ever tried drugs such as Miraa, Bhang, Glue, Kuber, Mandrax, Cocaine, Heroin, or others?

Variables redacted due to small counts, ZIMPHIA 2015-2016

Dataset(s)	Variable	Description
Child individual	adwhtl_a	Which of the following describes who you told about any of these unwanted sexual experience? A - PARENT / GUARDIAN
Child individual	adwhtl_b	Which of the following describes who you told about any of these unwanted sexual experience? B - SIBLING
Child individual	adwhtl_c	Which of the following describes who you told about any of these unwanted sexual experience? C - TEACHER
Child individual	adwhtl_d	Which of the following describes who you told about any of these unwanted sexual experience? D - FRIEND/CLASSMATE
Child individual	adwhtl_e	Which of the following describes who you told about any of these unwanted sexual experience? E - OTHER FAMILY MEMBER
Child individual	adwhtl_f	Which of the following describes who you told about any of these unwanted sexual experience? F - RELIGIOUS LEADER
Child individual	adwhysx	The first time you had sex, was it because you wanted to or because you were forced?
Child individual	ch_kidarvmiss30	People sometimes forget to take all of their ARVs every day. In the past 30 days, how many days has [CHILD'S NAME] missed taking any ARV pills?
Child individual	ch_kidarvmiss30dk	Please provide the reason this previous question was left blank: People sometimes forget to take all of their ARVs every day. In the past 30 days, how many days has [CHILD'S NAME] missed taking any ARV pills?
Child individual	ch_kidarvsfirstm	What month: (What month and year did [CHILD'S NAME] first start taking ARVs?)
Child individual	ch_kidarvslastm	What month: (What month and year did [CHILD'S NAME] last receive ARVs?)
Child individual	ch_kidarvslasty	What Year: (What month and year did [CHILD'S NAME] last receive ARVs?)
Child individual	ch_kidarvsnotrsn	Can you tell me the main reason why [CHILD'S NAME] is not currently taking ARVs?
Child individual	ch_kidarvsnvrrsn	What is the main reason [CHILD'S NAME] has never taken ARVs?
Child individual	ch_kidcd4lastm	What month: (What month and year was [CHILD'S NAME] last tested for his/her CD4 count?)

Variables redacted due to small counts, ZIMPHIA 2015-2016

Dataset(s)	Variable	Description
Child individual	ch_kidclasscmplt	What is the highest grade/form/year that [CHILD'S NAME] has completed?
Child individual	ch_kidclasscmpltck	Please provide the reason this previous question was left blank: What is the highest grade/form/year that [CHILD'S NAME] has completed?
Child individual	ch_kidclasslstyr	What grade/form/year was [CHILD'S NAME] during the previous school year?
Child individual	ch_kidclasslstyrck	Please provide the reason this previous question was left blank: What grade/form/year was [CHILD'S NAME] during the previous school year?
Child individual	ch_kiddiagtbm	What month: (What month and year did a doctor, clinical officer or nurse diagnose [CHILD'S NAME] with TB?)
Child individual	ch_kiddiagtby	What Year: (What month and year did a doctor, clinical officer or nurse diagnose [CHILD'S NAME] with TB?)
Child individual	ch_kidhivcare	Has [NAME] ever received HIV medical care from a doctor, clinical officer or nurse? (Child Record)
Child individual	ch_kidhivcarefirstm	What month: (What month and year did [CHILD'S NAME] first see a doctor, clinical officer or nurse for HIV medical care?)
Child individual	ch_kidhivcarelastm	What month: (What month and year did [CHILD'S NAME] last see a doctor or nurse for HIV medical care?)
Child individual	ch_kidhivcarelasty	What Year: (What month and year did [CHILD'S NAME] last see a doctor or nurse for HIV medical care?)
Child individual	ch_kidhivcarenvr	What is the main reason why [CHILD'S NAME] has never seen a doctor, clinical officer or nurse for HIV medical care?
Child individual	ch_kidhivnot6rsn	What is the main reason for [CHILD'S NAME] not seeing a doctor, clinical officer or nurse for HIV medical care for more than 6 months?
Child individual	ch_kidhivtestfirstm	What month: (What was the month and year of [CHILD'S NAME] 's first HIV positive test result?)
Child individual	ch_kidhivtestfirsty	What Year: (What was the month and year of [CHILD'S NAME] 's first HIV positive test result?)

Variables redacted due to small counts, ZIMPHIA 2015-2016

Dataset(s)	Variable	Description
Child individual	ch_kidhivtestlast	You said earlier that [CHILD'S NAME] had been tested for HIV. Was that the last time [CHILD'S NAME] was tested for HIV?
Child individual	ch_kidseptrin	Is [CHILD'S NAME] currently taking Septrin or cotrimoxazole?
Child individual	ch_kidseptrinnotrsn	Can you tell me the main reason why [CHILD'S NAME] is not currently taking Septrin or Cotrimoxazole daily?
Child individual	ch_kidtbscnct12	In the last 12 months, has [CHILD'S NAME] experienced these TB symptoms or had contact with someone with TB?
Child individual	ch_kidtbxrayspt12_a	In the last 12 months, did [CHILD'S NAME] receive a chest x-ray or sputum test to look for tuberculosis or TB? A - CHEST X-RAY
Child individual	ch_kidtbxrayspt12_b	In the last 12 months, did [CHILD'S NAME] receive a chest x-ray or sputum test to look for tuberculosis or TB? B - SPUTUM TEST
Child individual	ch_kidtbxrayspt12_c	In the last 12 months, did [CHILD'S NAME] receive a chest x-ray or sputum test to look for tuberculosis or TB? C - NONE OF THESE
Child individual	ch_kidtbxrayspt12_y	In the last 12 months, did [CHILD'S NAME] receive a chest x-ray or sputum test to look for tuberculosis or TB? Y - DON'T KNOW
Child individual	ch_kidtbxrayspt12_z	In the last 12 months, did [CHILD'S NAME] receive a chest x-ray or sputum test to look for tuberculosis or TB? Z - REFUSE
Child individual	ch_kidtrttb	Was [CHILD'S NAME] ever treated for TB?
Child individual	ch_kidtrttb6motrt	The last time [CHILD'S NAME] was treated for TB, did [CHILD'S NAME] complete at least 6 months of treatment?
Child individual	momarvcntn	Did you continue to take the ARVs after delivery?
Child individual	momarvnrgp	What was the main reason you did not take ARVs while you were pregnant with [CHILD'S NAME]?
Child individual	momarvklb	Mothers reponse to the question, During labor, did you take ARVs to protect this child against HIV?
Child individual	mombreastfedchild	Mothers self-reported breastfeeding status on child record
Child individual	momhivrslr	Mothers reponse to the question, What was the result of that test? (test taken during labor)

Variables redacted due to small counts, ZIMPHIA 2015-2016

Dataset(s)	Variable	Description
Child individual	momhivtsnr	What is the main reason you were not tested for HIV during antenatal care with [CHILD's NAME]?
Child individual	mompregmonths	How many months pregnant are you?
Child individual	mompregncr	What is the main reason you did not visit a clinic for antenatal care when you were pregnant with [CHILD's NAME]?
Child individual	momsyphttrt	Did you get treatment for syphilis during your pregnancy with [CHILD's NAME]?
Child individual	sick3mo	Has name been very sick for at least 3 months during the past 12 months, that is name was too sick to work or do normal activities?
Child individual	supportsocial3	Did your household receive any of this social support for kidname in the past 3 months?

* If age at death was provided in months or days, then the record will have an equivalent value in age in years at death (diedagey1- diedagey4).

5. Dataset specifications

Dataset (filename)	Number of observations	Number of variables
Household (zimphia2015hh)	15,009	364
Adult individual (zimphia2015adultind)	28,993	1,502
Adult biomarker (zimphia2015adultbio)	25,034	291
Child individual (zimphia2015childind)	19,575	723
Child biomarker (zimphia2015childbio)	8,545	541
Household intermediary weights (zimphia2015hhintermediarywts)	15,009	253
Individual intermediary weights (zimphia2015indintermediarywts)	48,572	1,004
Dataset specification	Description	
Two-letter country code prefix for ID variables	ZW	
Survey weighting variables		
No. of jackknife replicates	248	
Survey weights provided (variable prefix)	Household (hhwt) Individual interview (intwt) Blood test (btwt) Child module (chmodfwt) (optional) HIV knowledge module (hivkpswt) (optional) Violence module (vmpstwt) (optional) Child nutritional status (cwh_wt) (optional) CASI module (casipswt)	
Selected variable parameters		
Household characteristics used for wealth index construction	<i>See next section</i>	
CD4+ cell count cut-off for ARV treatment eligibility as per prevailing national guideline during survey	500 cells/μl	
Mean duration recent infection used for HIV incidence estimation	130 days (95% CI 118-142 days)	
Population weights (sum to the population size) or normalized weights (sum to the sample size)	Population weights	

6. Wealth index

As described in the *PHIA Data Use Manual*, a wealth index is constructed using principal components analysis (PCA) on household characteristics and asset ownership variables that can vary by country. The table below lists the variables used to construct the wealth index for ZIMPHIA 2015.

Indicator variable	Type	Description
memsleep ¹	Numeric (count)	Number of household members per sleeping room
matroof	Categorical	Dwelling roofing material
matexwalls	Categorical	Dwelling wall material
matfloor	Categorical	Dwelling floor material
toilettype	Categorical	Type of toilet used by the household
toiletshare	Binary	Is the toilet shared with other households?
watersource	Categorical	Source of water used by the household
cookingfuel	Categorical	Type of cooking fuel used by the household
econsup12	Binary	Received any economic support in the last 12 months
<i>For the remaining variables:</i>		<i>Does this household have/own...?</i>
havebattery	Binary	A battery or generator for power
havecell	Binary	A mobile telephone
havecomputer	Binary	A computer
haveelect	Binary	Electricity connected
havephone	Binary	A non-mobile telephone
haveradio	Binary	A radio in working condition
haverefrig	Binary	A refrigerator in working condition
havesolar	Binary	A solar panel for power
havetele	Binary	A television in working condition
ownbike	Binary	A bicycle
ownboat	Binary	A boat
owncar	Binary	A car
owncart	Binary	An animal-drawn cart
ownchikn	Binary	Chickens or other poultry
owncow	Binary	Cattle
owngoat	Binary	Goats
ownhorse	Binary	Horses
ownmoto	Binary	A motorcycle or motor scooter
ownmule	Binary	Donkeys/Mules
ownpig	Binary	Pigs
ownrabbit	Binary	Rabbits
ownsheep	Binary	Sheep
owntractor	Binary	A tractor
ownwatch	Binary	A watch
ownwheelb	Binary	A wheelbarrow

¹ memsleep is calculated as the number of de facto household members (rostercountdefacto) divided by the number of sleeping rooms in the household (roomsleep), with decimals rounded down to the next lowest integer. These variables are reported by the household head and can both be found on the household dataset.

Wealth scores and model performance

The first component of the PCA model is interpreted as an index of household wealth. However, it does not explain a large proportion of the total variance: it accounts for only around 9% of the total variance in the common model, 5% for the urban model, and 6% for the rural model. Howe et al. note that this figure is “often less than 20%”.¹ The results from ZIMPHIA 2015–2016 are consistent with those of other DHS studies in similar settings.²⁻⁴

The PCA method does not guarantee the extraction of an index that is actually well-correlated with wealth, but results from the PCA can be used to check whether the interpretation of the model makes sense. The component loading for each asset variable describes the association between that asset and the wealth index. The following table shows the most influential variables as measured by absolute value of their loading in each model:

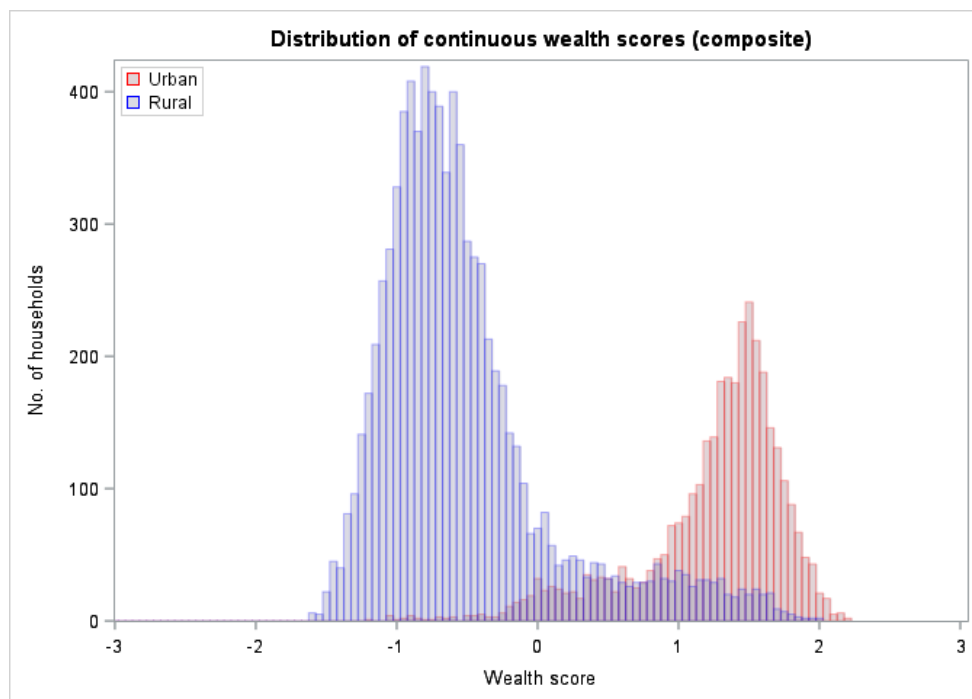
Variable	Category	Component loading		
		Common model	Urban model	Rural model
Electricity	Yes	0.88	-0.78	0.77
Cooking fuel	Electricity	0.84	-0.71	0.76
Cooking fuel	Wood	-0.88	0.64	-0.77
Refrigerator	Yes	0.76	-0.63	0.67
Telephone	Yes	0.72	-0.65	0.57
Toilet type	Flush to piped sewer system	0.80	-0.57	0.50
Water source	Piped into dwelling	0.66	-0.44	0.52
Roof material	Thatch/grass	-0.61	0.30	-0.61
Toilet type	No facility/bush/field	-0.47	0.38	-0.45
Floor material	Earth/sand	-0.44	0.28	-0.46
Computer	Yes	0.40	-0.31	0.40
Wall material	Mud	-0.37	0.25	-0.39
Car or truck	Yes	0.37	-0.32	0.32

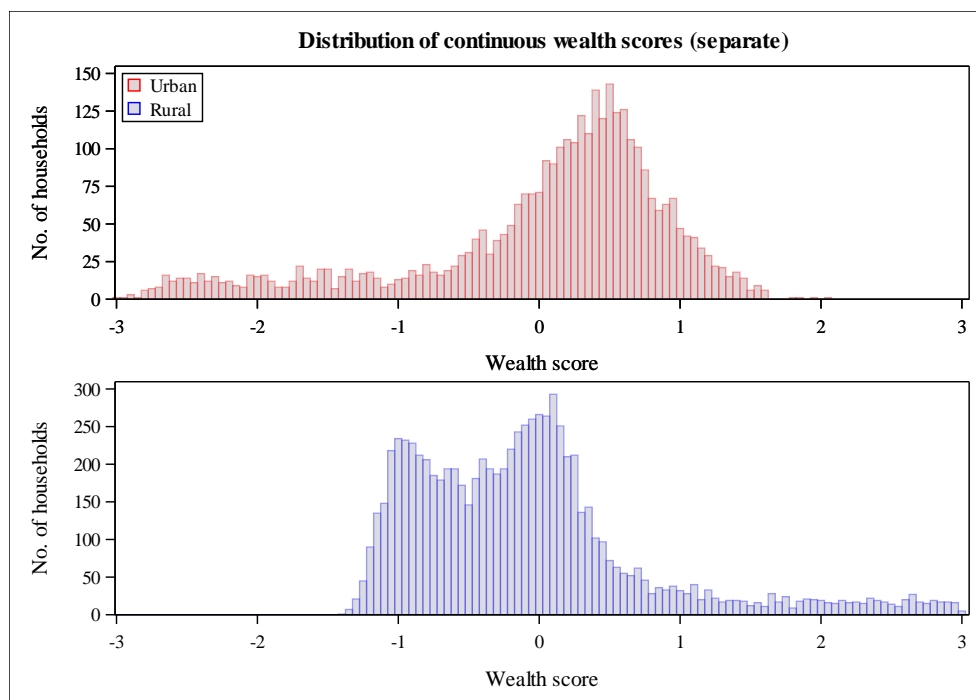
Most of the highest-weighted variables in the model relate to the presence or absence of important household utilities and services like electricity, connection to a sewer system, and water piped into the dwelling. Building materials associated with lower-quality housing, such as a thatch/grass roof, mud walls, and earth or sand flooring have strong negative associations with wealth.

Note that the urban weights have the opposite sign to the rural and common model. This is due to the particular distribution of values for urban households and the way that the model has found a fit. This means that a lower (more negative) urban wealth index indicates higher wealth. This negative sign has no impact on the final wealth index and quintile variables because the regression model fit to the common score has a negative slope.

The distribution of wealth index scores is shown in the figures below, first the composite wealth index for all households, and then the urban and rural-specific wealth indices. The distribution

for the composite wealth index is heavily skewed towards households with lower wealth. This is because the rural distribution is strongly skewed towards the lowest values, in comparison to the urban model which has a more symmetric distribution. This is a common occurrence in this type of wealth index model because most of the households towards the lowest end of the wealth distribution have very few of the major assets that are included in the questionnaire. Lastly, wealth quintiles were not calculated for households with missing data on any of the included variables ($n=3$, 0.01% of responding households are missing). Users of the data should keep in mind that it is difficult to compare the relative wealth within this poorest rural group of households.





III. References

1. Howe LD, Hargreaves JR, Huttly SR. Issues in the construction of wealth indices for the measurement of socio-economic position in low-income countries. *Emerg Themes Epidemiol.* 2008;5:3.(doi):10.1186/1742-7622-1185-1183.
2. Vyas S, Kumaranayake L. Constructing socio-economic status indices: how to use principal components analysis. *Health Policy Plan.* 2006;21(6):459-468. Epub 2006 Oct 2009.
3. Filmer D, Pritchett LH. Estimating wealth effects without expenditure data - or tears: An application to educational enrollments in states of India. *Demography.* 2001;38(1):115-132.
4. Zimbabwe National Statistics Agency, ICF International. *Zimbabwe Demographic and Health Survey 2015: Final Report.* Rockville, Maryland, USA: Zimbabwe National Statistics Agency (ZIMSTAT) and ICF International;2016.

IV. CONSORT diagrams for analytic variables

This section contains CONSORT diagrams for analytic variables provided in ZIMPHIA 2015–2016 datasets. These diagrams are designed to facilitate use of analytic variables by illustrating which source variables are incorporated into each analytic variable and how participants are categorized based on data from these variables. See CONSORT diagram key on page 16.

List of CONSORT diagrams

Variable name	Description	Page
<i>(example)</i>	<i>CONSORT diagram example key</i>	31
hhstatus	Indicator of household eligibility and response status	32
indstatus	Indicator of individual eligibility and response status	32
bt_status	Did LAB blood test have definite result?	32
hivstatusfinal	HIV-1 status: final, for survey analysis	34
vls	Indicator of whether individual has suppressed viral load	34
cd4cat	CD4 category	36
hivselfreport	Self-reported HIV Status of HIV positive individuals	38
known_hiv_status	Self-reported HIV test result status	40
awareselfreported	Indicator of whether individual is self-reported as aware of their HIV seropositive status	42
aware	Awareness combining self-report and ARV testing	44
artselfreported	Indicator of whether an adult is self-reported as on ART	46
art	Indicator of whether on art combining self-report and ARV testing	48
awareartselfreported	Indicator of patient self-reporting as previously diagnosed and if they were on ART	50
arvstatus	Indicator of whether individual has detectable ARVs	52
artduration	Duration of time on ART	54
artinitiated12months	Indicator of whether individual initiated ART in past 12 months, among those ever reported to be on ART	56
tri90	Flag for inclusion in 90-90-90 analysis	58
tri90aware	Indicator of whether individual is aware of their HIV seropositive status, for 90-90-90 analysis	60
tri90art	Indicator of whether individual is on ART, for 90-90-90 analysis	62
tri90vls	Indicator of whether individual has suppressed viral load, for 90-90-90 analysis	64
pedawareparentreported	Indicator of whether parent is aware of child's HIV seropositive status, among children age 0-14	66
pedaware	Indicator of whether parent reports the child age 0-14 is on ART	68
pedartparentreported	Pediatric awareness combining parent-report and ARV testing	70
pedart	Indicator of whether child is on art combining parent-report and ARV testing	72
pedtri90	Flag for inclusion in pediatric 90-90-90 analysis, among children age 0-14	74
pedtri90aware	Indicator of whether parent is aware of child's HIV seropositive status, for pediatric 90-90-90 analysis	76
pedtri90art	Indicator of whether parent reports that child is on ART or that the child tested positive for ARVs, for pediatric 90-90-90 analysis	78
pedtri90vls	Indicator of whether child has suppressed viral load, for pediatric 90-90-90 analysis	80
activesyphilis	Indicator of whether individual has active syphilis infection (treponemal and nontreponemal reactive)	82

List of CONSORT diagrams

Variable name	Description	Page
eversyphilis	Indicator of whether individual has ever had syphilis infection (treponemal reactive, nontreponemal either reactive or nonreactive)	82
education	Level of school respondent ever attended	84
agegroupmonthslastchild	Categories of time in months since last birth for mothers	86
adeducation	Indicator of whether adolescent is currently in school	88
pregnancystatus	Pregnancy status	90
testedpregnancyawaredetail	Tested for HIV during pregnancy	92
testedreceiveddetail	Receipt of HIV testing and test results in the past 12 months	98
mother	Indicator of whether individual is a mother	100
delivered12months	Indicator of whether mother has given birth in past 12 months, among mothers age 15-49	102
delivered3years	Indicator of whether mother has given birth in past 3 years, among mothers age 15-49	104
arvspregnancydetail	Self-reported ARV status during last pregnancy	106
hivstatuslastpregnancy	Self-reported HIV status during last pregnancy	108
lastbornhivstatus	Result of last born child's first HIV test	110
lastborntestedbirthdetail	Timing of last born child's first HIV test	112
breastfedlastchild	Breastfeeding status for last born child	115
anclastchild	Receipt of antenatal care during last pregnancy, among mothers who delivered in past 3 years	117
sexever	Indicator for whether individual has ever had sex	119
sex12months	Indicator for whether individual had sexual intercourse in past 12 months	121
lastpartner	Indicator of last sex partner	123
condomlastsex12months	Indicator of whether individual used a condom at last sexual encounter in past 12 months	125
paidsex12months	Indicator of whether individual bought or sold sexual intercourse in past 12 months	127
condomlastpaidsex12months	Indicator of whether individual used a condom at last paid sexual intercourse in past 12 months	129
lastpartnerrelation12months	Relationship status with last sex partner in past 12 months	131
lastpartnerspouselivein12months	Indicator of whether last sex partner in past 12 months was spouse or live-in partner	133
allpartnersspouselivein12months	Indicator of whether all partners in the past 12 months were a spouse or live-in partner	135
condomlastnonmaritalsex12months	Indicator of whether individual used a condom at last sexual intercourse with their last non-marital non-cohabitating partner in past 12 months	137
vm_status	Violence module response status	139
vmflag	Indicator of eligibility and response status for violence module	139
sexualviolencepart12mo	Experienced sexual violence from a partner in the past 12 months	141
physicalviolencepart12mo	Experienced physical violence from a partner in the past 12 months	143
hivk_eligible	Indicator of whether individual was selected for HIV knowledge module	145
hivk_status	Indicator of response status for HIV knowledge module	145

Variable: **mother**

Found in **ZIMPHIA 2015-2016** dataset:
Adult Interview

31

CONSORT diagram heading:
Variable names, PHIA survey,
and dataset(s) containing these variables

Age 15+
(indstatus* = 1 and
age ≥ 15)
N = 24,660

Initial box describes starting
population and N (sample size)

Female
(gender = 2)
N = 14,454

Subsequent boxes linked by arrows show sub-
categories of the previous box, the variables
used to define them, and the number of
observations.

Asterisks (*) denote other analytic variables.
See list of CONSORT diagrams.

Male
(gender = 1)
N = 10,206

Woman has been pregnant more than 0 times
(pregnum > 0)
N = 11,715

Woman has never been pregnant
(pregnum = 0)
N = 2,629

Missing or less than 0
(pregnum = -7 or .)
N = 110

"Bridges" show
separate crossing lines.

Pregnancy resulted in a livebirth
(liveb = 1)
N = 11,163

Does not know or refused to respond
(liveb = -8)
N = 1

Pregnancy did not result in a livebirth
(liveb = 2)
N = 551

Mother
(mother = 1)
N = 11,164

Not a mother
(mother = 2)
N = 3,180

Missing
(mother = 99)
N = 10,316

Boxes with bolded lines
indicate final categories and
sample sizes.

Variables: hhstatus, indstatus, bt_status

Found in ZIMPHIA 2015-2016 datasets:

Household

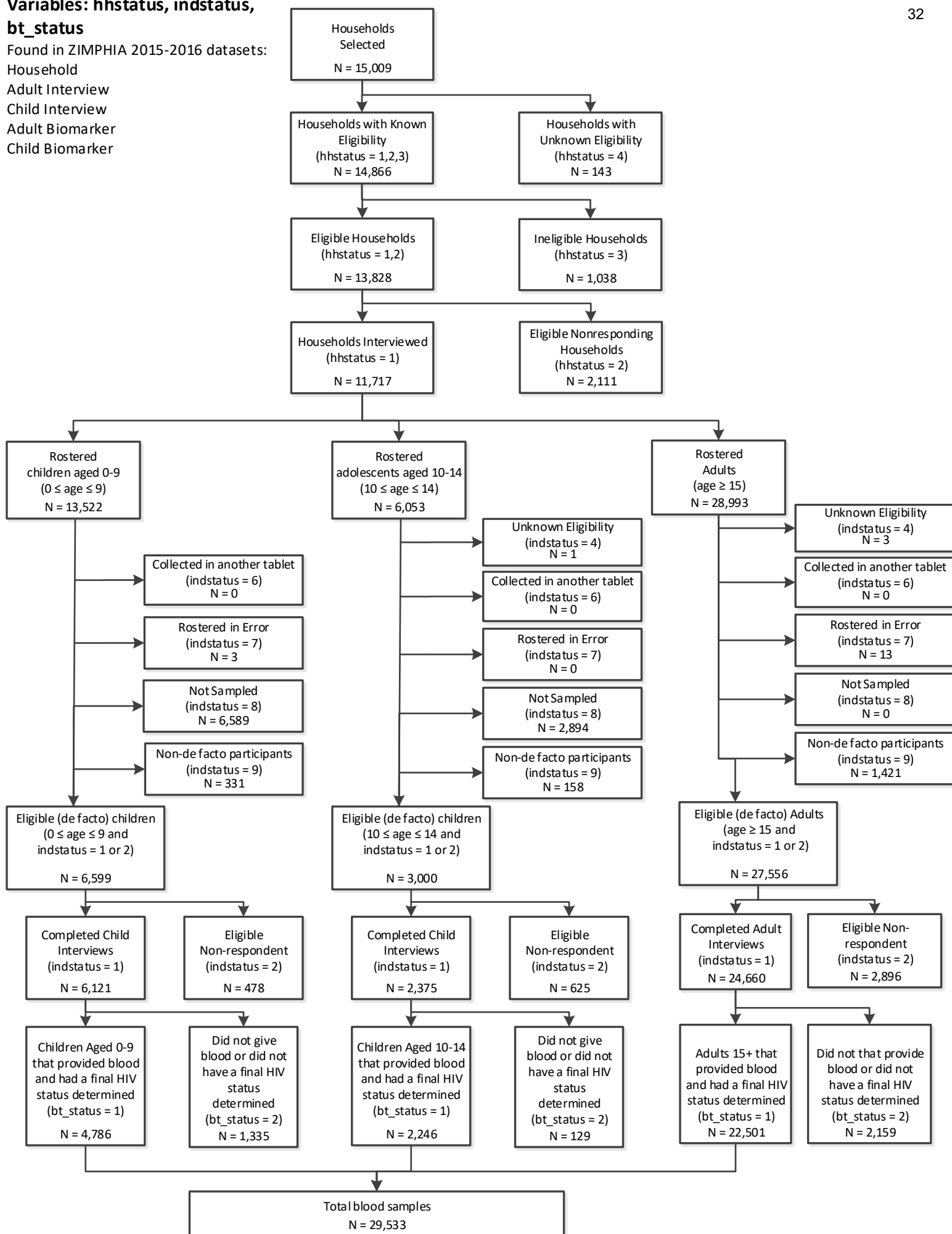
Adult Interview

Child Interview

Adult Biomarker

Child Biomarker

32



Variables: hhstatus, indstatus, bt_status

Use the following ZIMPHIA 2015-2016 variables:

Household dataset

hhstatus

Adult Interview dataset

age

indstatus

Child Interview dataset

age

indstatus

Adult Biomarker dataset

bt_status

Child Biomarker dataset

bt_status

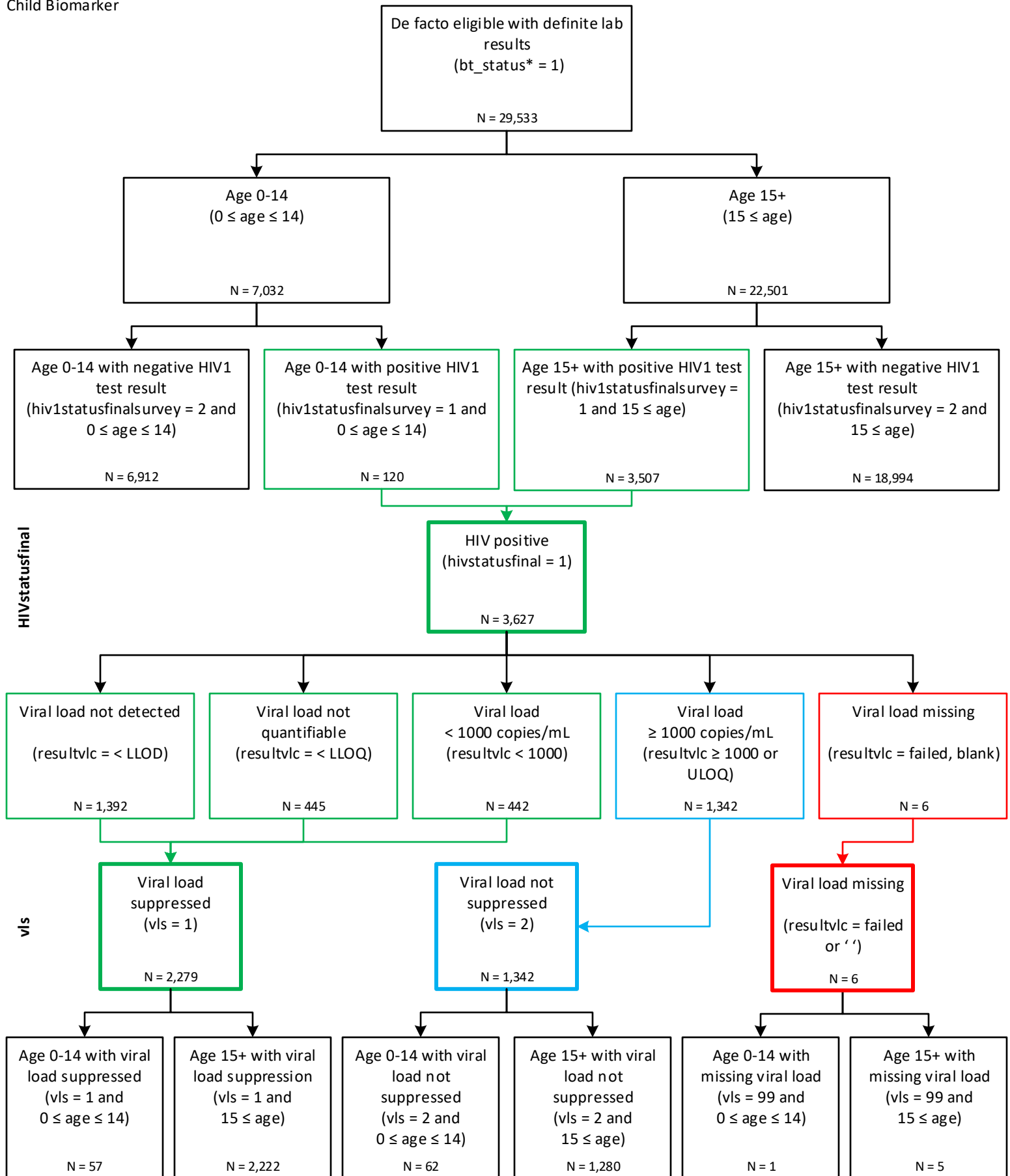
Variables: hivstatusfinal, vls

Found in ZIMPHIA 2015-2016 datasets:

Adult Biomarker

Child Biomarker

34



Variables: hivstatusfinal, vls

Uses variables from ZIMPHIA 2015-2016 datasets:

Adult Biomarker

- bt_status
- hiv1statusfinalsurvey
- hivstatusfinal
- resultvlc
- vls
- age

Child Biomarker

- bt_status
- hiv1statusfinalsurvey
- hivstatusfinal
- resultvlc
- vls
- age

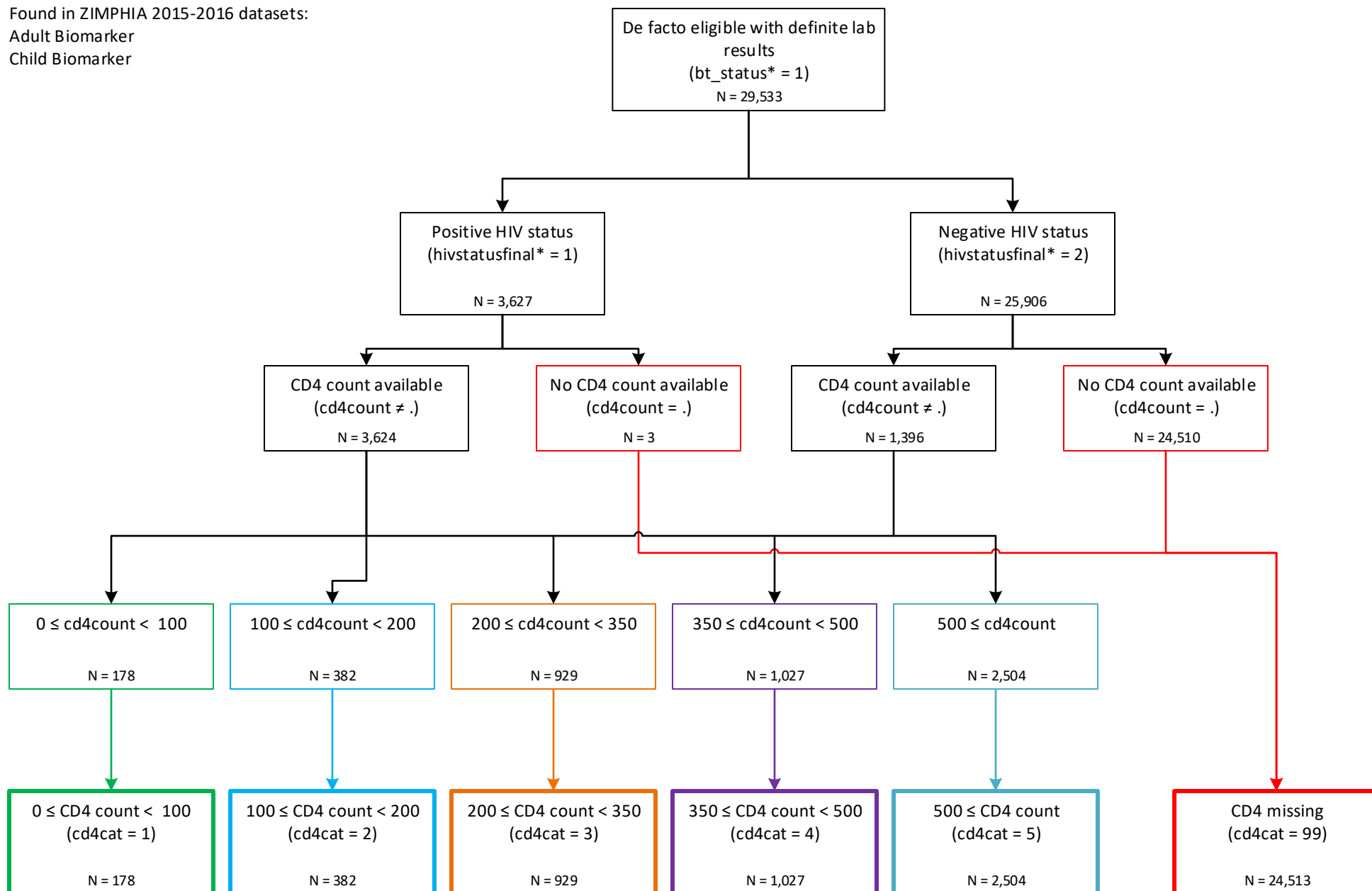
Variable: cd4cat

Found in ZIMPHIA 2015-2016 datasets:

Adult Biomarker

Child Biomarker

36



Variable: cd4cat

Uses the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

- bt_status
- age
- hivstatusfinal
- cd4count
- cd4cat

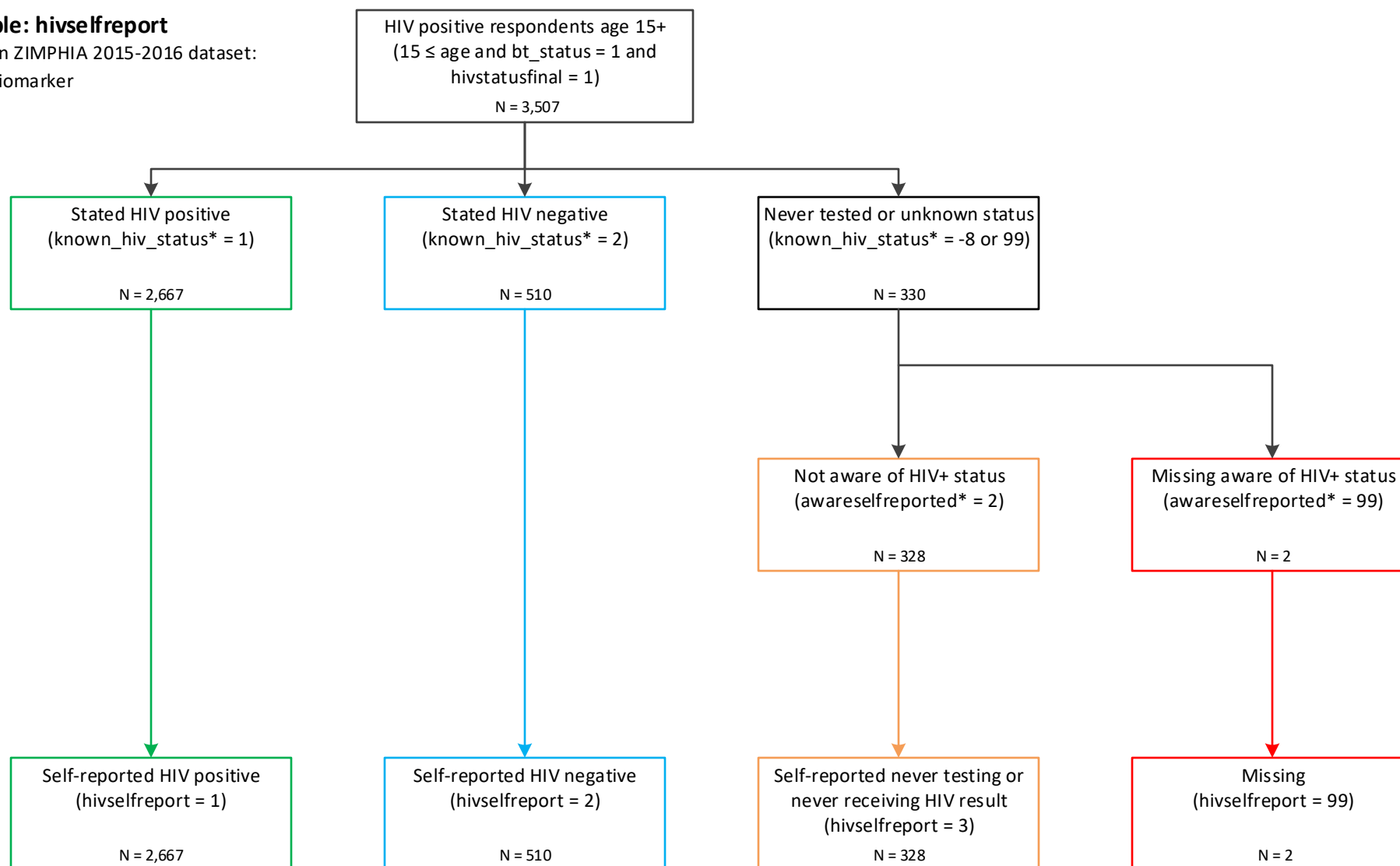
Child Biomarker dataset

- bt_status
- age
- hivstatusfinal
- cd4count
- cd4cat

Variable: hivselfreport

Found in ZIMPHIA 2015-2016 dataset:
Adult Biomarker

38



Variable: hivselfreported

Uses the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

bt_status

hivstatusfinal

awareselfreported

Adult Interview dataset

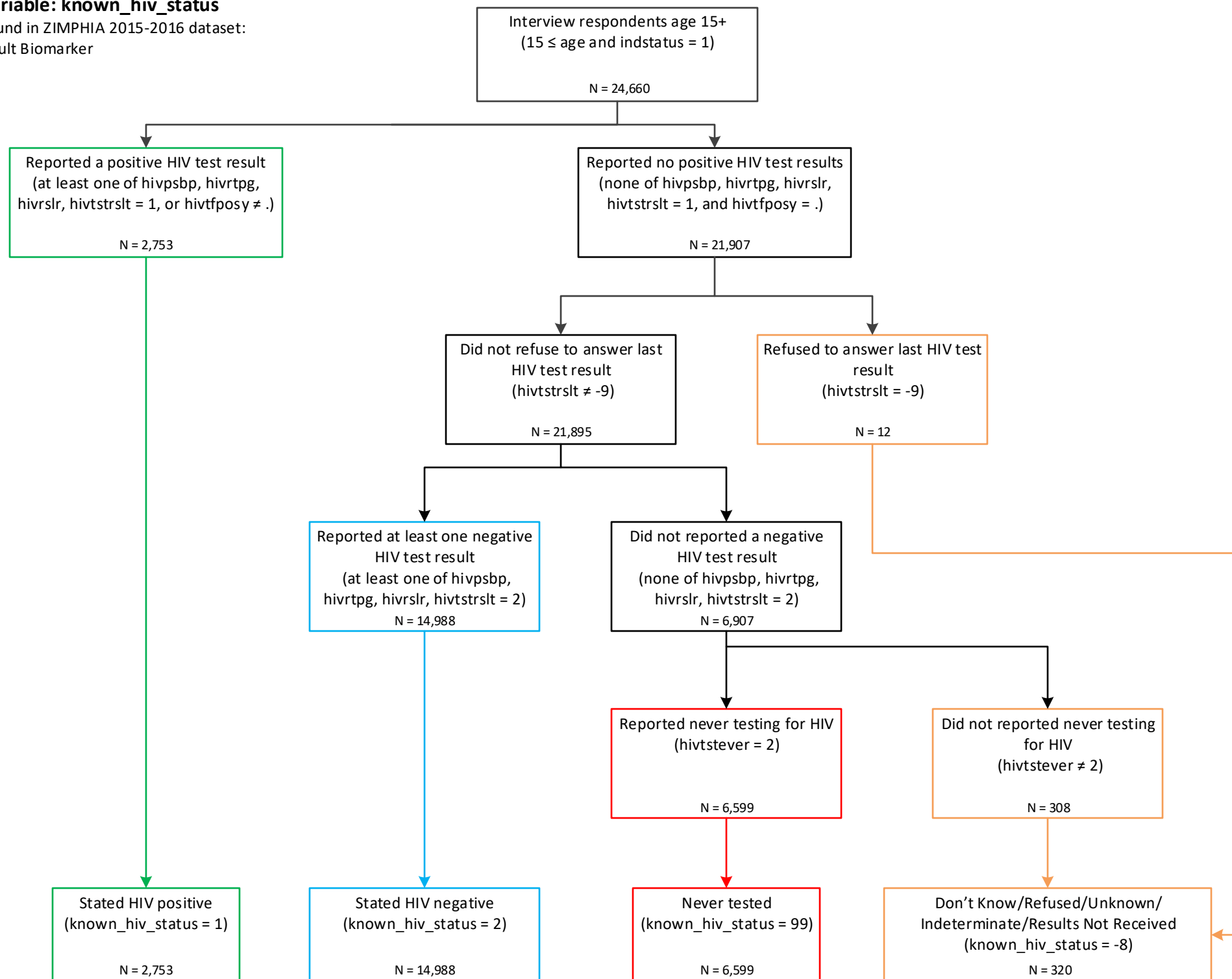
known_hiv_status

Variable: known_hiv_status

Found in ZIMPHIA 2015-2016 dataset:

Adult Biomarker

40



Variable: known_hiv_status

Uses the following ZIMPHIA 2015-2016

variables:

Adult Biomarker dataset

hivstatusfinal

Adult Interview dataset

age

indstatus

hivtstever

hivtstrslt

hivrtpg

hivrslr

hivpsbp

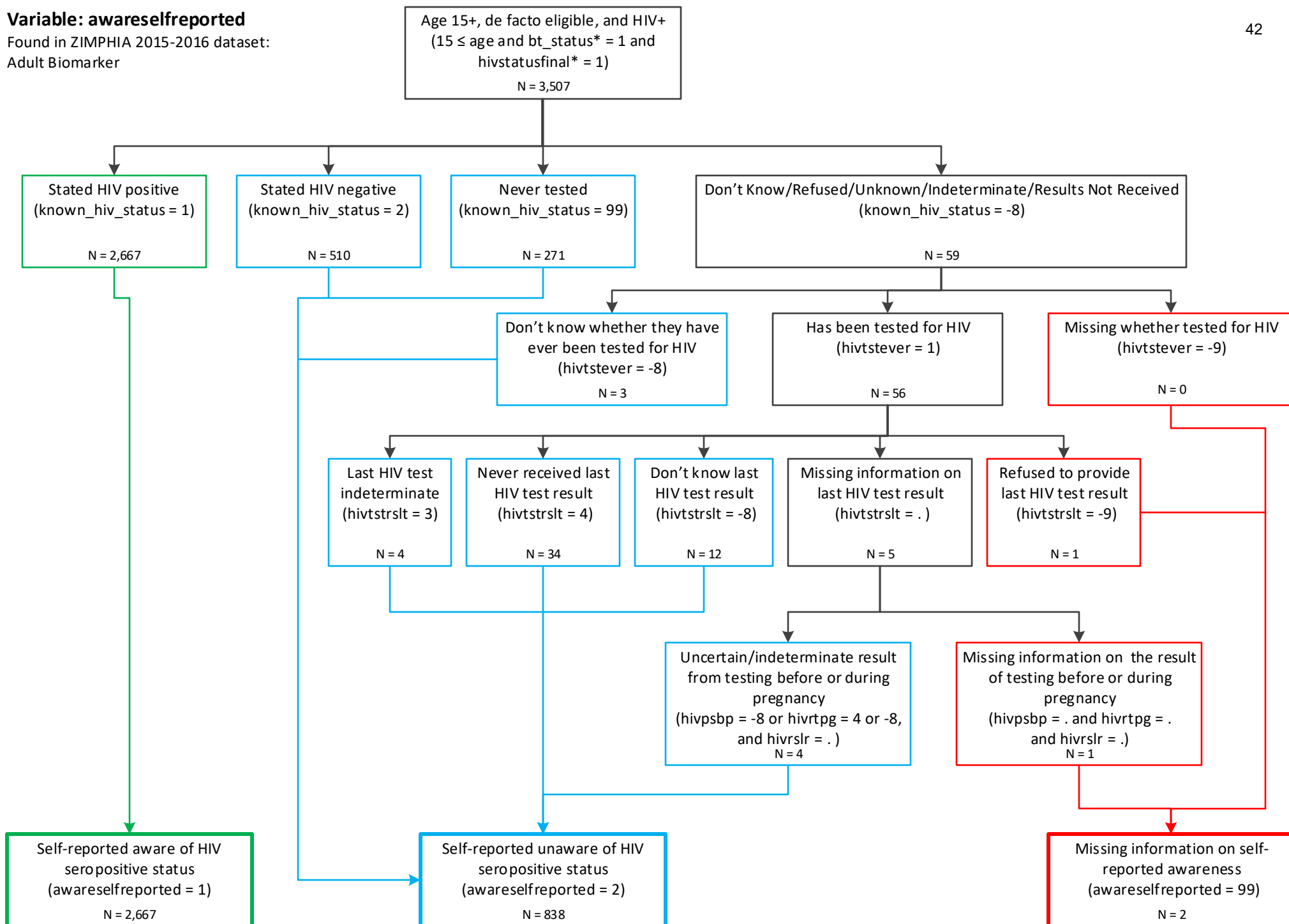
hivtfposy

Variable: awareselfreported

Found in ZIMPHIA 2015-2016 dataset:

Adult Biomarker

42



Variable: awareselfreported

Uses the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

- bt_status
- hivstatusfinal

Adult Interview dataset

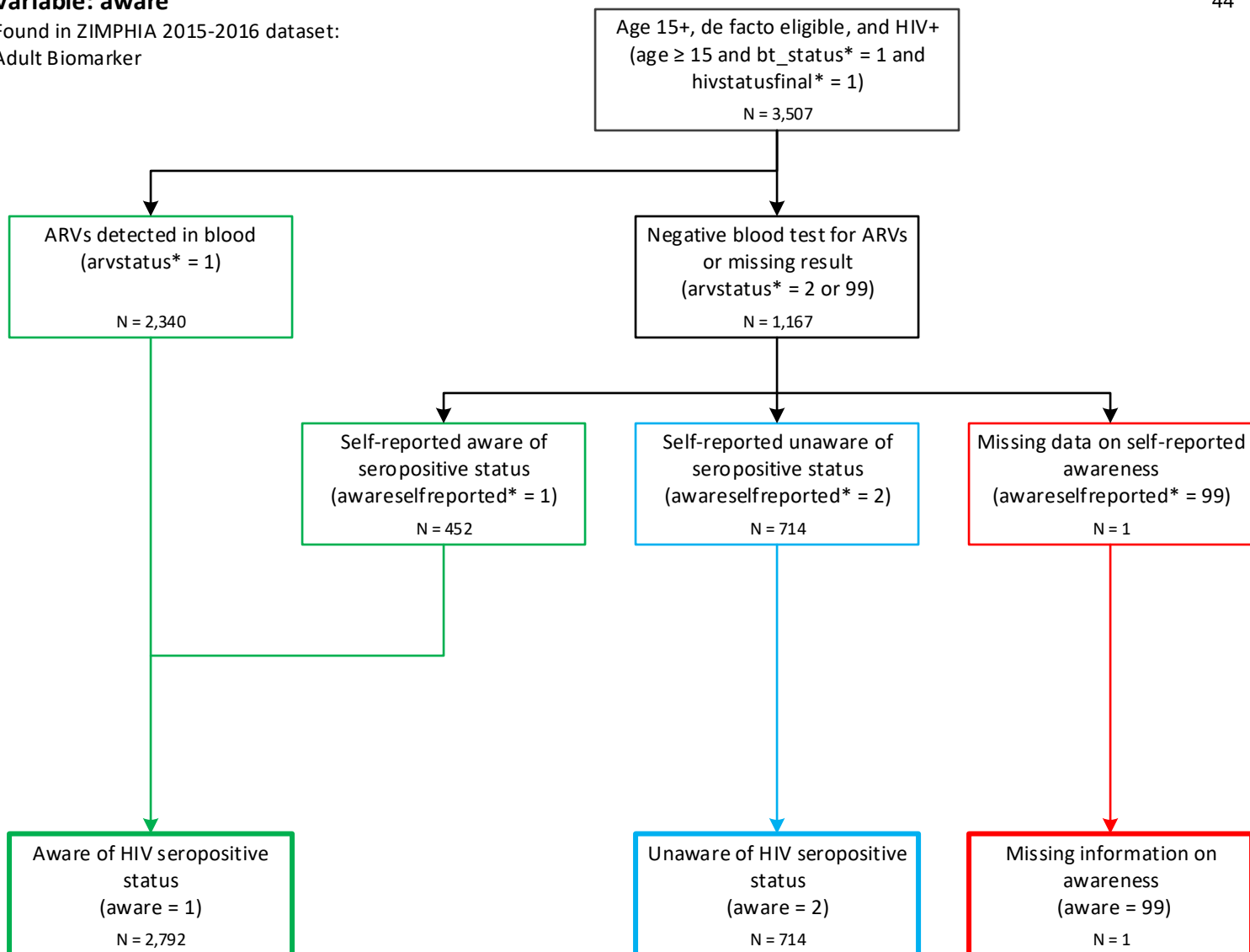
- age
- known_hiv_status
- hivtstever
- hivtstrslt
- hivrtpg
- hivrslr†
- hivpsbp

† Variable redacted from final dataset due to small counts

Variable: aware

Found in ZIMPHIA 2015-2016 dataset:
Adult Biomarker

44



Variable: aware

Uses the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

bt_status

hivstatusfinal

age

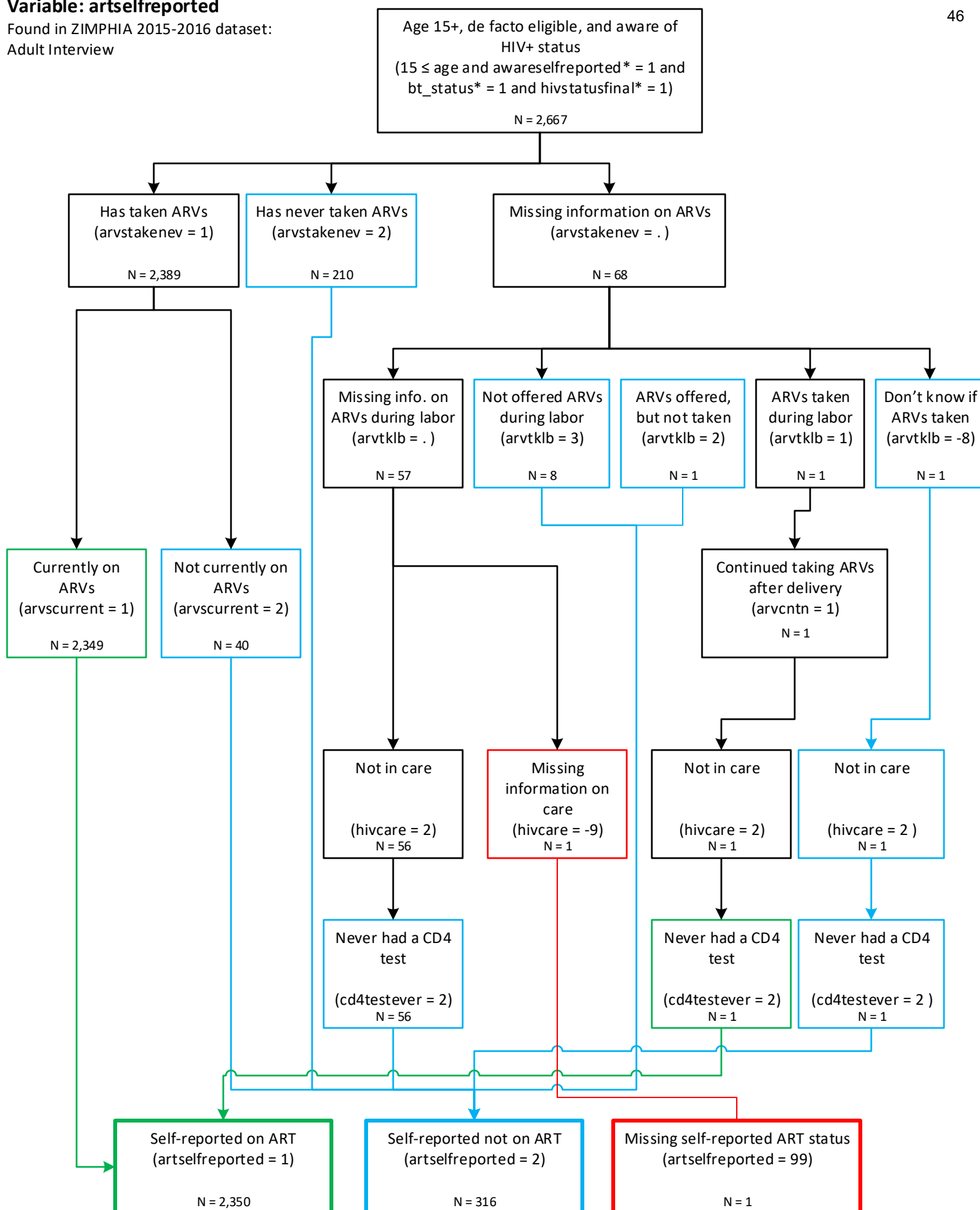
awareselfreported

arvstatus

Variable: artselfreported

Found in ZIMPHIA 2015-2016 dataset:
Adult Interview

46



Variable: artselfreported

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

- age
- arvstakenev
- arvscurrent
- arvtklb†
- arvcntn†
- hivcare
- cd4testever

Adult Biomarker dataset

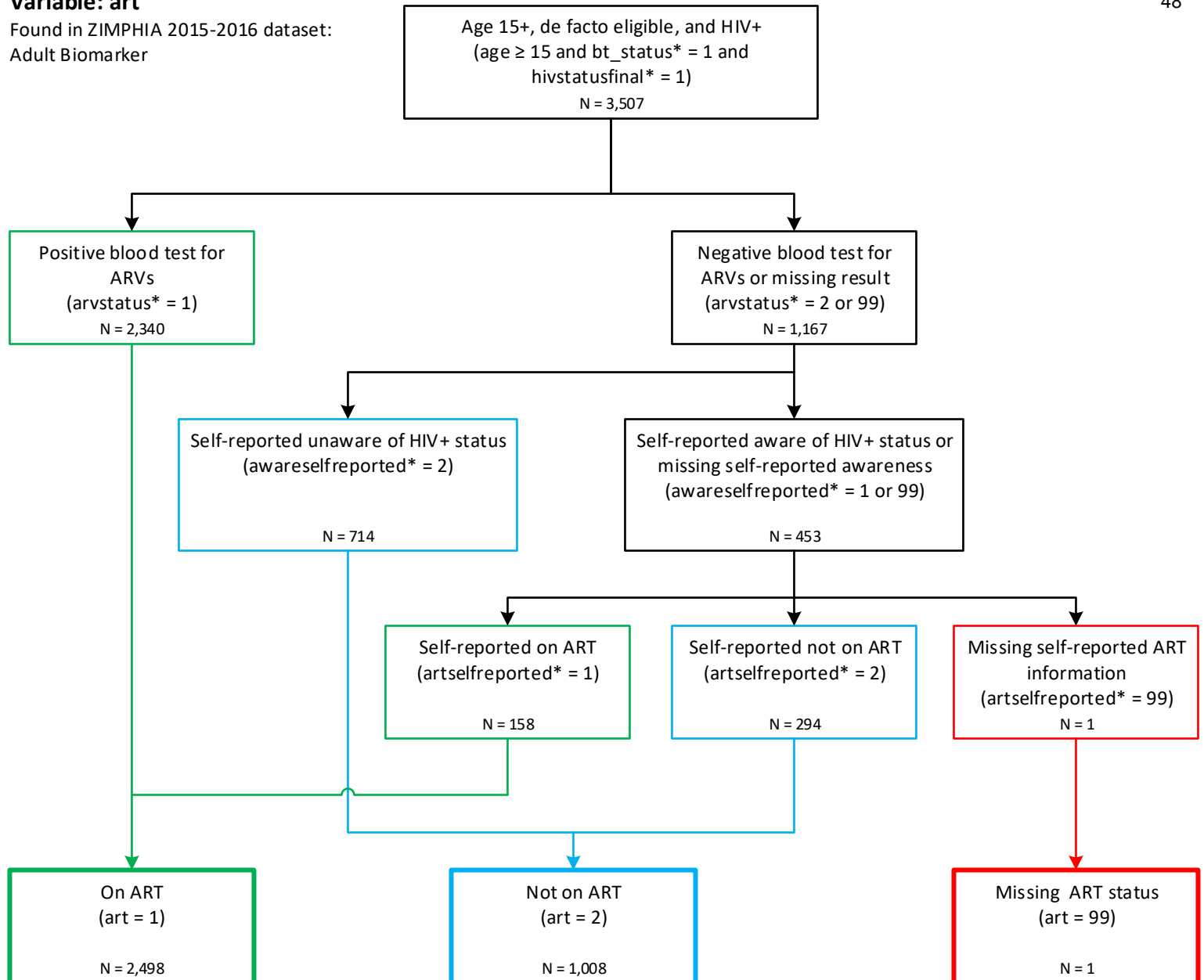
- bt_status
- hivstatusfinal
- awareselfreported

† Variable redacted from final dataset due to small counts

Variable: art

Found in ZIMPHIA 2015-2016 dataset:
Adult Biomarker

48



Variable: art

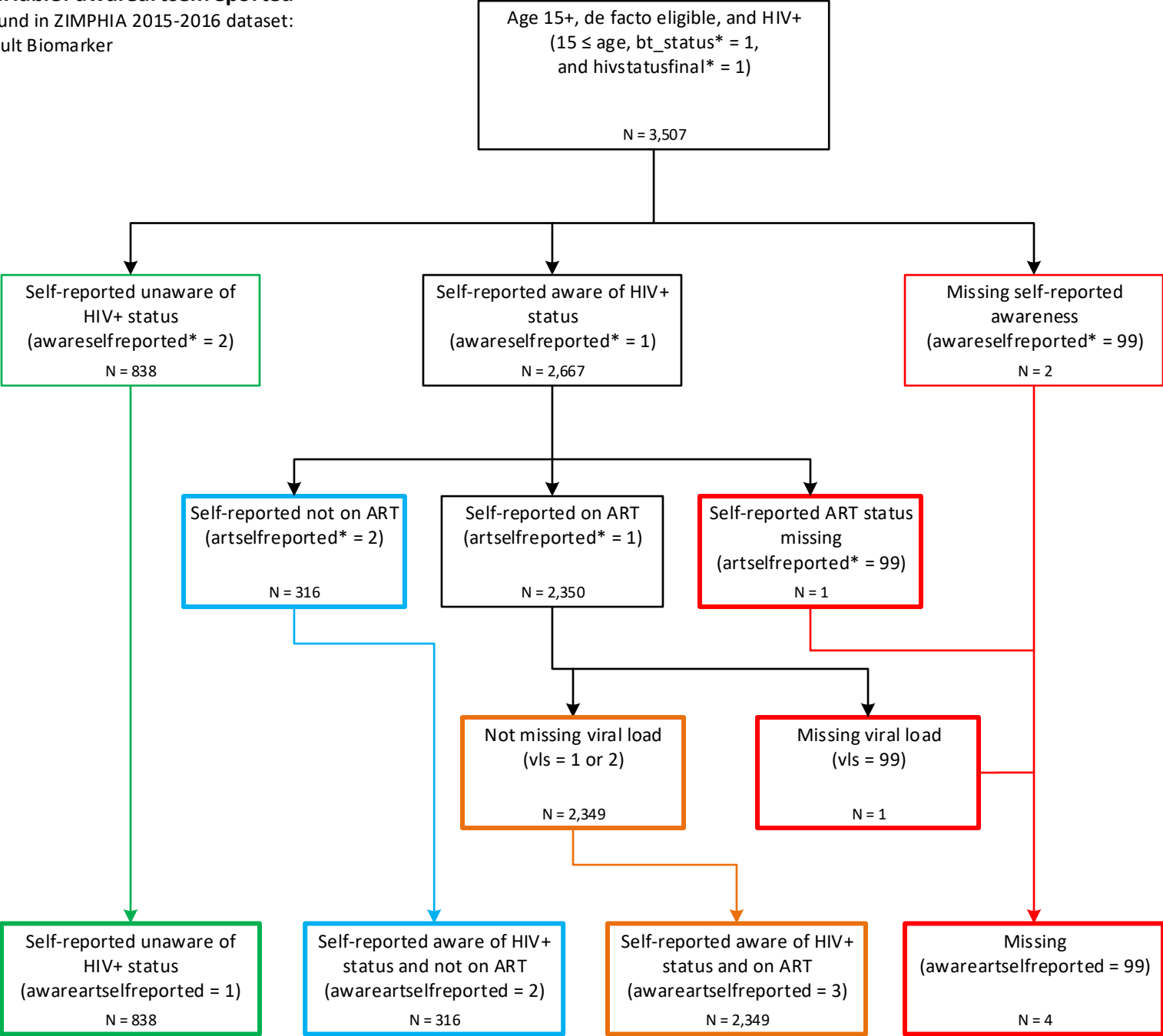
Uses the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

- age
- bt_status
- hivstatusfinal
- awareselfreported
- artselfreported
- arvstatus

Variable: awareartselfreported

Found in ZIMPHIA 2015-2016 dataset:
Adult Biomarker



Variable: awareartselfreported

Uses the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

age

bt_status

hivstatusfinal

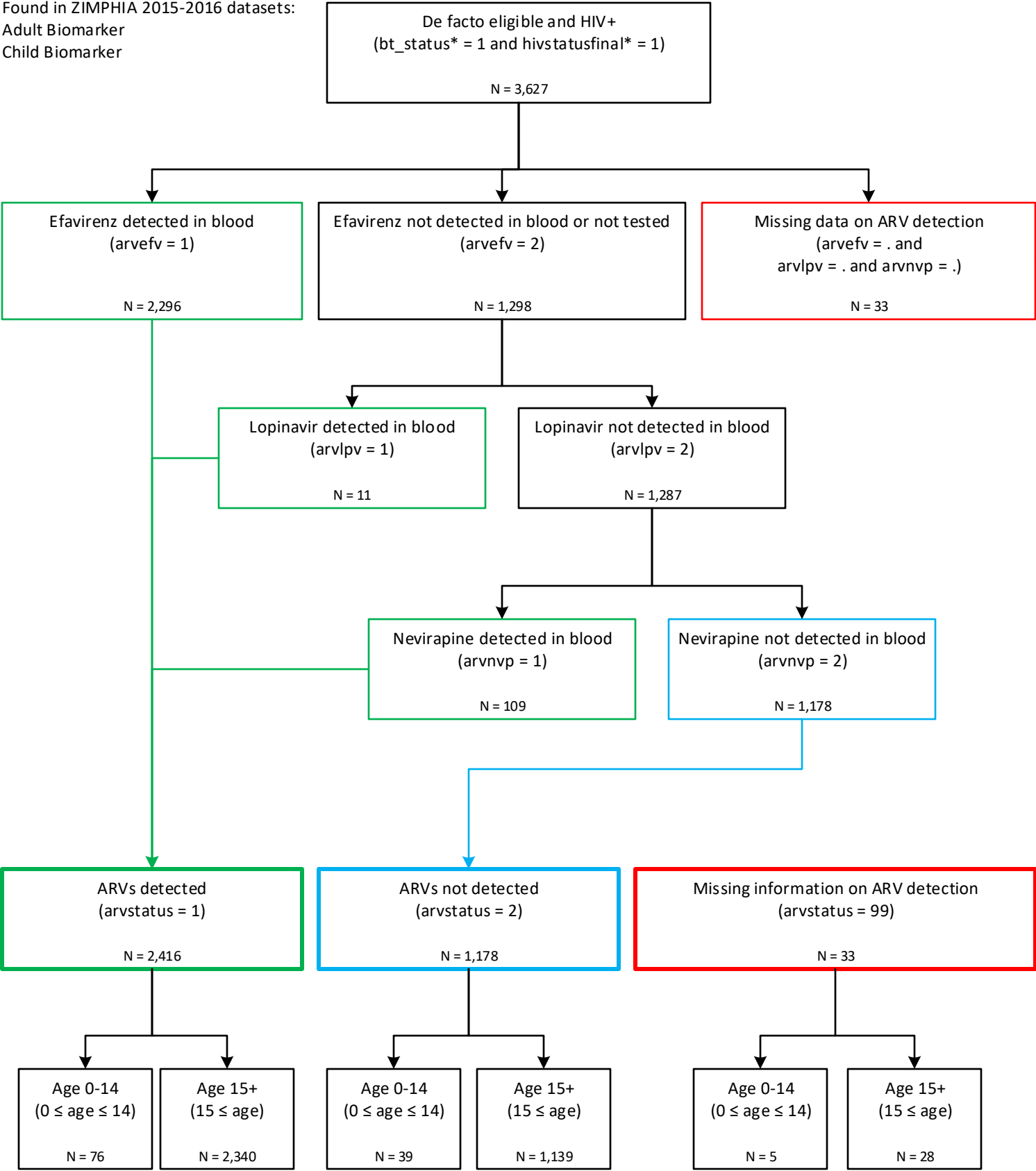
awareselfreported

artselfreported

vls

Variable: arvstatus

Found in ZIMPHIA 2015-2016 datasets:
Adult Biomarker
Child Biomarker



Variable: arvstatus

Uses the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

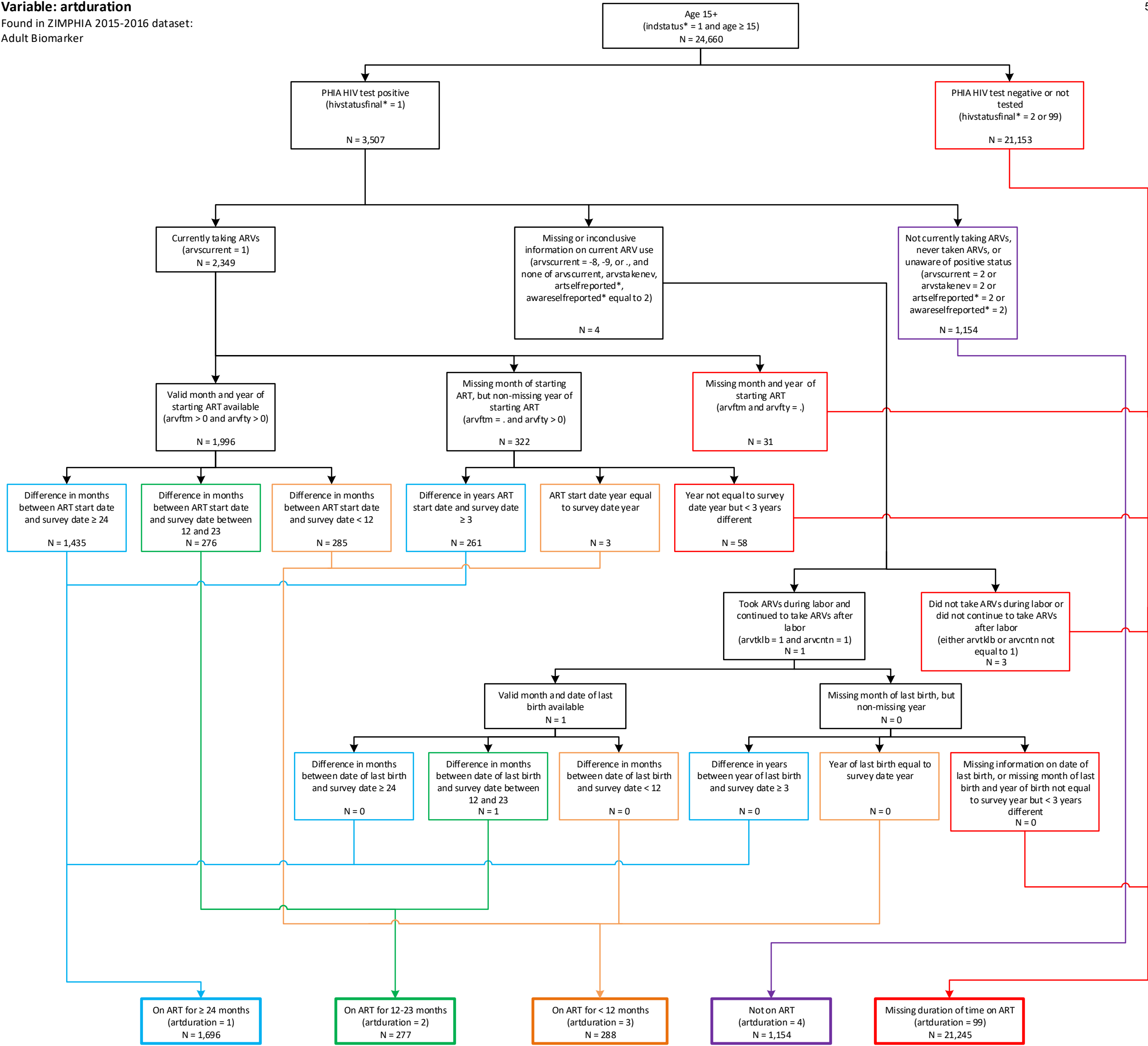
- age
- bt_status
- hivstatusfinal
- arvstatus
- arvatv
- arvefv
- arvlpv
- arvnvp

Child Biomarker dataset

- age
- bt_status
- hivstatusfinal
- arvstatus
- arvatv
- arvefv
- arvlpv
- arvnvp

Variable: artduration

Found in ZIMPHIA 2015-2016 dataset:
Adult Biomarker



Variable: artduration

Uses the following ZIMPHIA 2015-2016 variables:

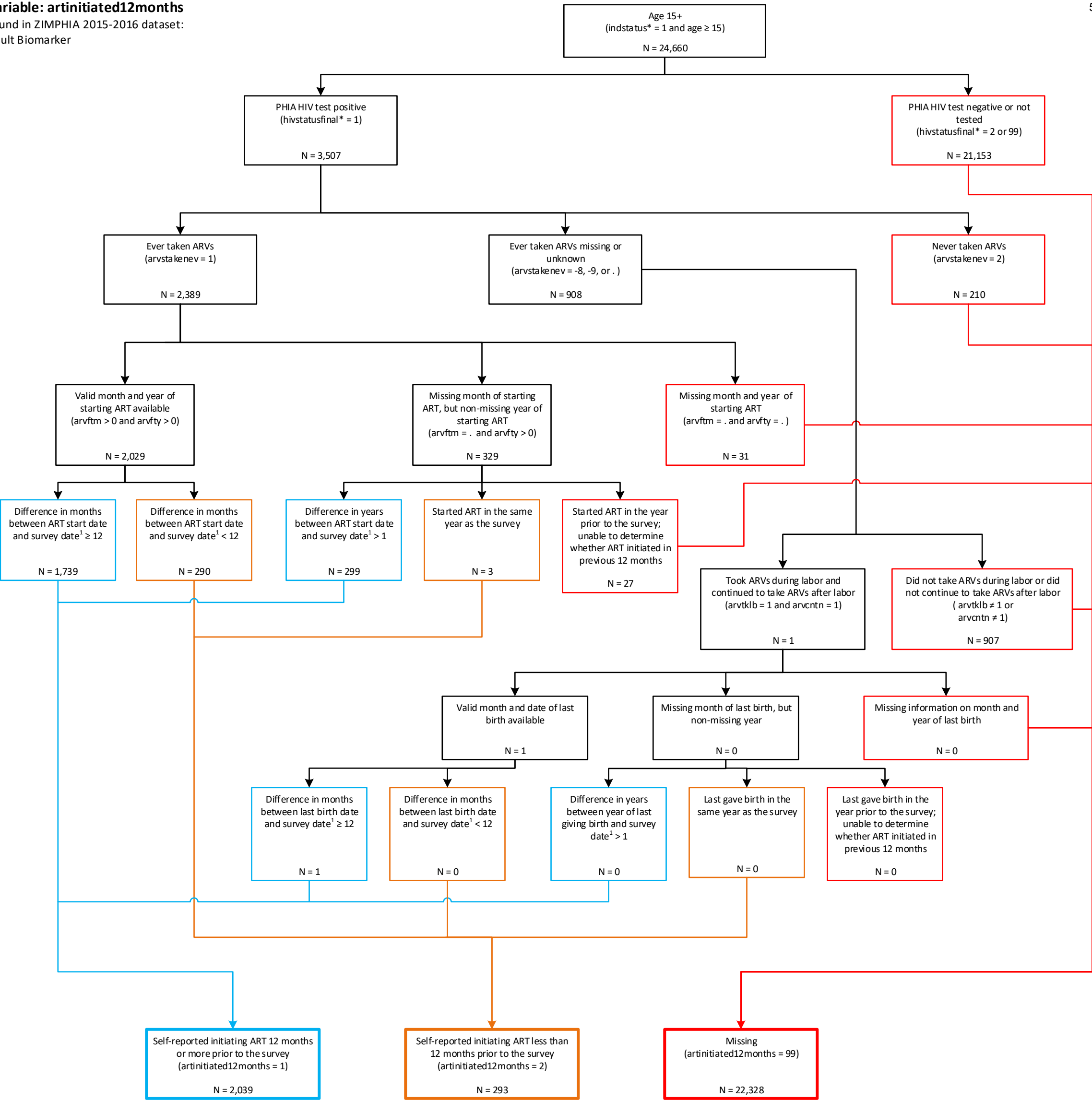
Adult Biomarker dataset

- age
- hivstatusfinal
- artselfreported
- awareselfreported

Adult Interview dataset

- indstatus
- arvcurrent
- arvstakenev
- arvftm
- arvfty
- arvtklb†
- arvcntn†

† Variable redacted from final dataset due to small counts



¹Survey date is derived from surveystday, surveystmonth and surveystyear.

Variable: artinitiated12months

Uses the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

- hivstatusfinal
- artinitiated12months

Adult Interview dataset

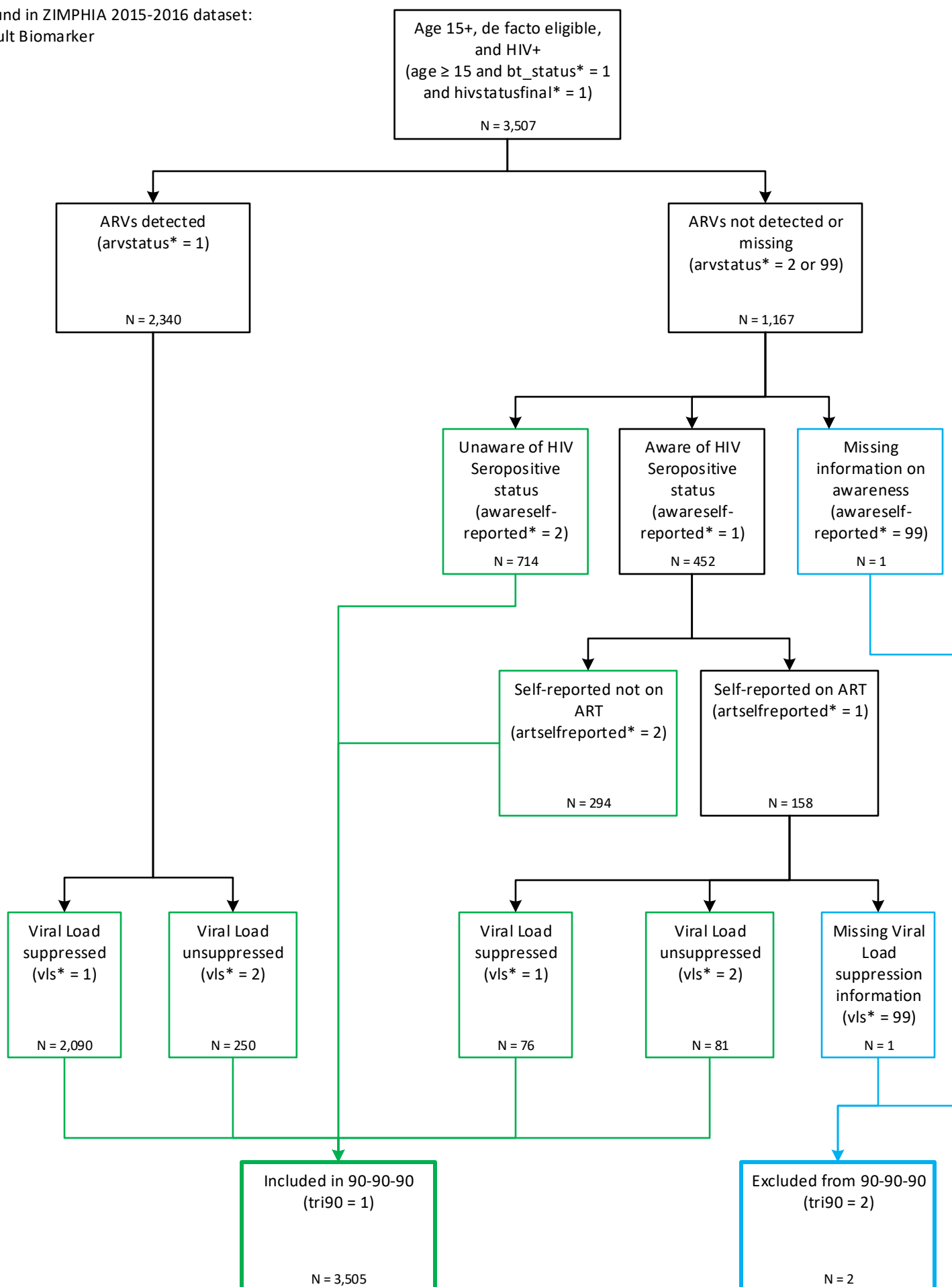
- age
- indstatus
- arvstakenev
- arvftm
- arvfty
- surveystday†
- surveystmonth
- surveystyear
- arvtklb†
- arvcntn†

† Variable redacted from final dataset due to small counts and disclosure risk

Variable: tri90

Found in ZIMPHIA 2015-2016 dataset:
Adult Biomarker

58



Variable: tri90

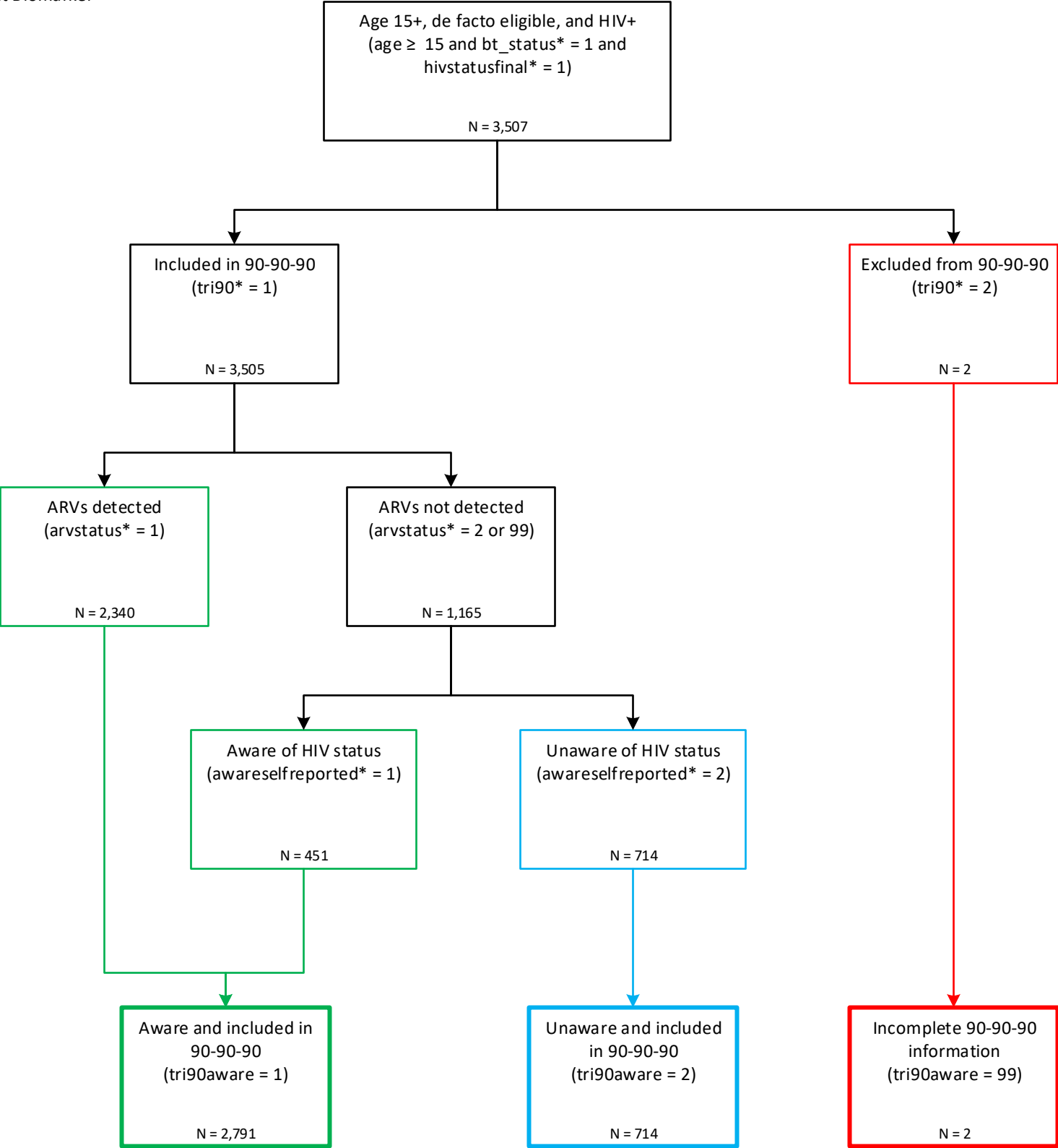
Uses the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

- age
- bt_status
- hivstatusfinal
- arvstatus
- awareselfreported
- artselfreported
- vl

Variable: tri90aware

Found in ZIMPHIA 2015-2016 dataset:
Adult Biomarker



Variable: tri90aware

Uses the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

age

bt_status

hivstatusfinal

tri90

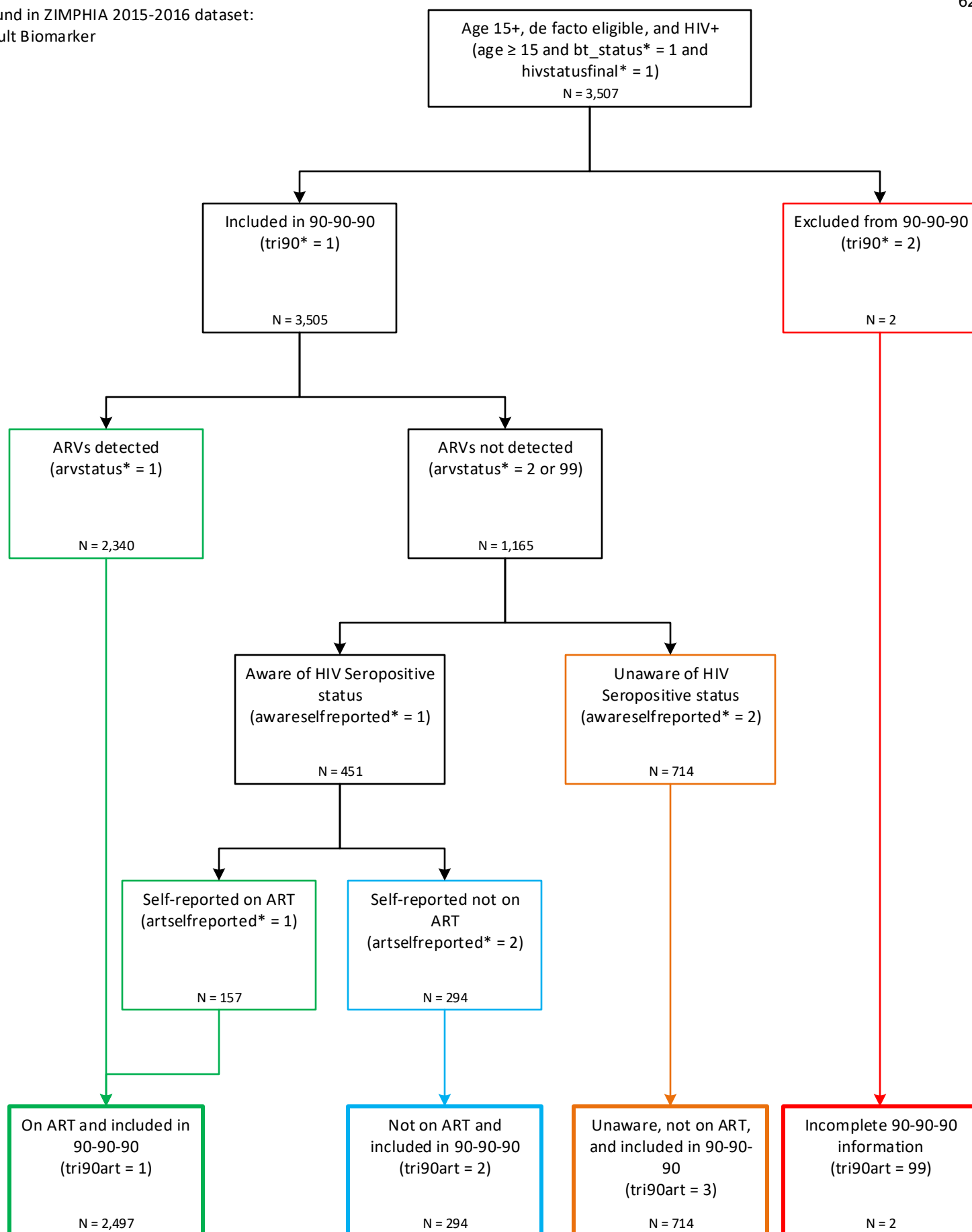
arvstatus

aware

Variable: tri90art

Found in ZIMPHIA 2015-2016 dataset:
Adult Biomarker

62



Variable: tri90art

Uses the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

age

bt_status

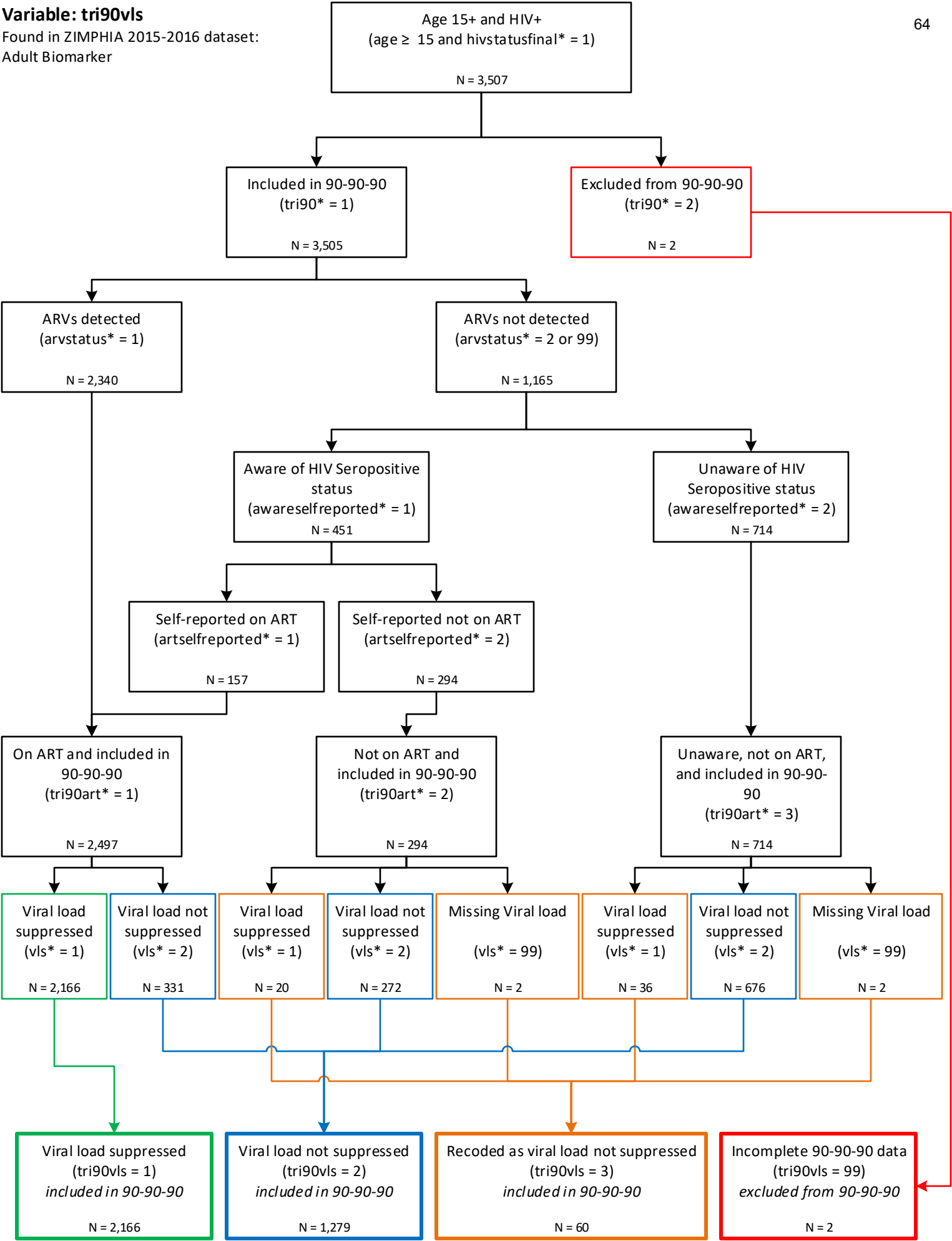
hivstatusfinal

tri90

arvstatus

awareselfreported

artselfreported



Variable: tri90vls

Uses the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

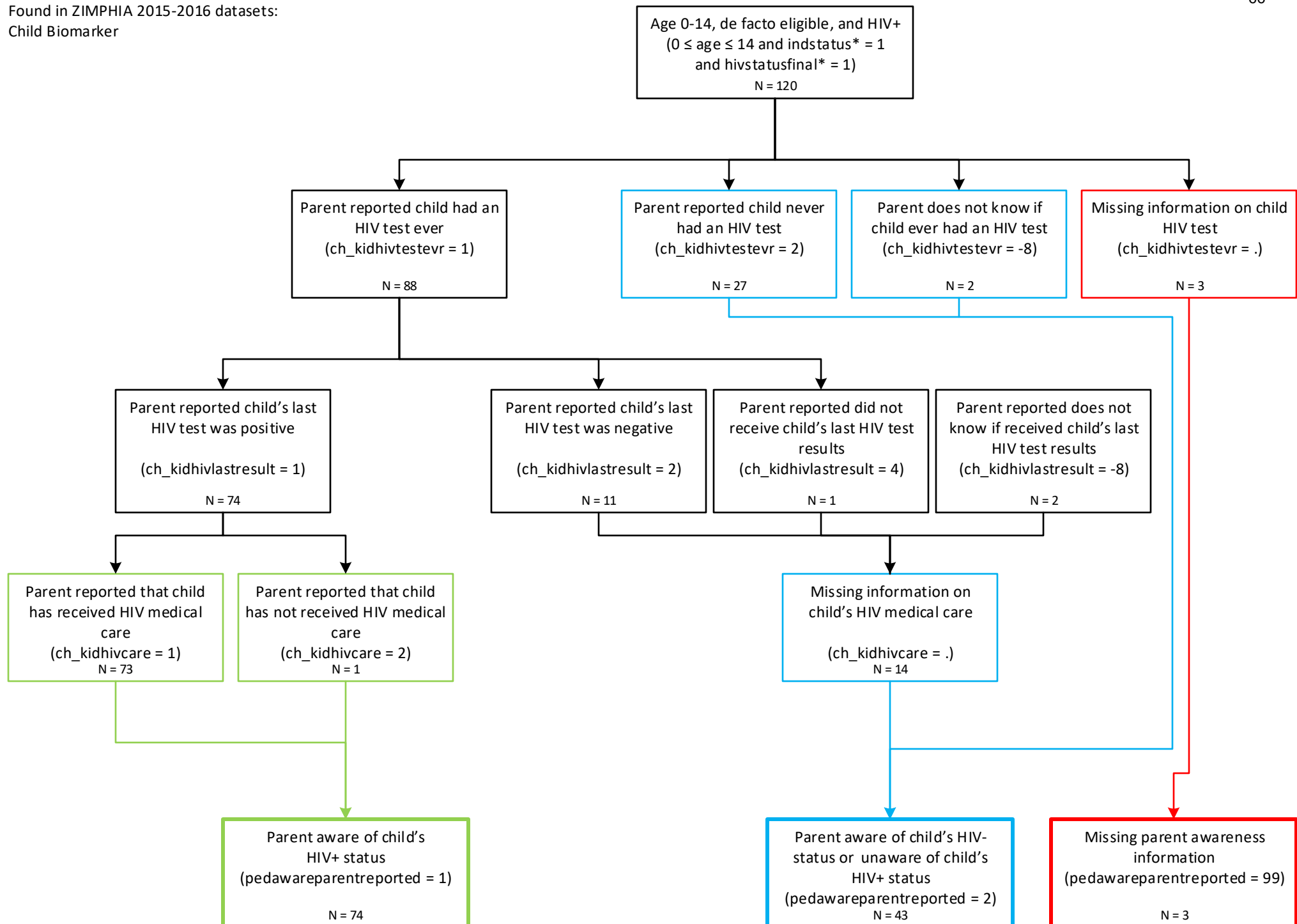
- age
- bt_status
- hivstatusfinal
- tri90
- arvstatus
- awareselfreported
- artselfreported
- tri90art
- vls

Variable: pedawareparentreported

Found in ZIMPHIA 2015-2016 datasets:

Child Biomarker

66



Variable: pedawareparentreported

Uses the following ZIMPHIA 2015-2016 variables:

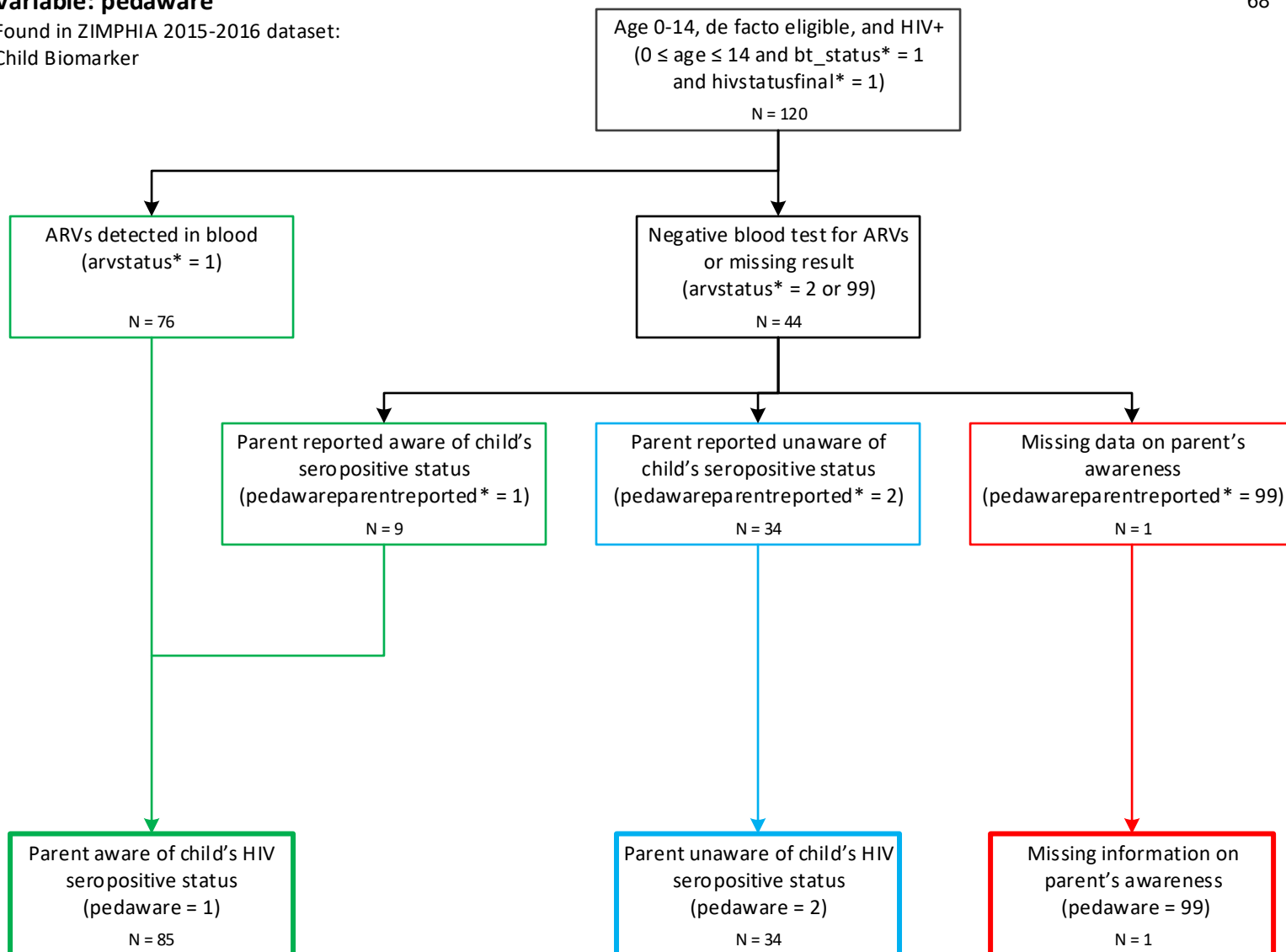
Child Interview dataset

- age
- indstatus
- hivstatusfinal
- ch_kidhivtestevr
- ch_kidhivlastresult
- ch_kidhivcare

Variable: pedaware

Found in ZIMPHIA 2015-2016 dataset:
Child Biomarker

68



Variable: pedaware

Uses the following ZIMPHIA 2015-2016 variables:

Child Biomarker dataset

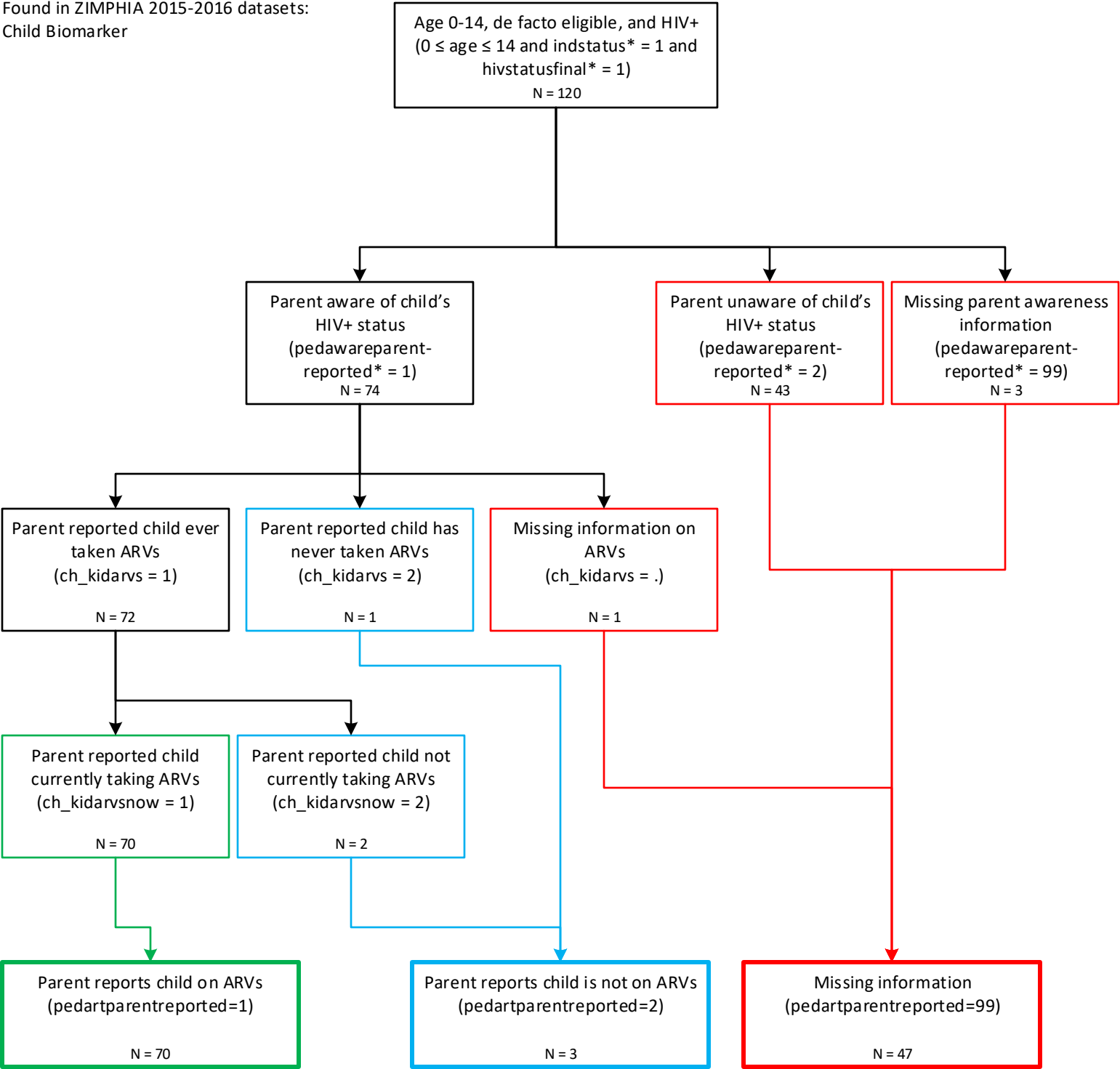
hivstatusfinal

bt_status

age

pedawareparentreported

arvstatus



Variable: pedartparentreported

Uses the following ZIMPHIA 2015-2016 variables:

Child Interview dataset

age

indstatus

hivstatusfinal

ch_kidarvs

ch_kidarvsnow

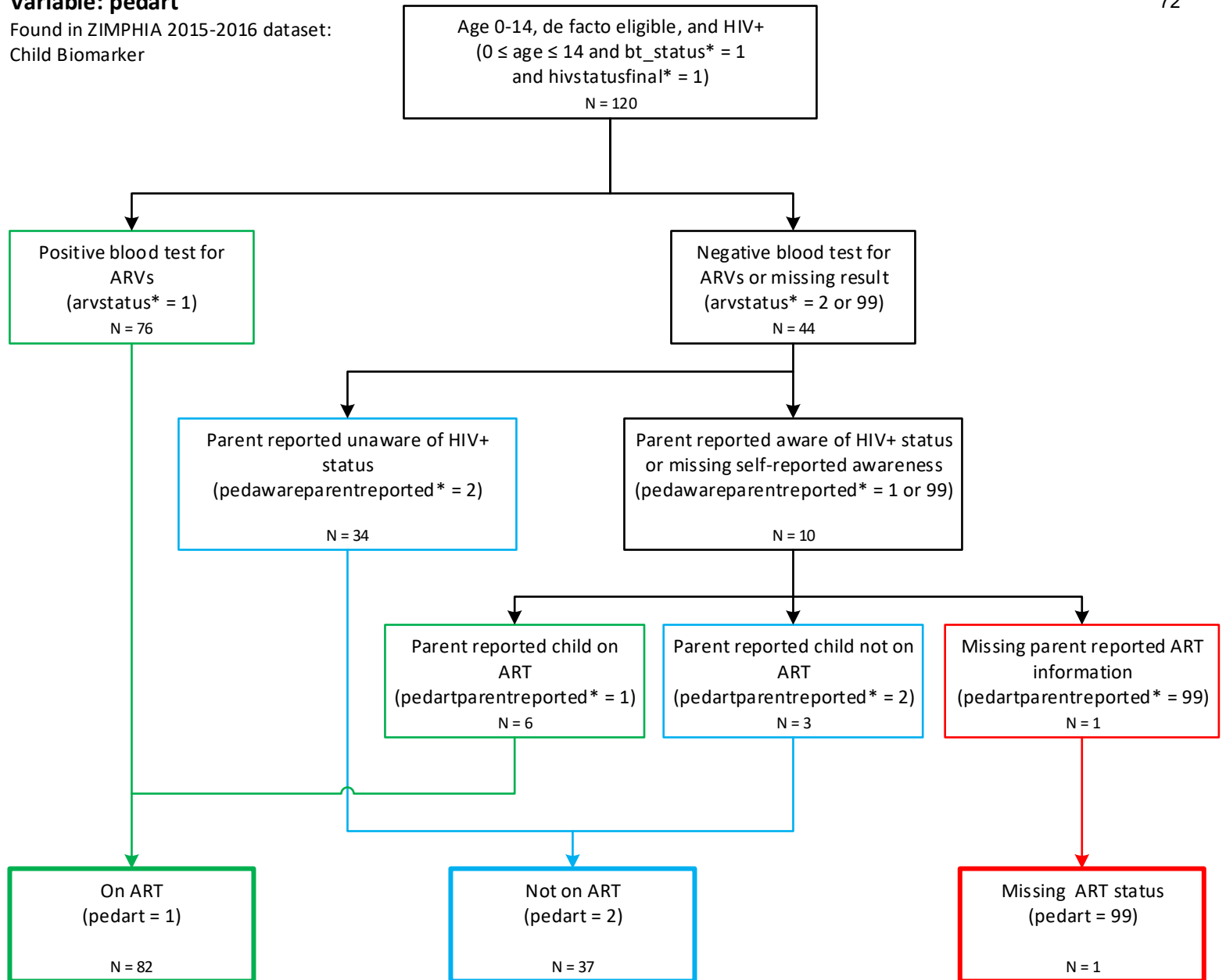
Child Biomarker dataset

pedawareparentreported

Variable: pedart

Found in ZIMPHIA 2015-2016 dataset:
Child Biomarker

72



Variable: pedart

Uses the following ZIMPHIA 2015-2016 variables:

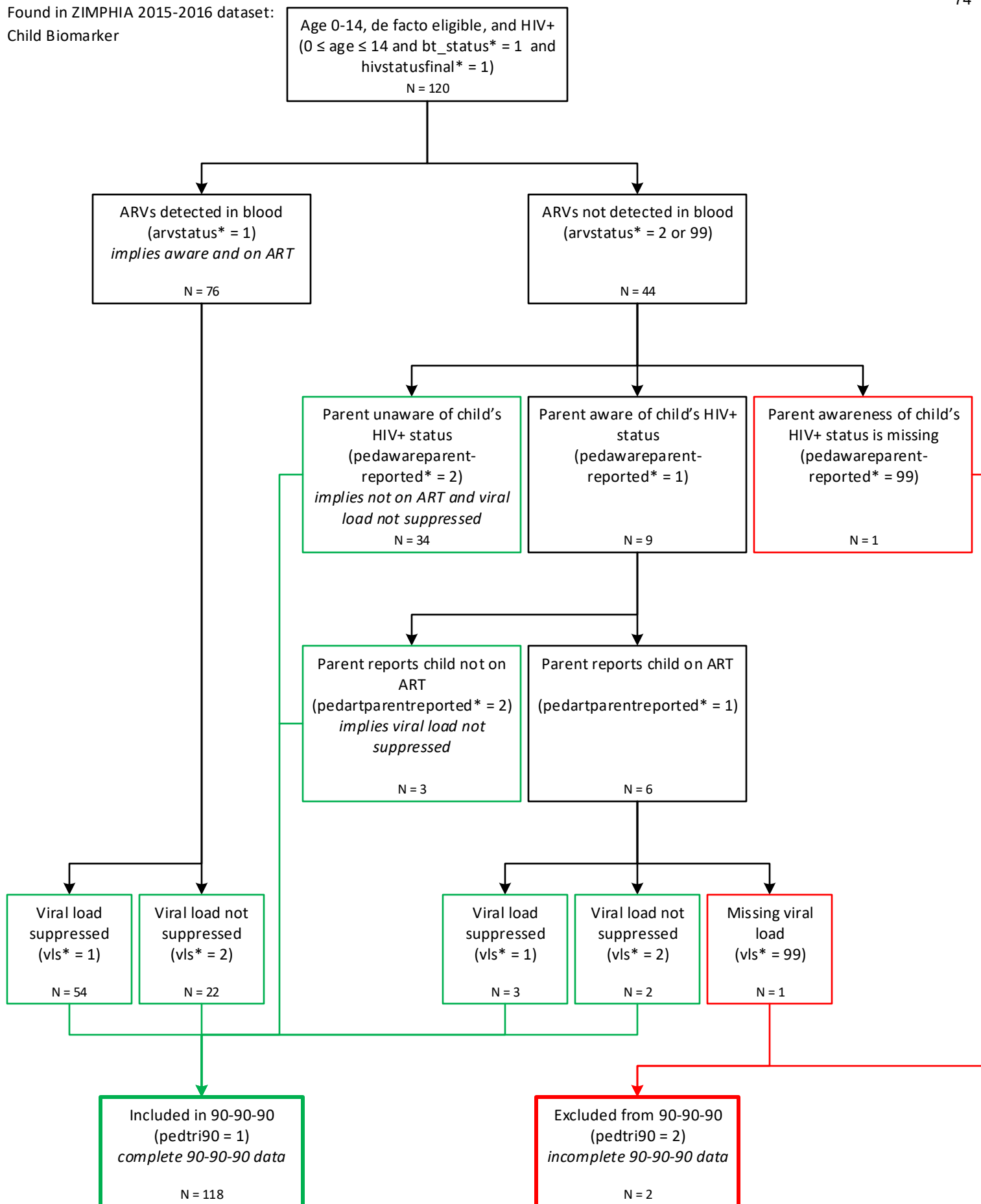
Child Biomarker dataset

- age
- bt_status
- hivstatusfinal
- pedawareparentreported
- pedartparentreported
- arvstatus

Variable: pedtri90

Found in ZIMPHIA 2015-2016 dataset:
Child Biomarker

74



Variable: pedtri90

Uses the following ZIMPHIA 2015-2016 variables:

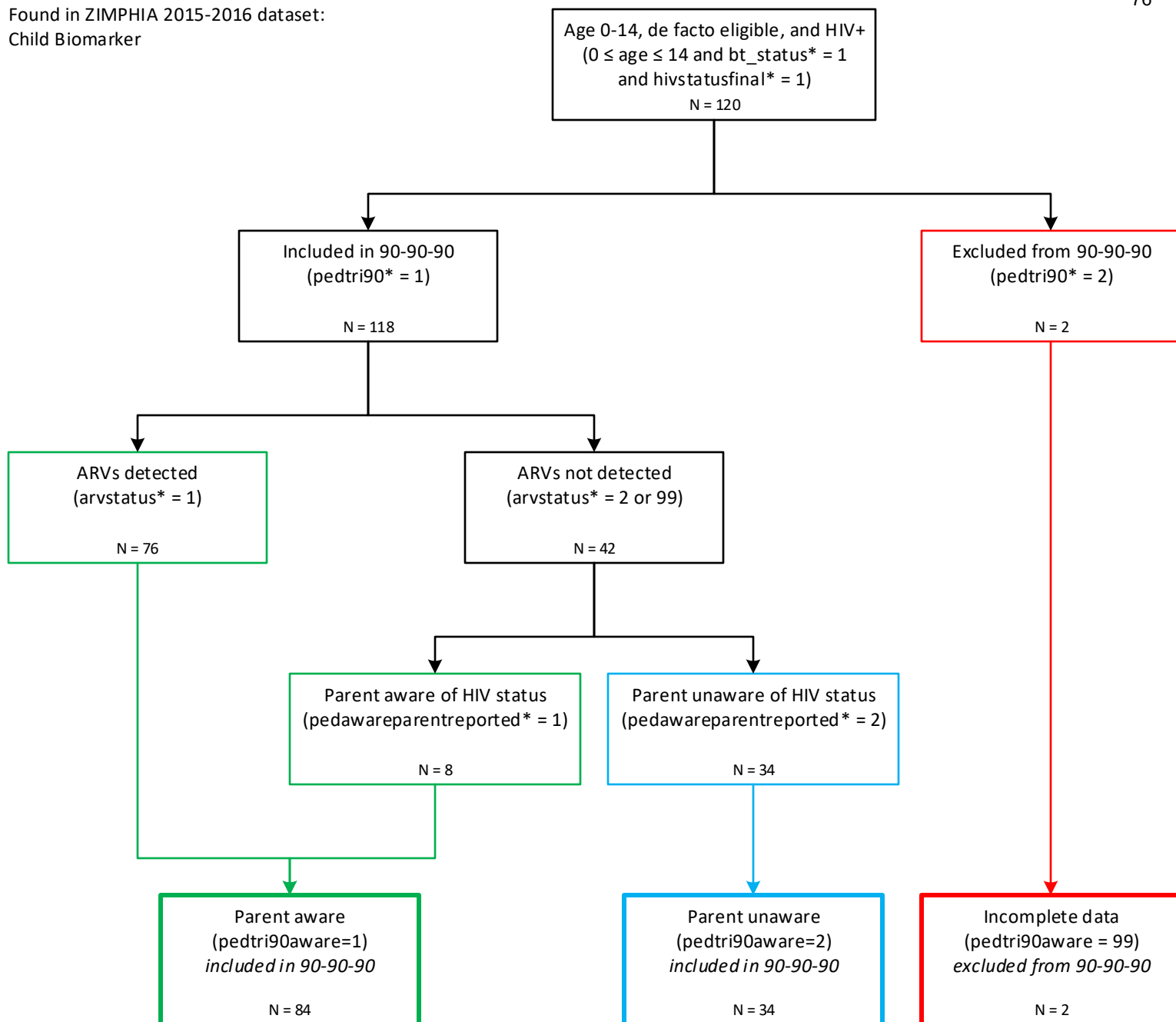
Child Biomarker dataset

- age
- bt_status
- hivstatusfinal
- arvstatus
- pedawareparentreported
- pedartparentreported
- vls

Variable: pedtri90aware

Found in ZIMPHIA 2015-2016 dataset:
Child Biomarker

76



Variable: pedtri90aware

Uses the following ZIMPHIA 2015-2016 variables:

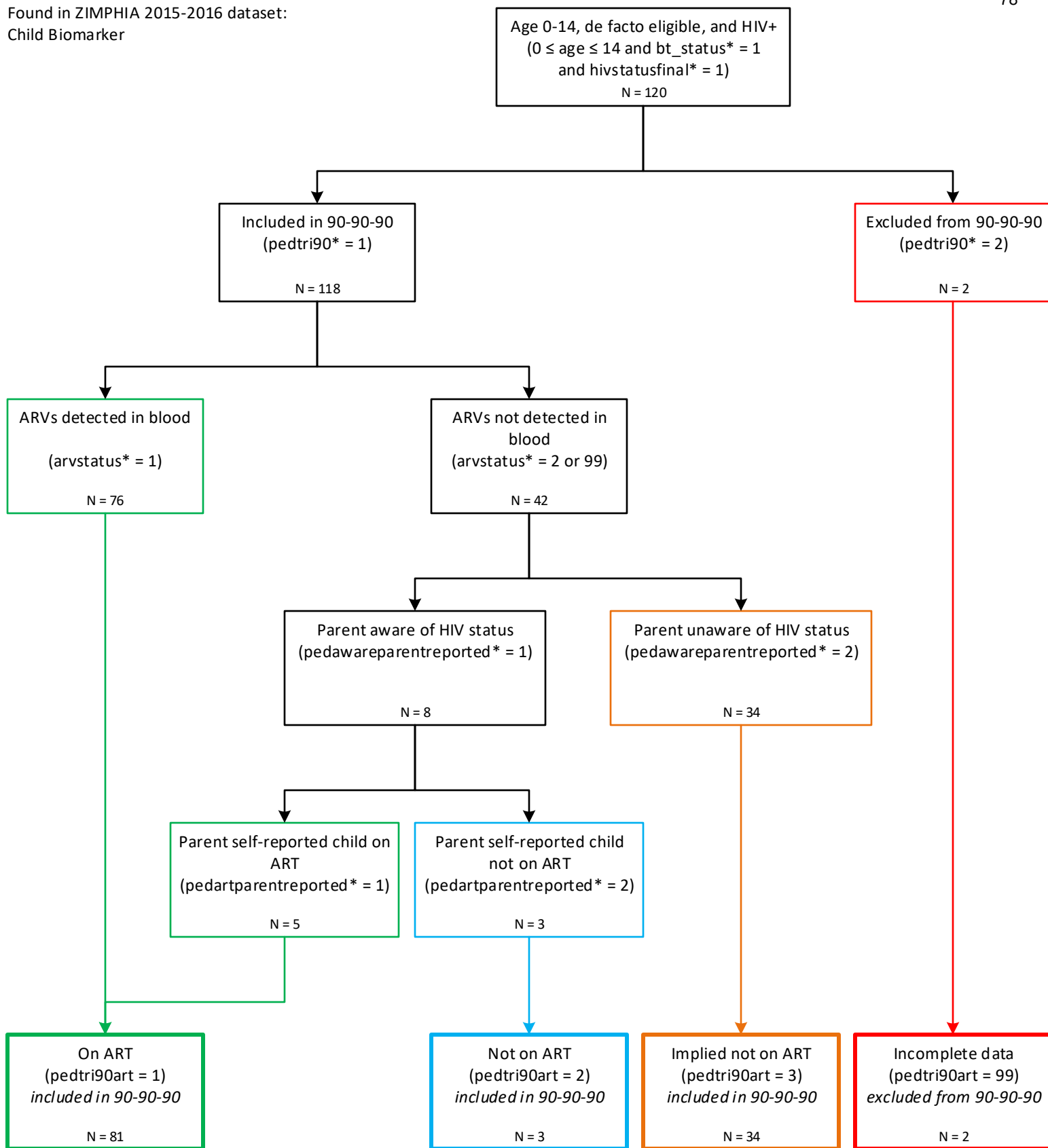
Child Biomarker dataset

- age
- bt_status
- hivstatusfinal
- pedtri90
- arvstatus
- pedawareparentreported

Variable: pedtri90art

Found in ZIMPHIA 2015-2016 dataset:
Child Biomarker

78



Variable: pedtri90art

Uses the following ZIMPHIA 2015-2016 variables:

Child Biomarker dataset

age

bt_status

hivstatusfinal

pedtri90

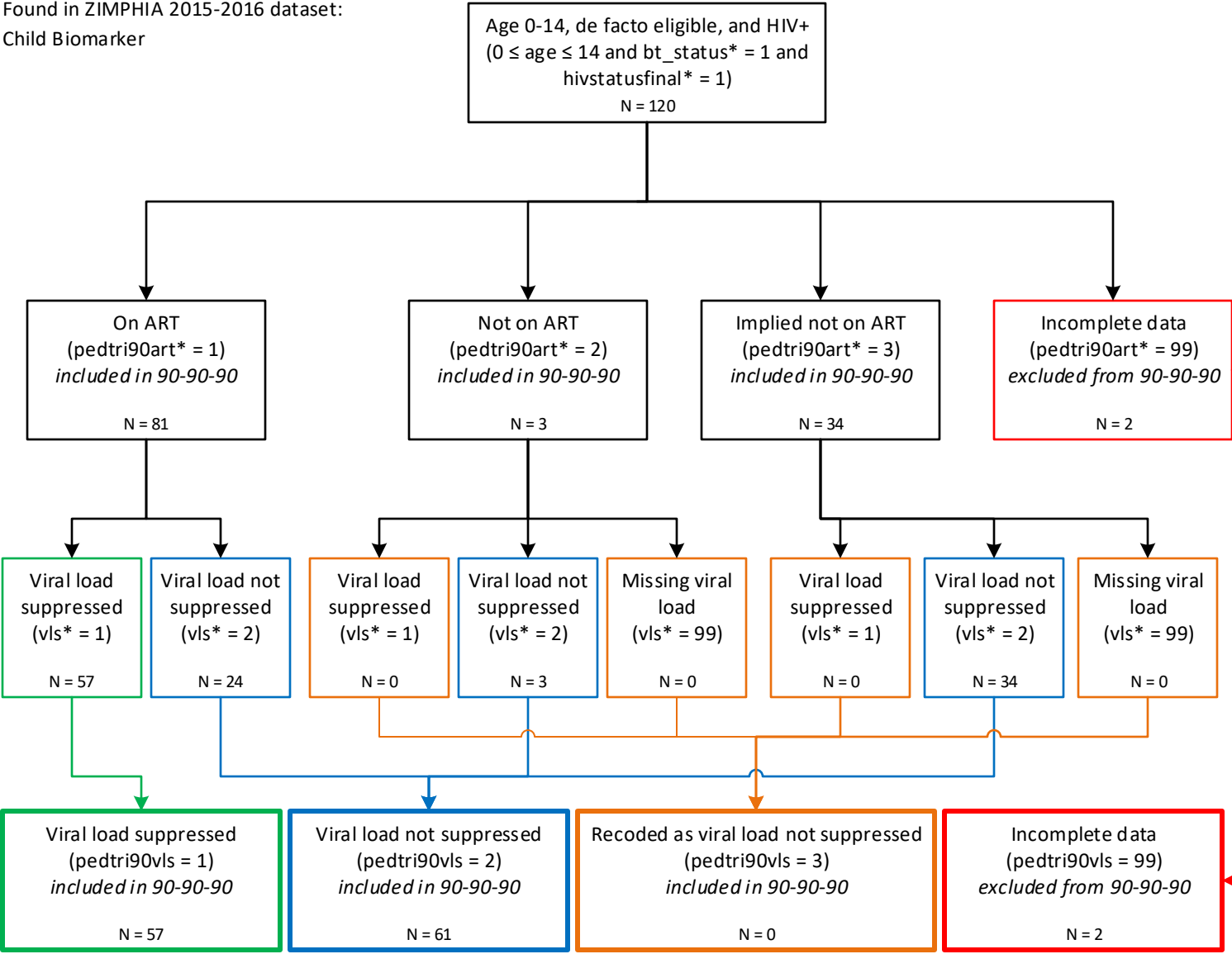
arvstatus

pedawareparentreported

pedartparentreported

Variable: **pedtri90vls**

Found in ZIMPHIA 2015-2016 dataset:
Child Biomarker



Variable: pedtri90vls

Uses the following ZIMPHIA 2015-2016 variables:

Child Biomarker dataset

age

bt_status

hivstatusfinal

pedtri90art

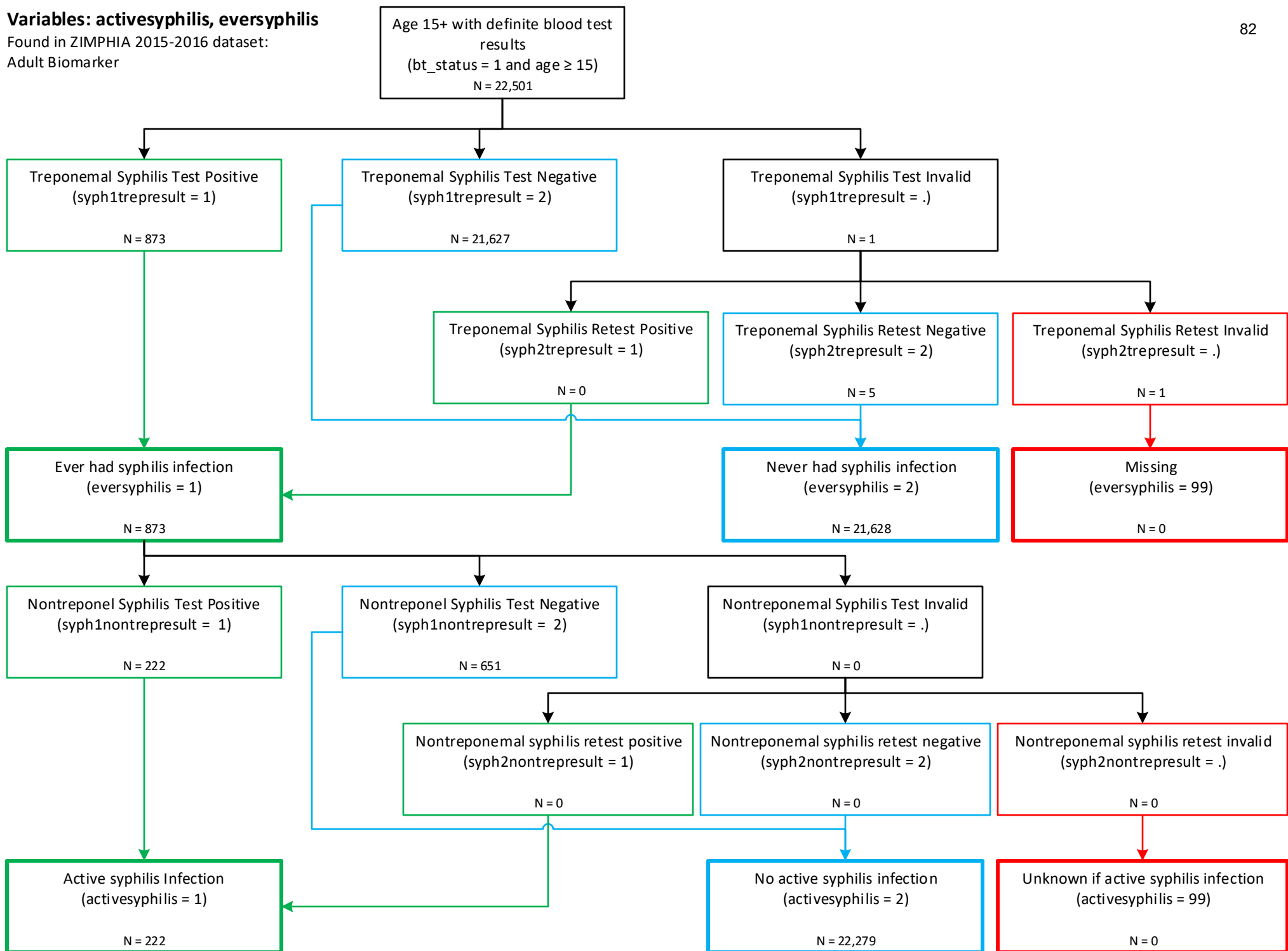
vls

Variables: activesyphilis, eversyphilis

Found in ZIMPHIA 2015-2016 dataset:

Adult Biomarker

82



Variables: activesyphilis, eversyphilis

Use the following ZIMPHIA 2015-2016 variables:

Adult Biomarker dataset

age

bt_status

syph1trepresult

syph2trepresult

syph1nontrepresult

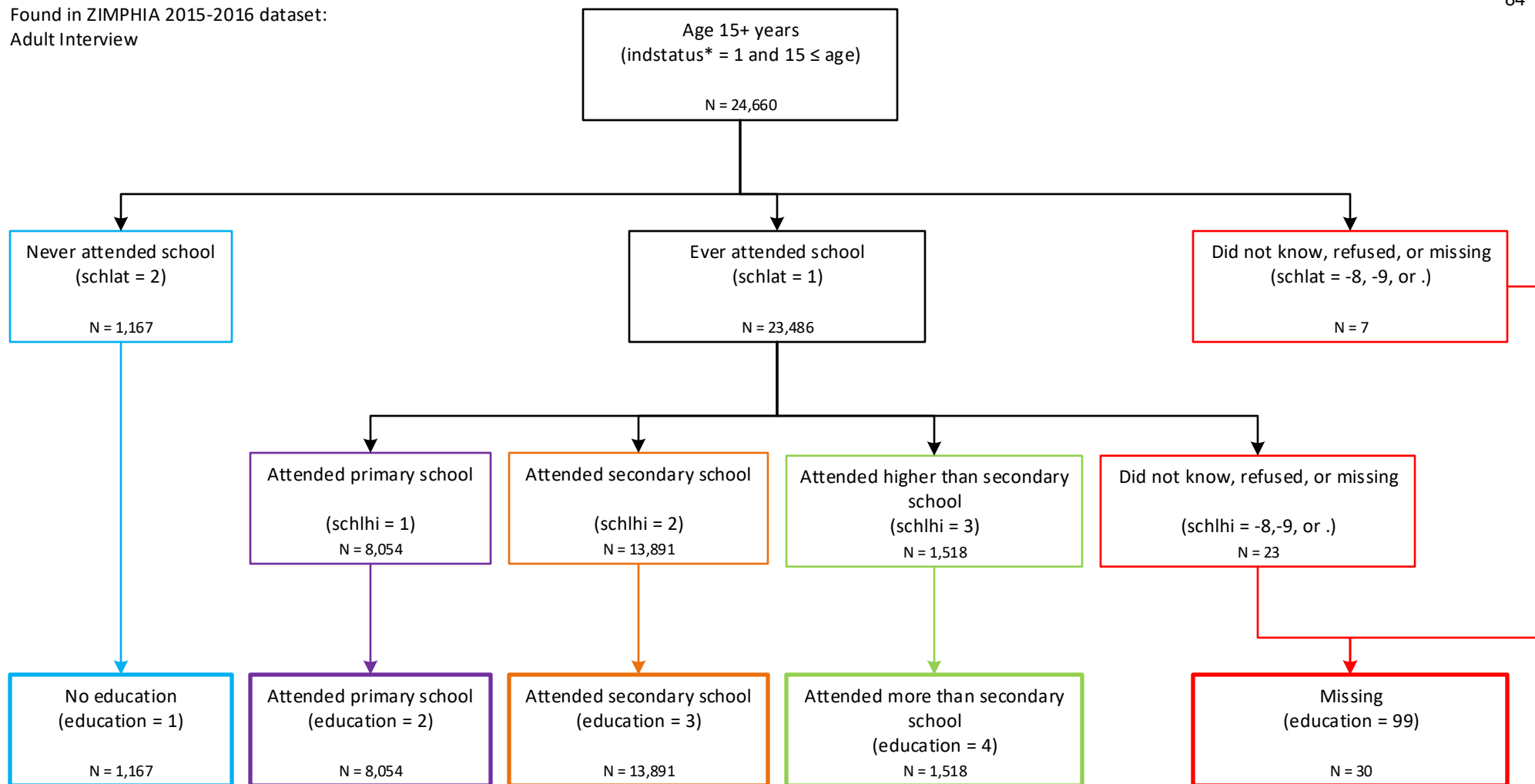
syph2nontrepresult

Variable: education

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

84



Variable: education

Uses the following ZIMPHIA 2015-2016 variables :

Adult Interview dataset

age

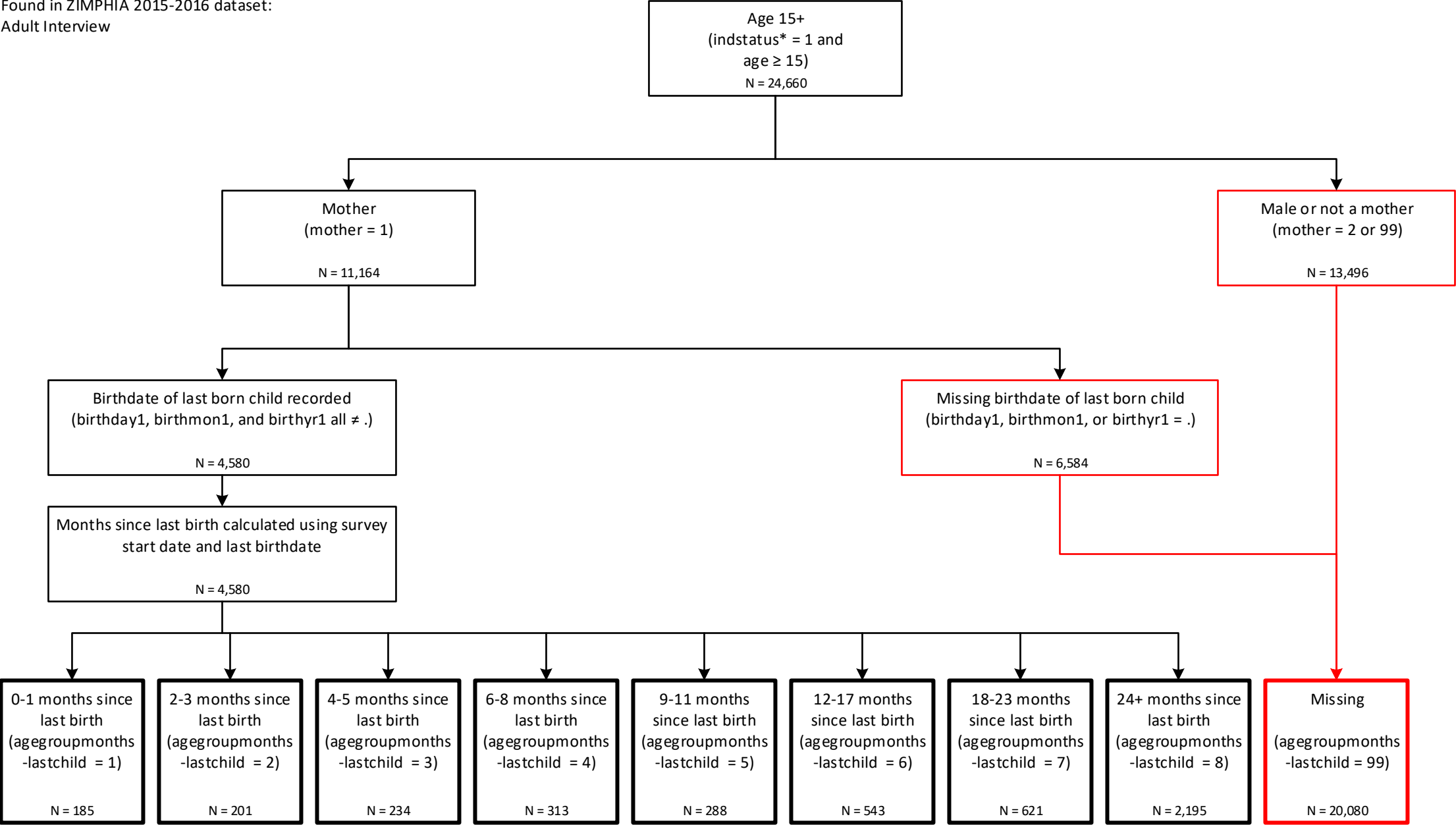
indstatus

schlat

schlhi

Variable: **agegroupmonthslastchild**

Found in ZIMPHIA 2015-2016 dataset:
Adult Interview



Variable: agegroupmonthslastchild

Uses the following ZIMPHIA 2015-2016 variables:

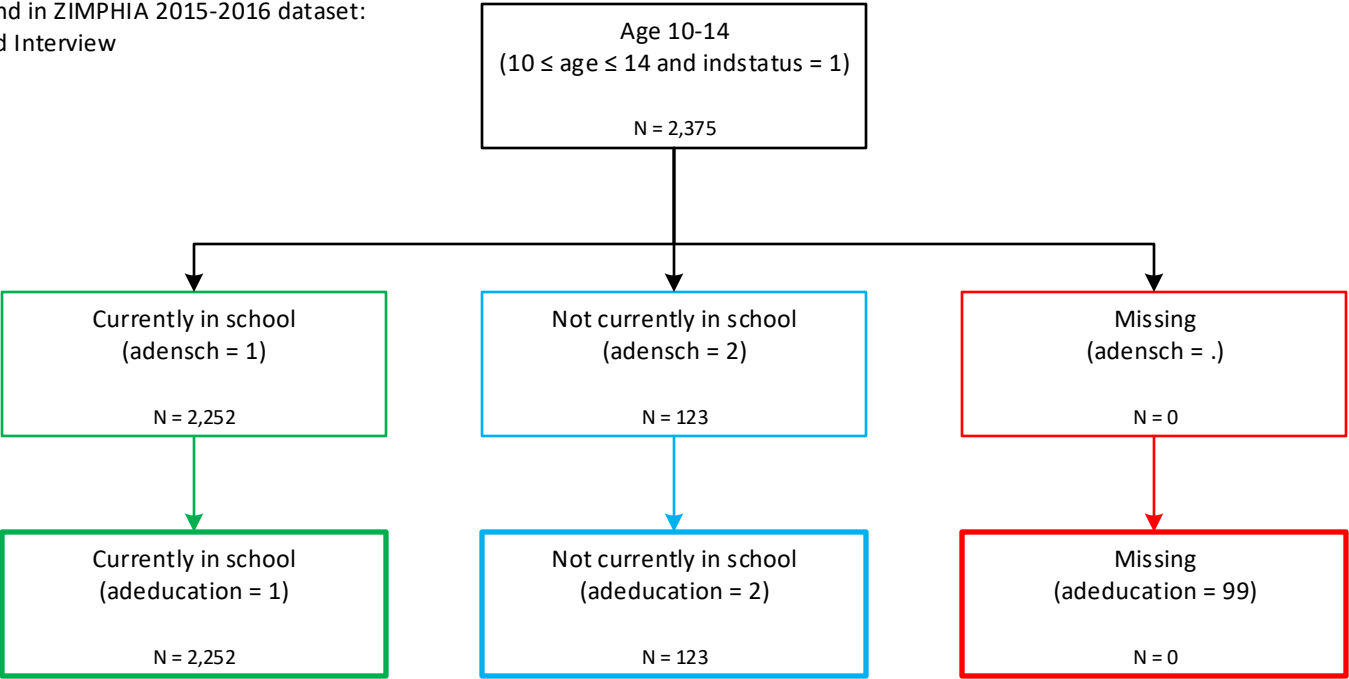
Adult Interview dataset

- age
- indstatus
- mother
- birthday1†
- birthmon1
- birthyr1
- surveystday†
- surveystmonth
- surveystyear

† Variable redacted from final dataset due to small counts and disclosure risk

Survey start date is derived from surveystday, surveystmonth, and surveystyear

Birth dates are derived from birthday, birthmon, and birthyr.



Variable: adeducation

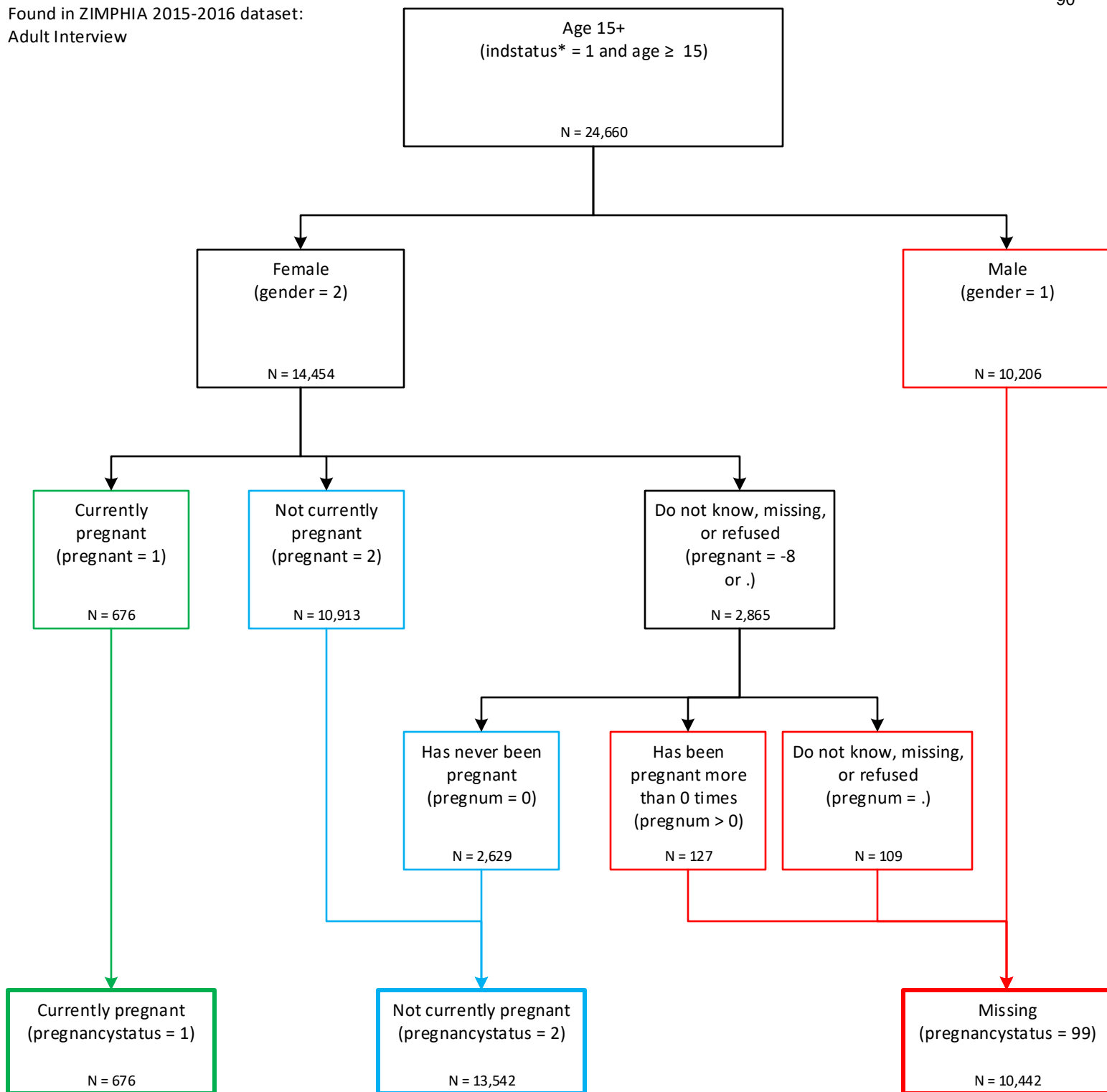
Uses the following ZIMPHIA 2015-2016
variables:
Child Interview dataset
age
indstatus
adensch

Variable: pregnancystatus

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

90



Variable: pregnancystatus

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

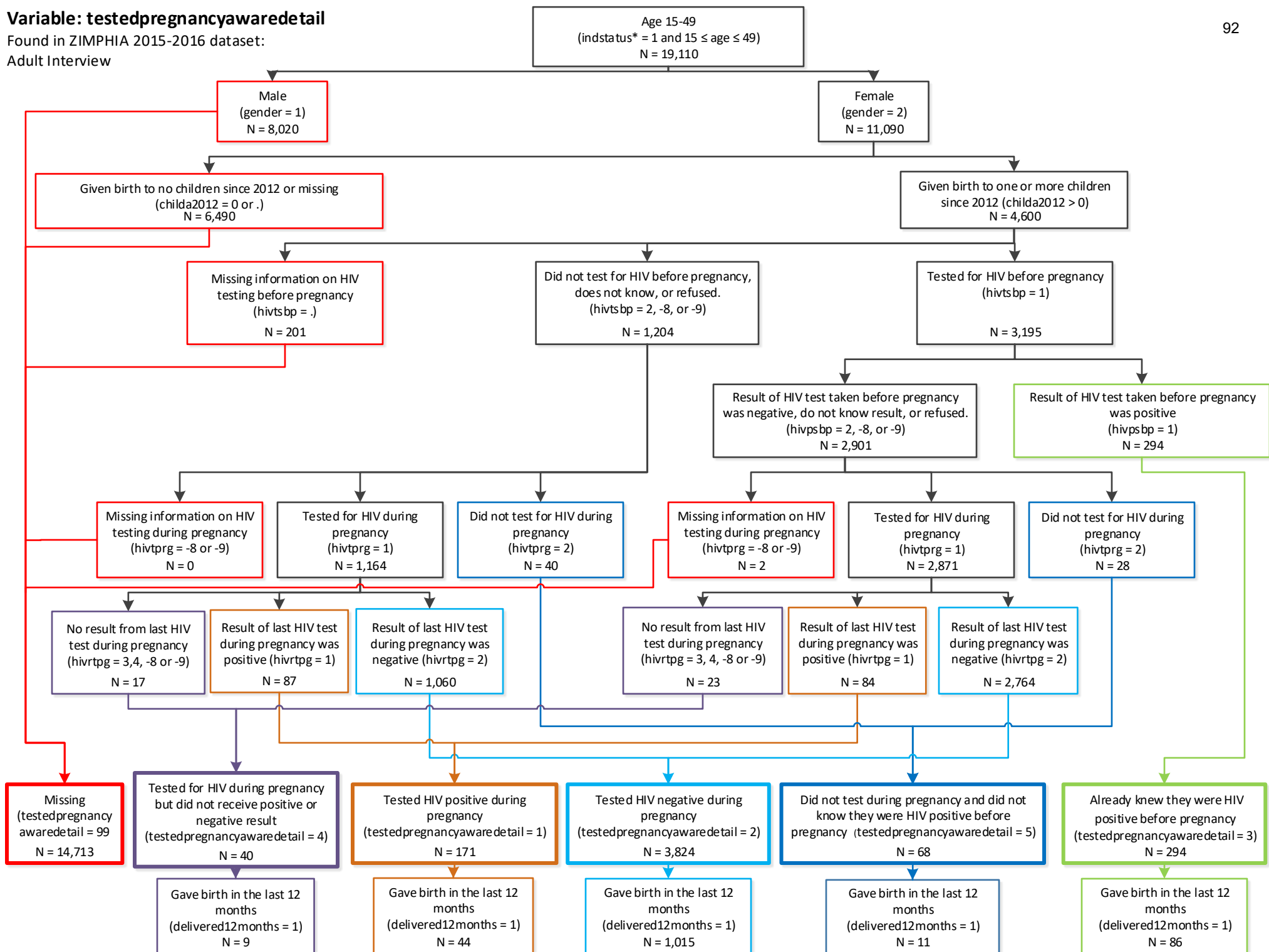
- age
- indstatus
- gender
- pregnant
- pregnum
- pregnancystatus

Variable: testedpregnancyawaredetail

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

92



Variable: testedpregnancyawaredetail

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

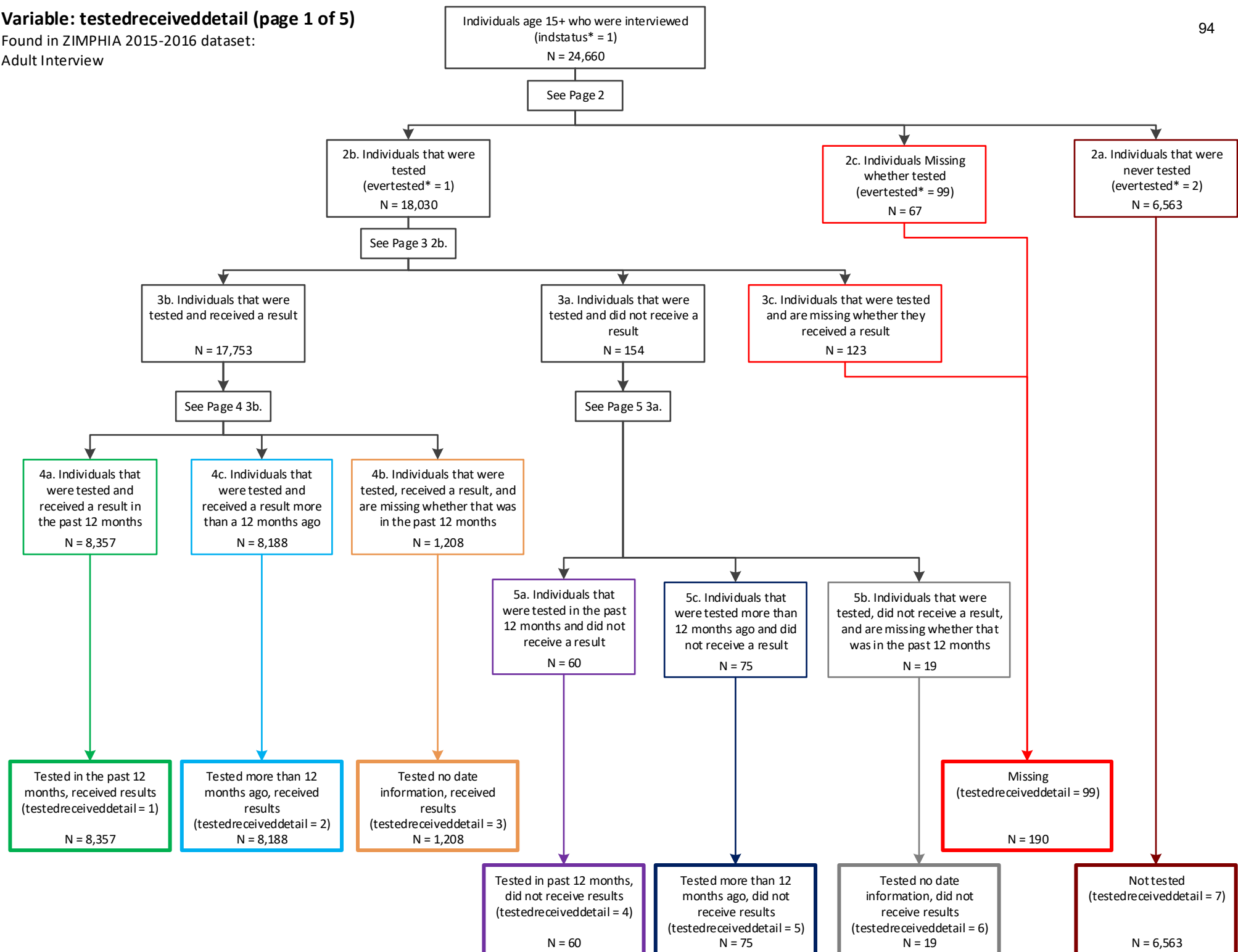
- age
- indstatus
- gender
- childa2012
- hivtsbp
- hivpsbp
- hivtprg
- hivrtpg
- delivered12months

Variable: testedreceiveddetail (page 1 of 5)

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

94

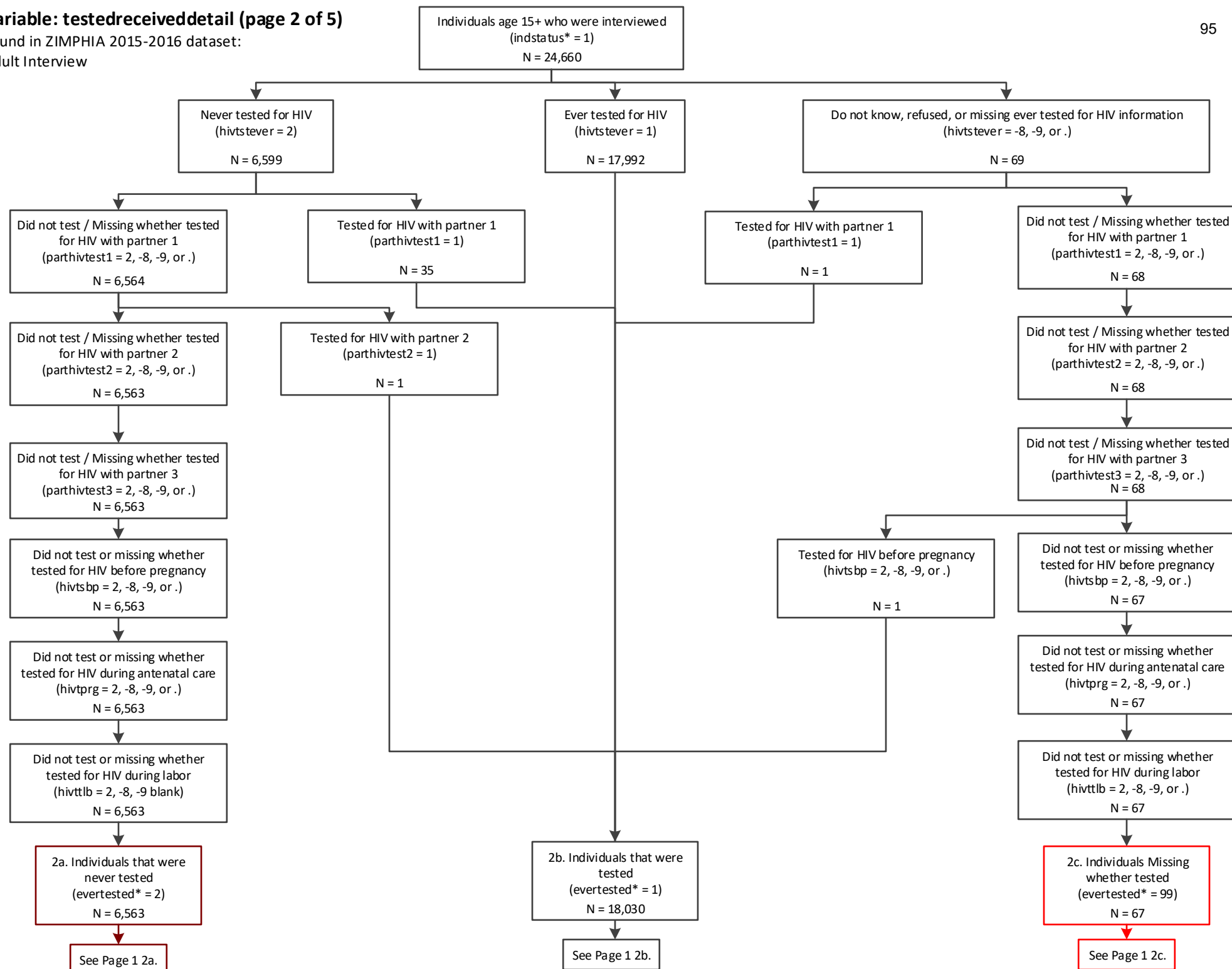


Variable: testedreceiveddetail (page 2 of 5)

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

95

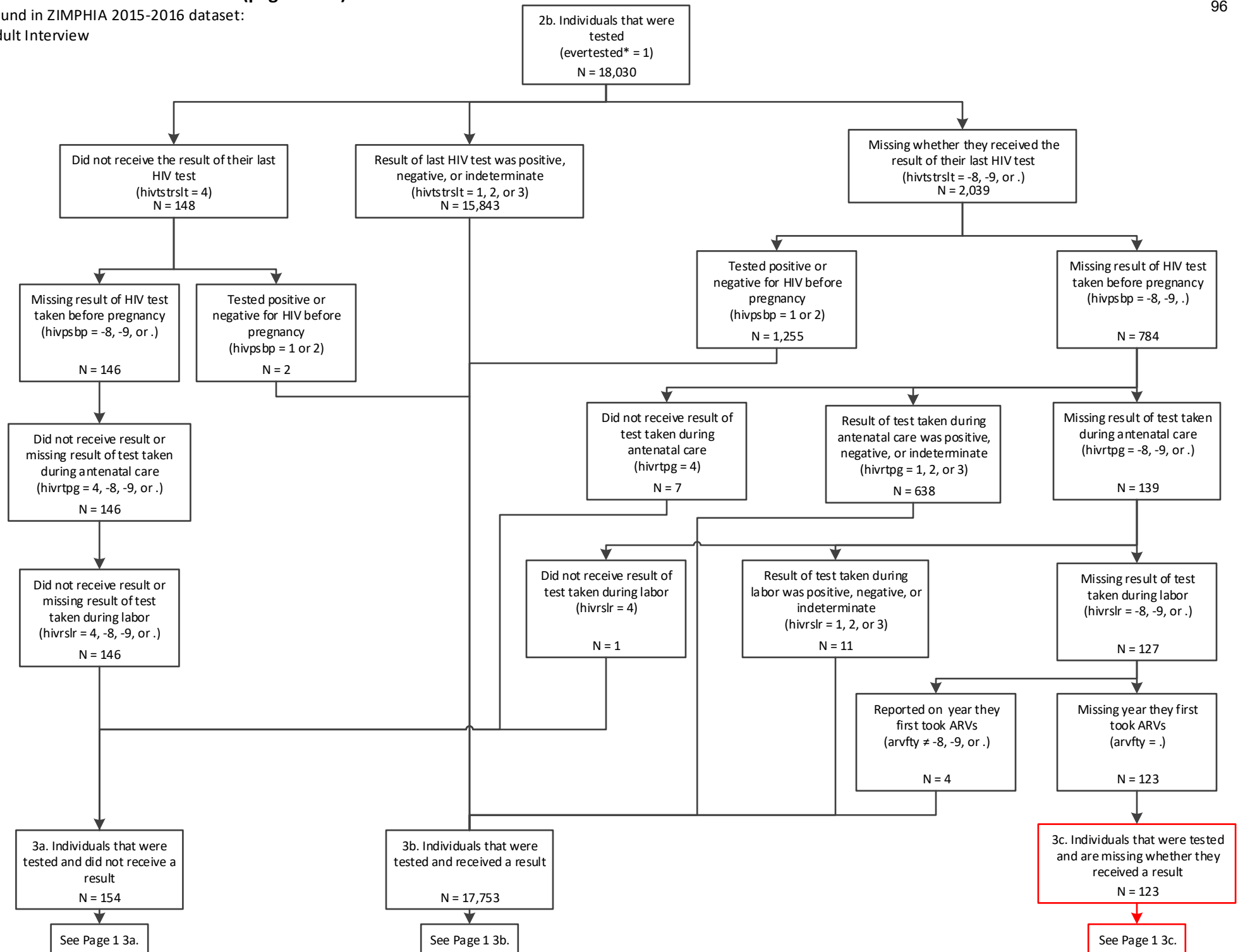


Variable: testedreceiveddetail (page 3 of 5)

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

96

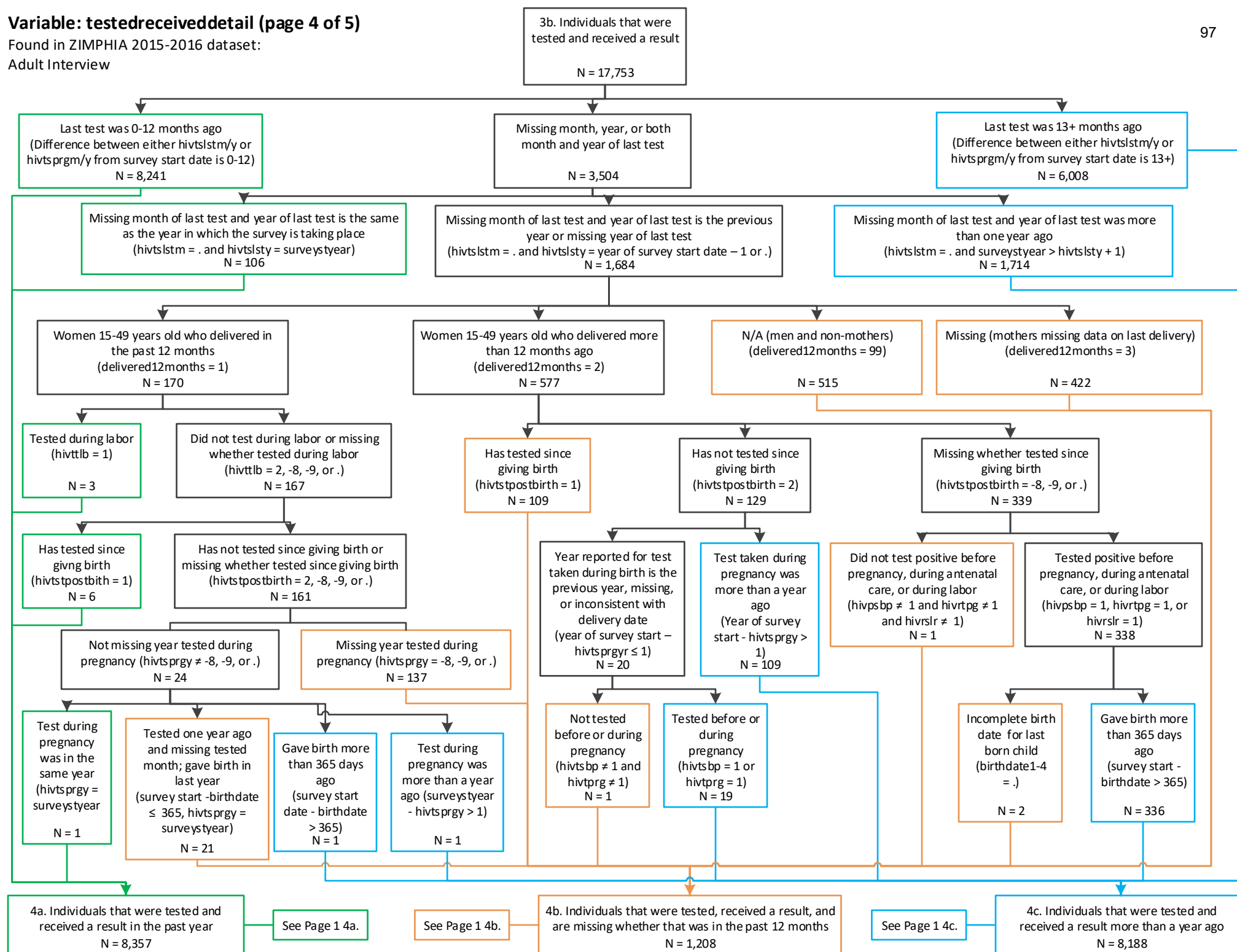


Variable: testedreceiveddetail (page 4 of 5)

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

97

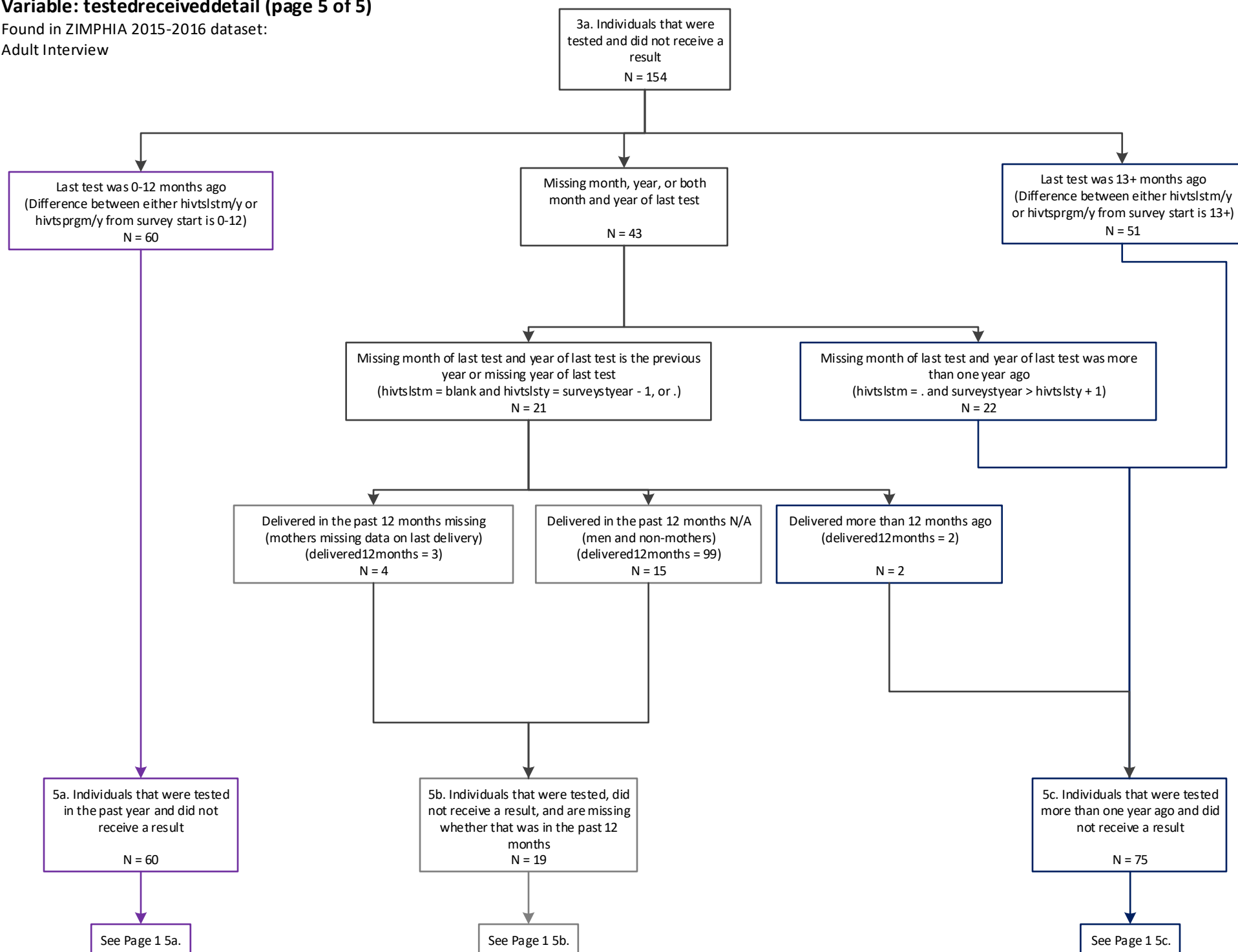


Variable: testedreceiveddetail (page 5 of 5)

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

98



Variable: testedreceiveddetail

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview

- age
- indstatus
- hivtstever
- parthivtest1-3
- hivtsbp
- hivtprg
- hivttlb
- hivtstrslt
- hivpsbp
- hivrtpg
- hivrslr†
- arvftm
- arvfty
- hivtslstm
- hivtslsty
- hivtsprgm
- hivtsprgy
- surveystday†
- surveystmonth
- surveystyear
- delivered12months
- hivtspostbirth
- birthday1-4†
- birthmon1-4†
- birthyr1-4†

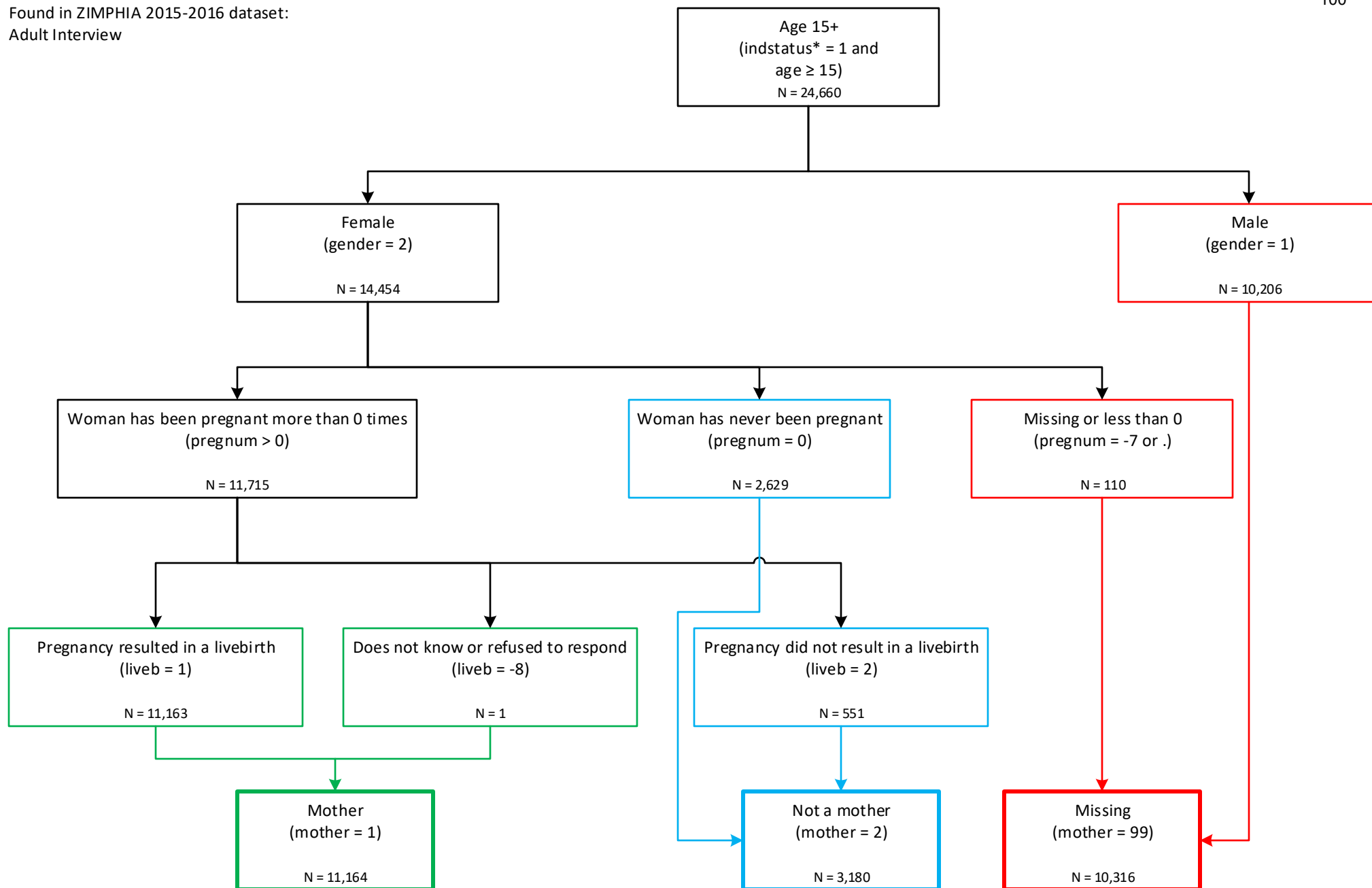
† Variable redacted from final dataset due to small counts and disclosure risk
Survey start date is derived from surveystday, surveystmonth, and surveystyear
Birth dates are derived from birthday, birthmon, and birthyr.

Variable: mother

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

100



Variable: mother

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

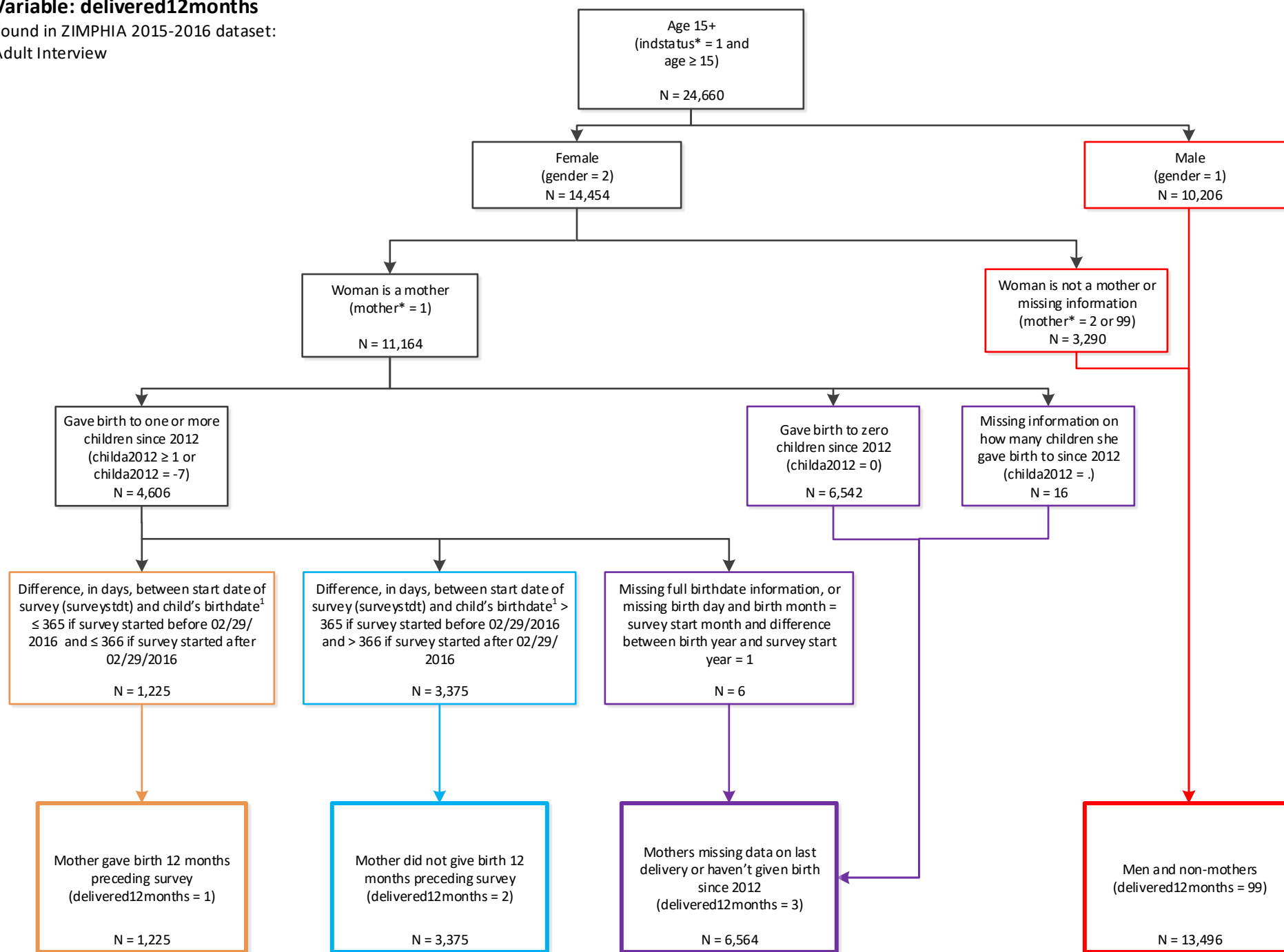
- age
- indstatus
- gender
- pregnum
- liveb
- mother

Variable: delivered12months

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

102



1. Birthdates coded using birth month (birthmon), birth day (birthday), and birth year (birthyr) provided for up to six children.

Variable: delivered12months

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

age

indstatus

gender

mother

childa2012

birthmon1-6†

birthday1-6†

birthyr1-6

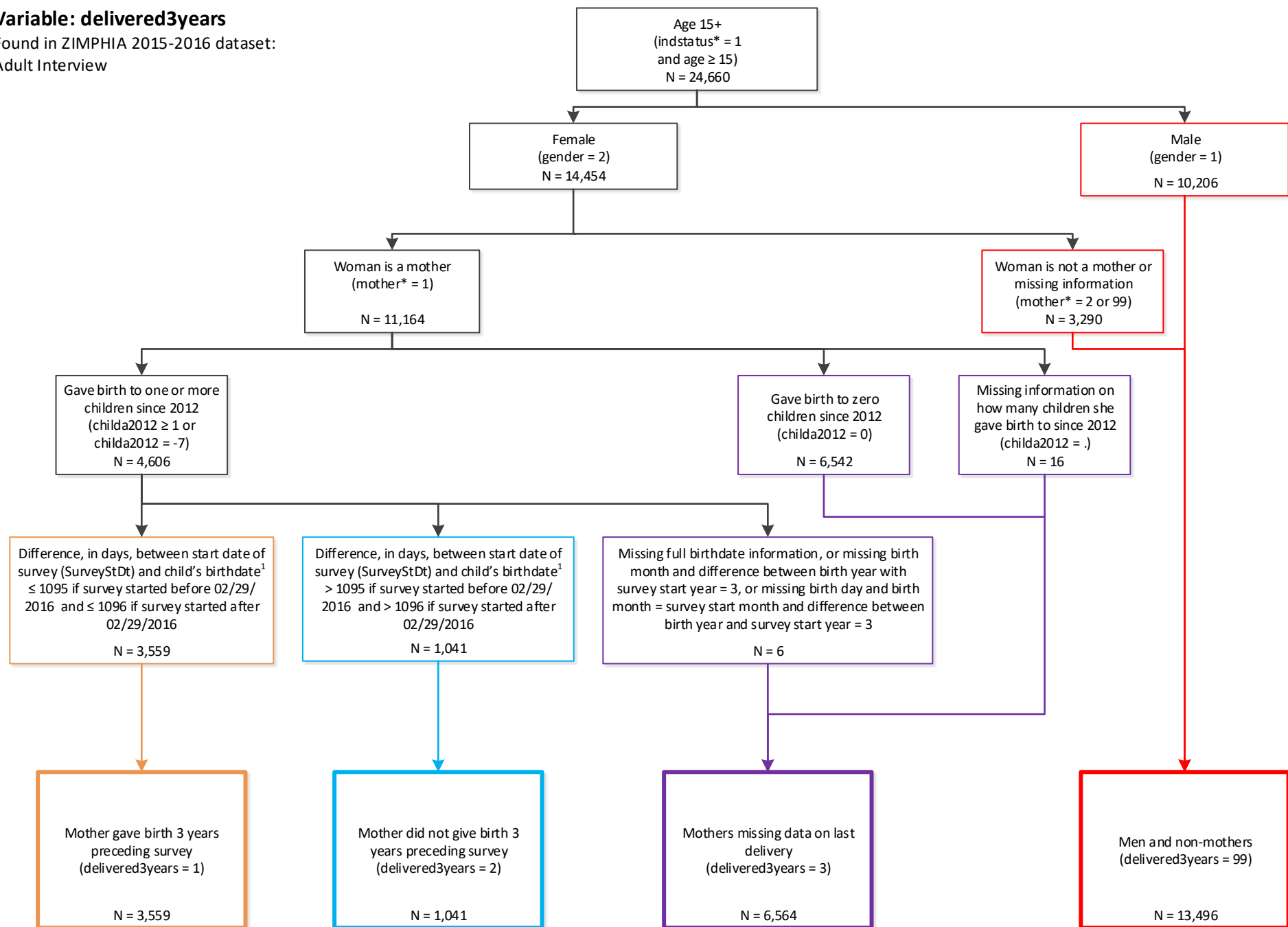
† Variable redacted from final dataset due to disclosure risk

Variable: delivered3years

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

104



1. Birthdates coded using birth month (birthmon), birth day (birthday), and birth year (birthyr) provided for up to six children.

Variable: delivered3years

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview

age

indstatus

gender

mother

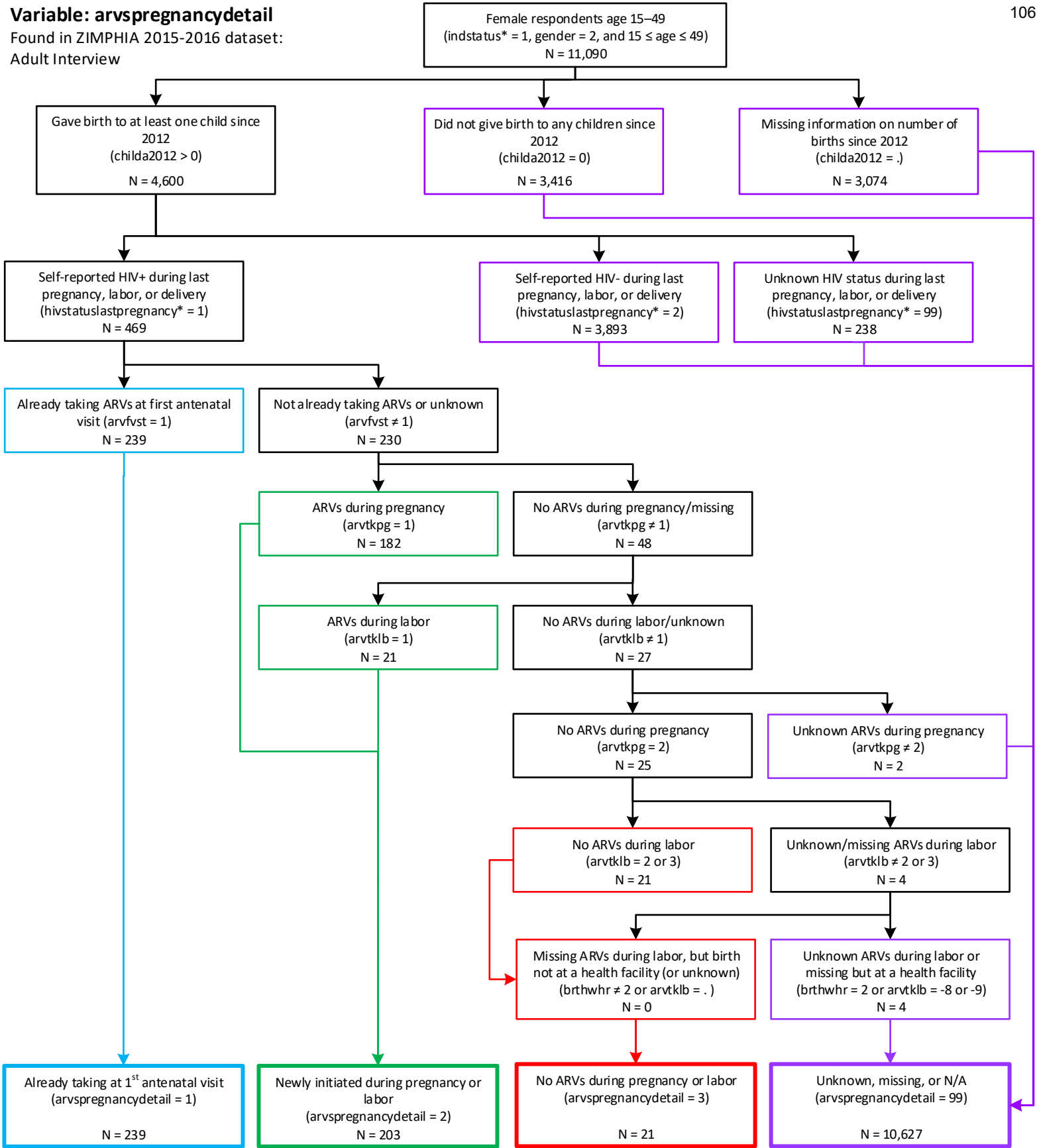
childa2012

birthday1-6†

birthmon1-6†

birthyr1-6

† Variable redacted from final dataset due to disclosure risk



Variable: arvspregnancydetail

Uses the following ZIMPHIA 2015-2016 variables:

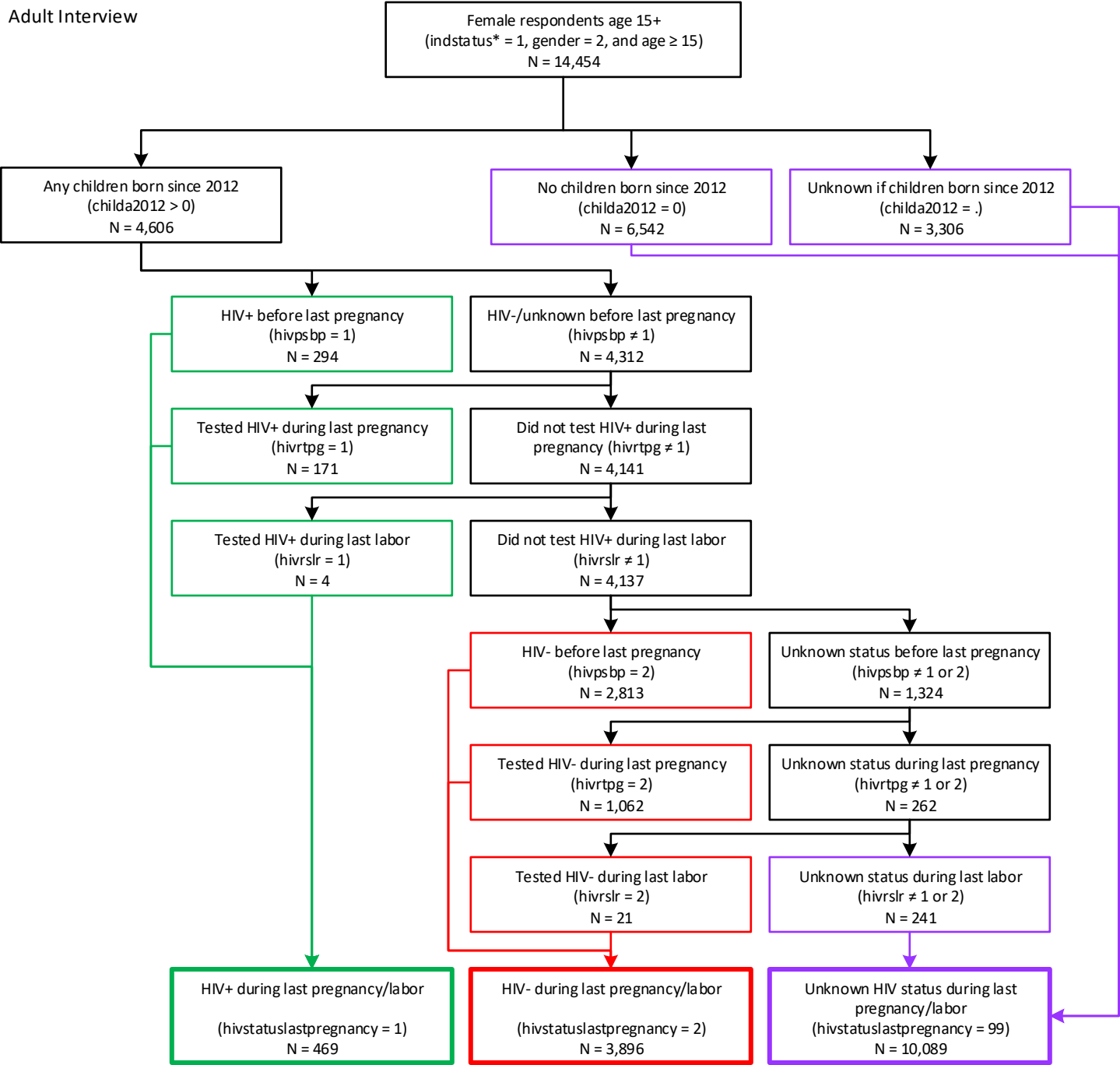
Adult Interview

- age
- indstatus
- gender
- childa2012
- hivstatuslastpregnancy
- arvfvt
- arvtkpg
- arvtklb†
- brthwhr
- delivered12months

† Variable redacted from final dataset due to small counts

Variable: hivstatuslastpregnancy

Found in ZIMPHIA 2015-2016 dataset:
Adult Interview



Variable: hivstatuslastpregnancy

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview

- age
- indstatus
- gender
- childa2012
- hivpsbp
- hivrtpg
- hivrslr†

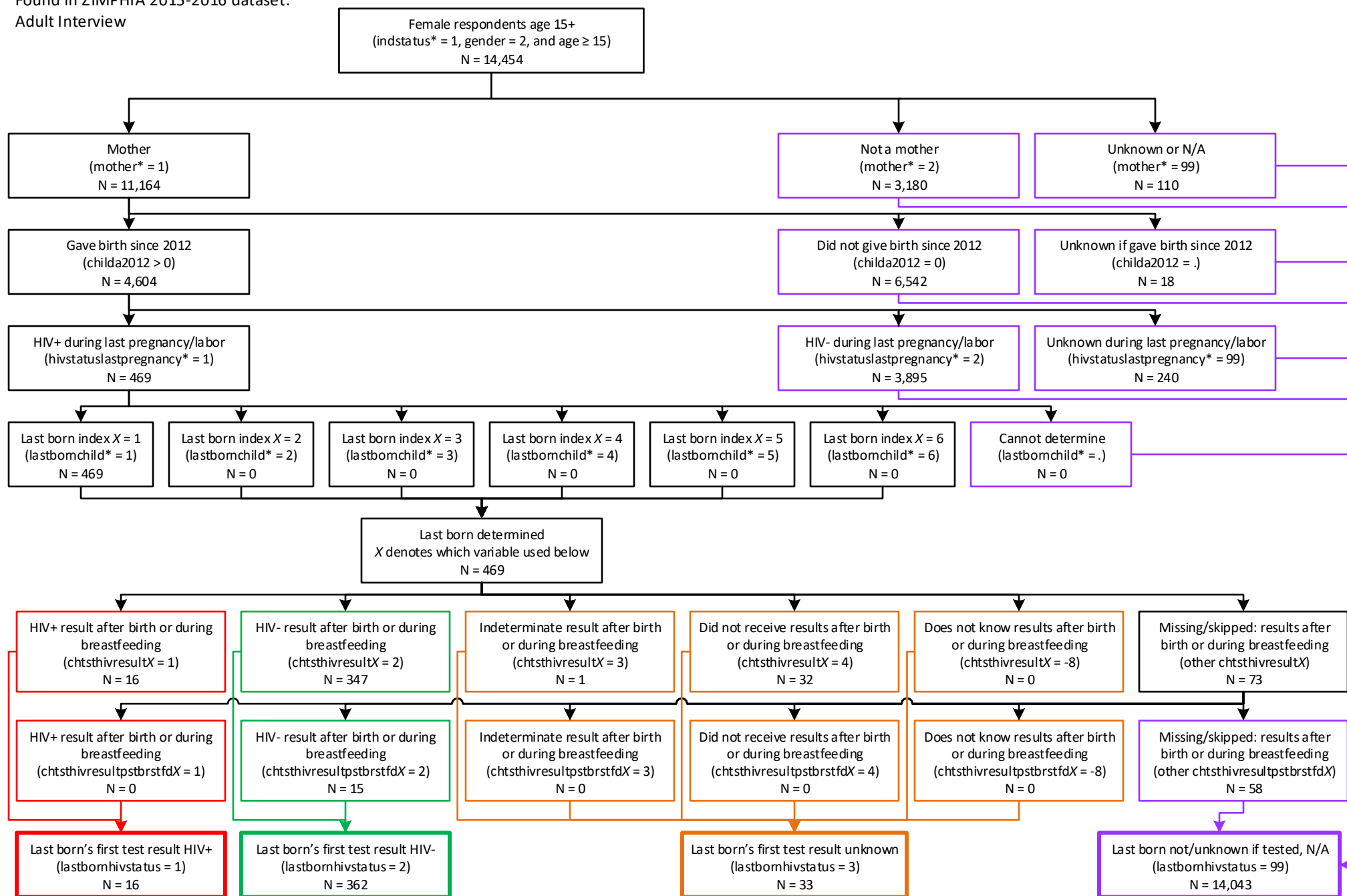
† Variable redacted from final dataset due to small counts

Variable: lastbornhivstatus

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

110



Variable: lastbornhivstatus

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

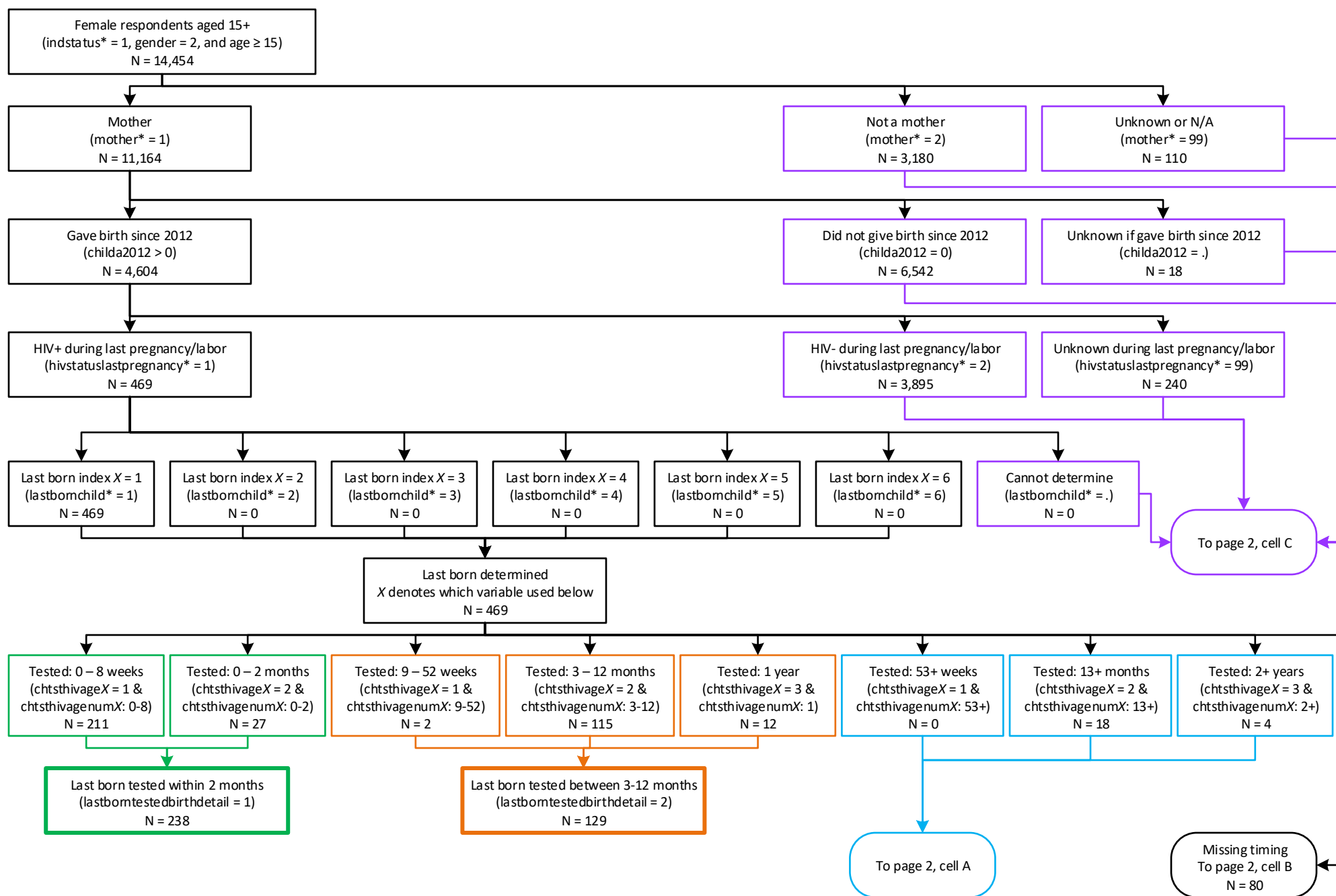
- age
- indstatus
- gender
- mother
- childa2012
- hivstatuslastpregnancy
- chtsthivresult1-4
- lastbornchild
- lastbornmissing
- chtsthivresultpstbrstfd1-4

Variable: lastborntestedbirthdetail (page 1 of 2)

Found in ZIMPHIA 2015-2016 datasets:

Adult Interview

112

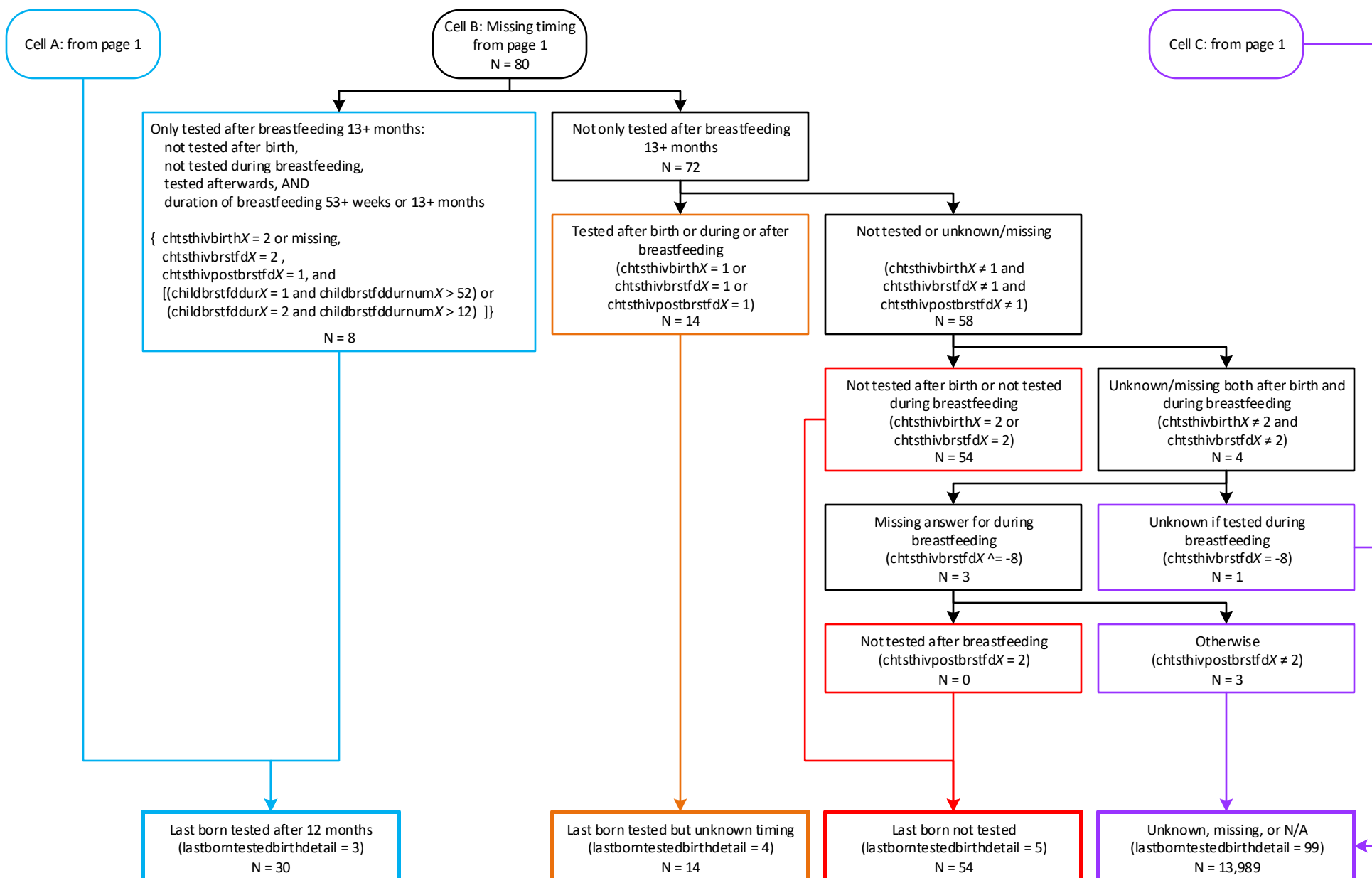


Variable: lastborntestedbirthdetail (page 2 of 2)

Found in ZIMPHIA 2015-2016 datasets:

Adult Interview

113



Variable: lastborntestedbirthdetail

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

chtsthivbirth1-4

chtsthivbrstfd1-4

chtsthivpostbrstfd1-4

childbrstfddur1-4

childbrstfddurnum1-4

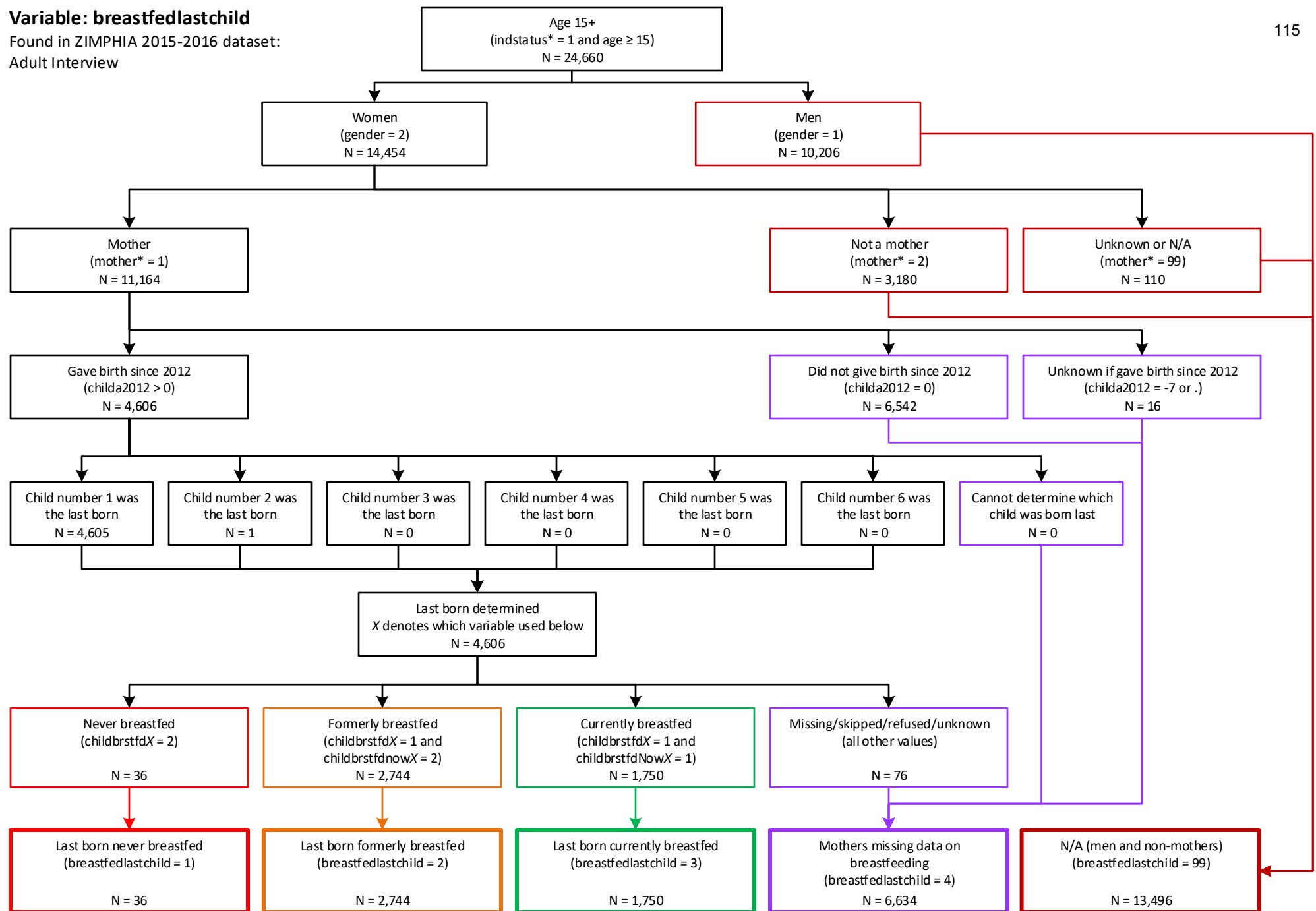
lastbornchild

Variable: breastfedlastchild

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

115



Variable: breastfedlastchild

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

age

indstatus

gender

mother

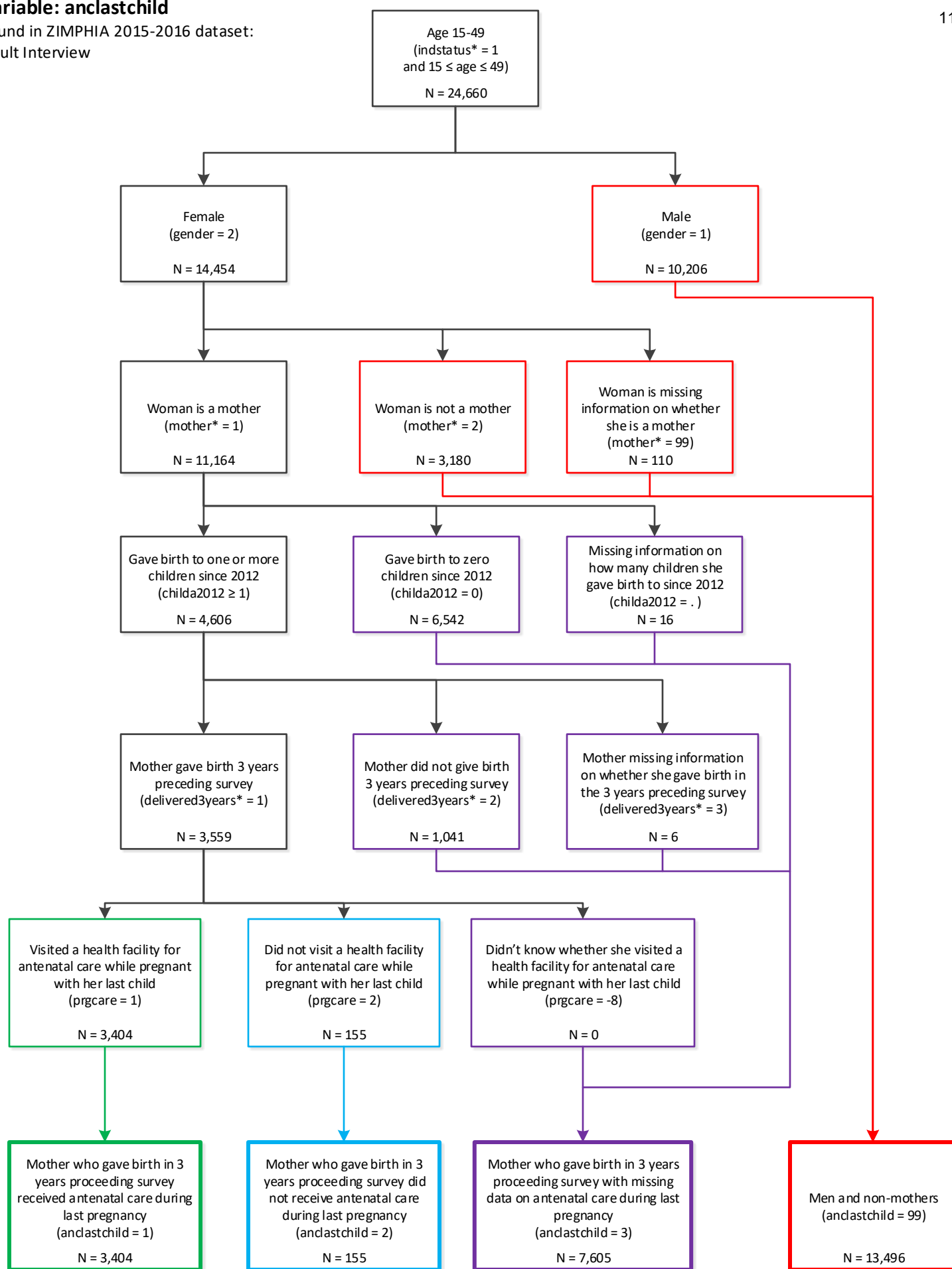
childa2012

childbrstfd1-4

Variable: anclastchild

Found in ZIMPHIA 2015-2016 dataset:
Adult Interview

117



Variable: anclastchild

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

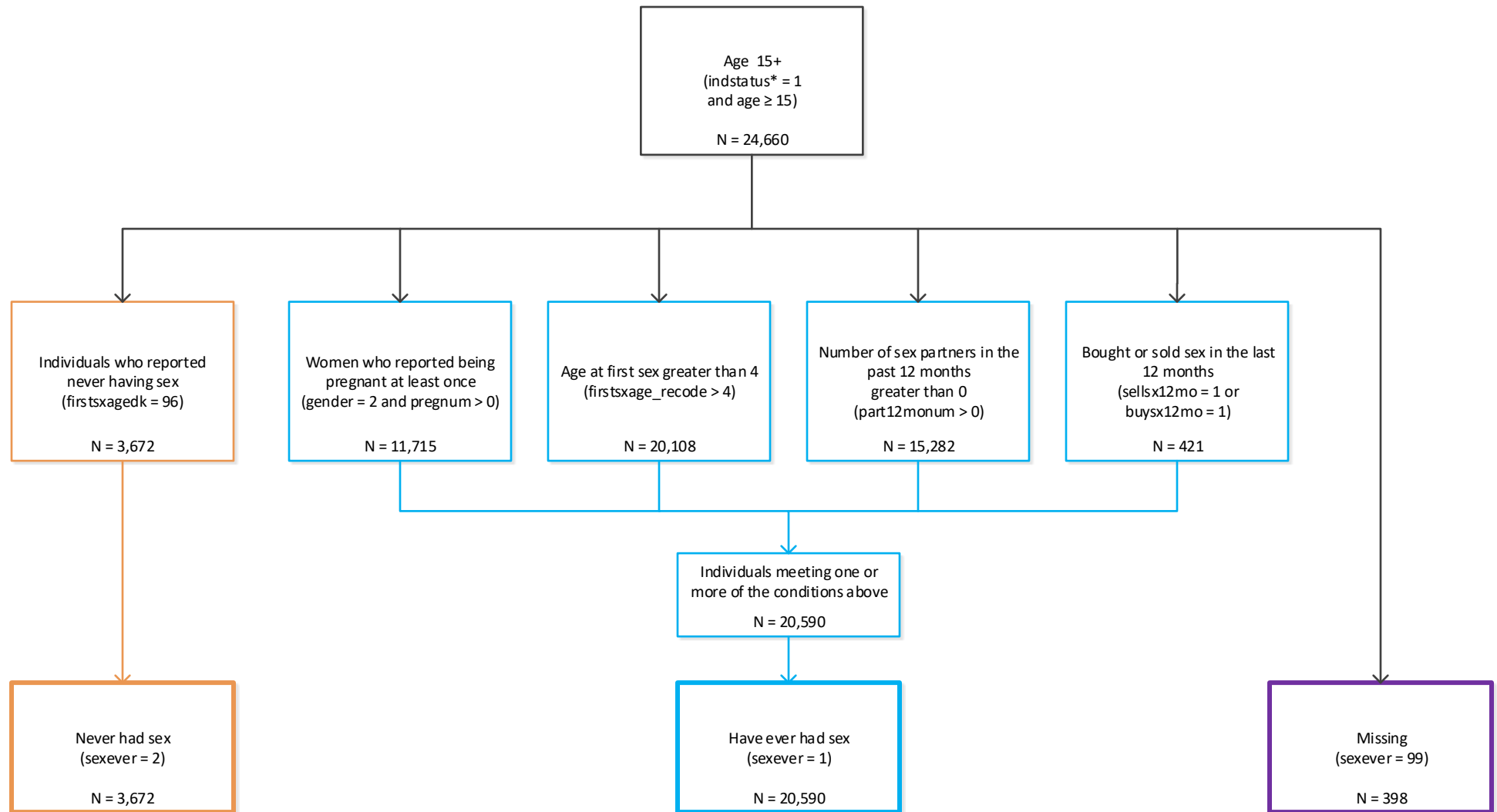
- age
- indstatus
- gender
- mother
- childa2012
- delivered3years
- prgcare

Variable: **sexevery**

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

119



Variable: sexever

Uses the following ZIMPHIA 2015-2016
variables:

Adult Interview dataset

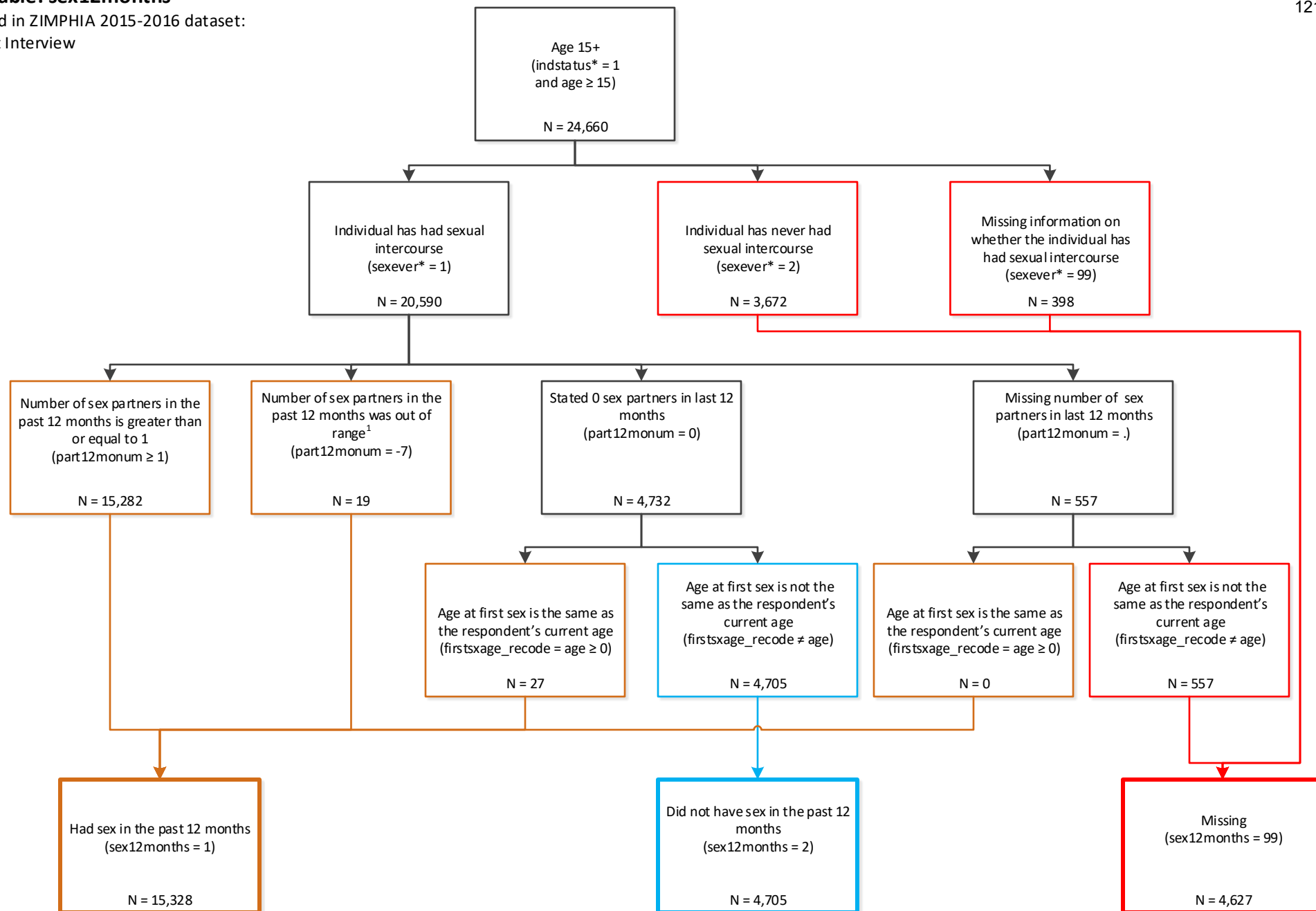
- age
- indstatus
- gender
- pregnum
- firstsxage_recode
- firstsxagedk
- part12mo
- sellsx12mo
- buysx12mo

Variable: sex12months

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

121



1. Number of sex partners in the past 12 months is out of range for women who had a child in the past 12 weeks and respondents who reported having bought or sold sex in the past 12 months that also reported having zero sex partners in the past 12 months.

Variable: sex12months

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

age

indstatus

sexever

part12mo

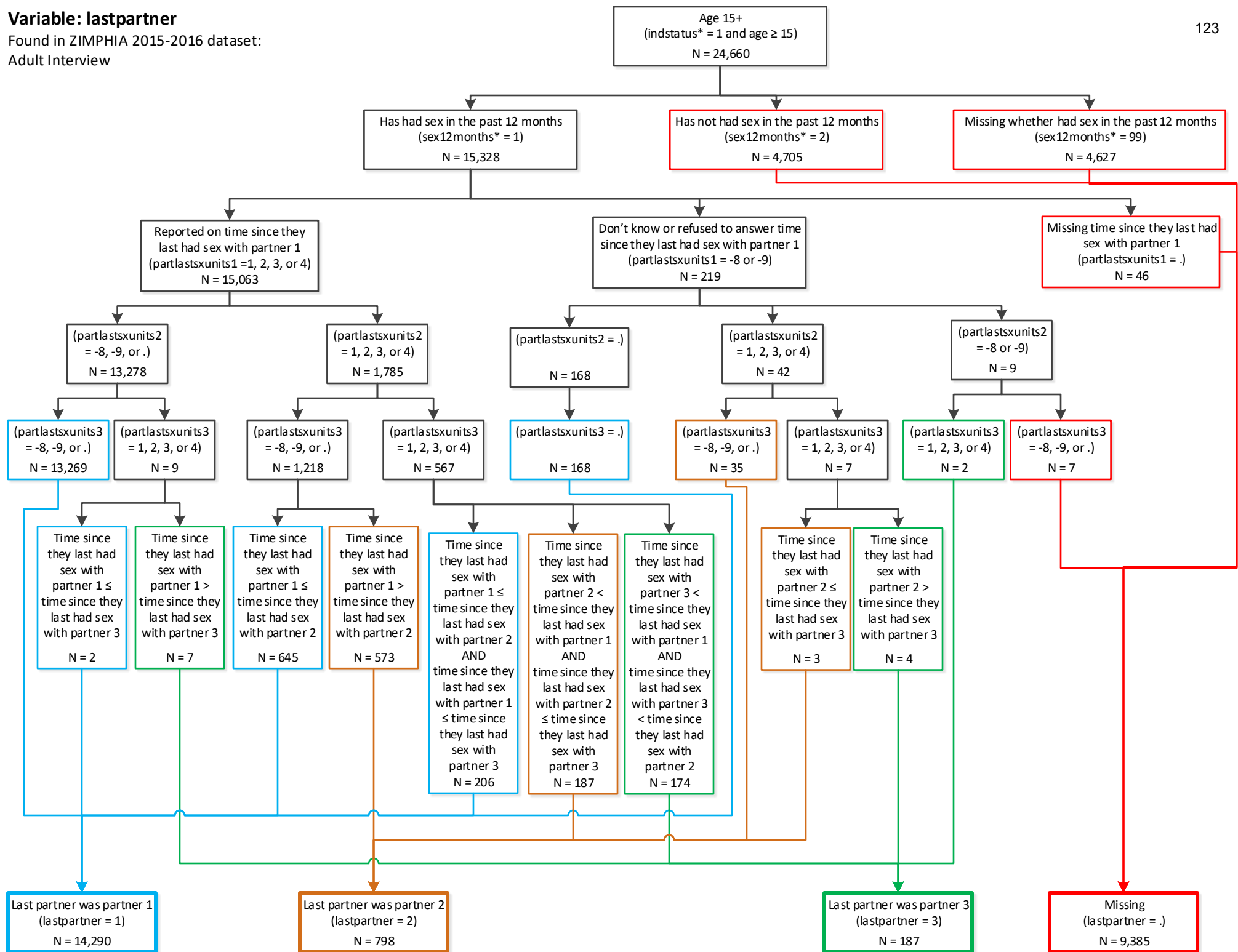
firstsxage

Variable: lastpartner

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

123



Variable: lastpartner

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

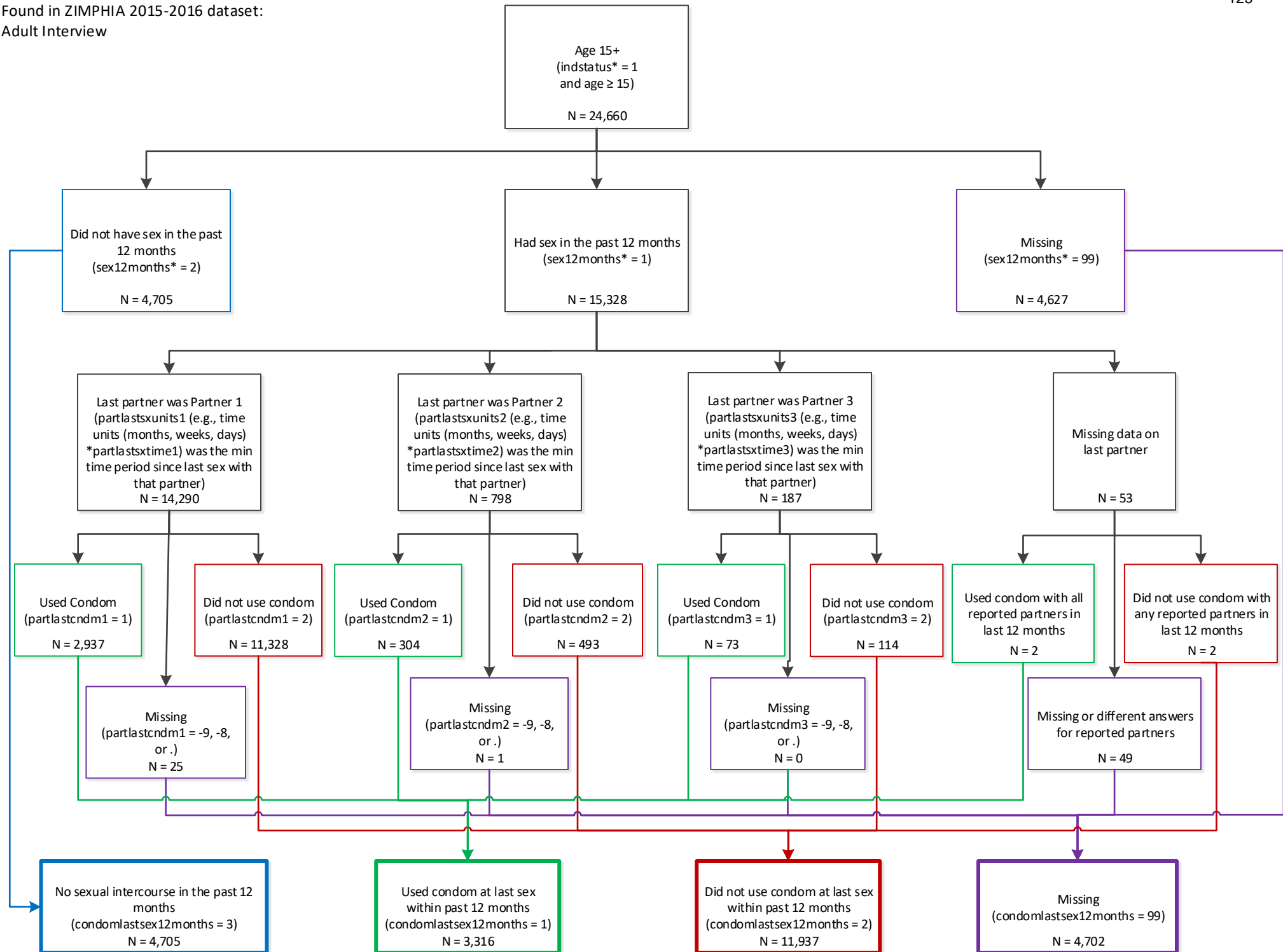
- age
- indstatus
- sex12months
- partlastsxunits1-3
- partlastsxtime1-3

Variable: condomlastsex12months

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

125



Variable: condomlastsex12months

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

age

indstatus

sex12months

partlastsxunits1-3

partlastsxtime1-3

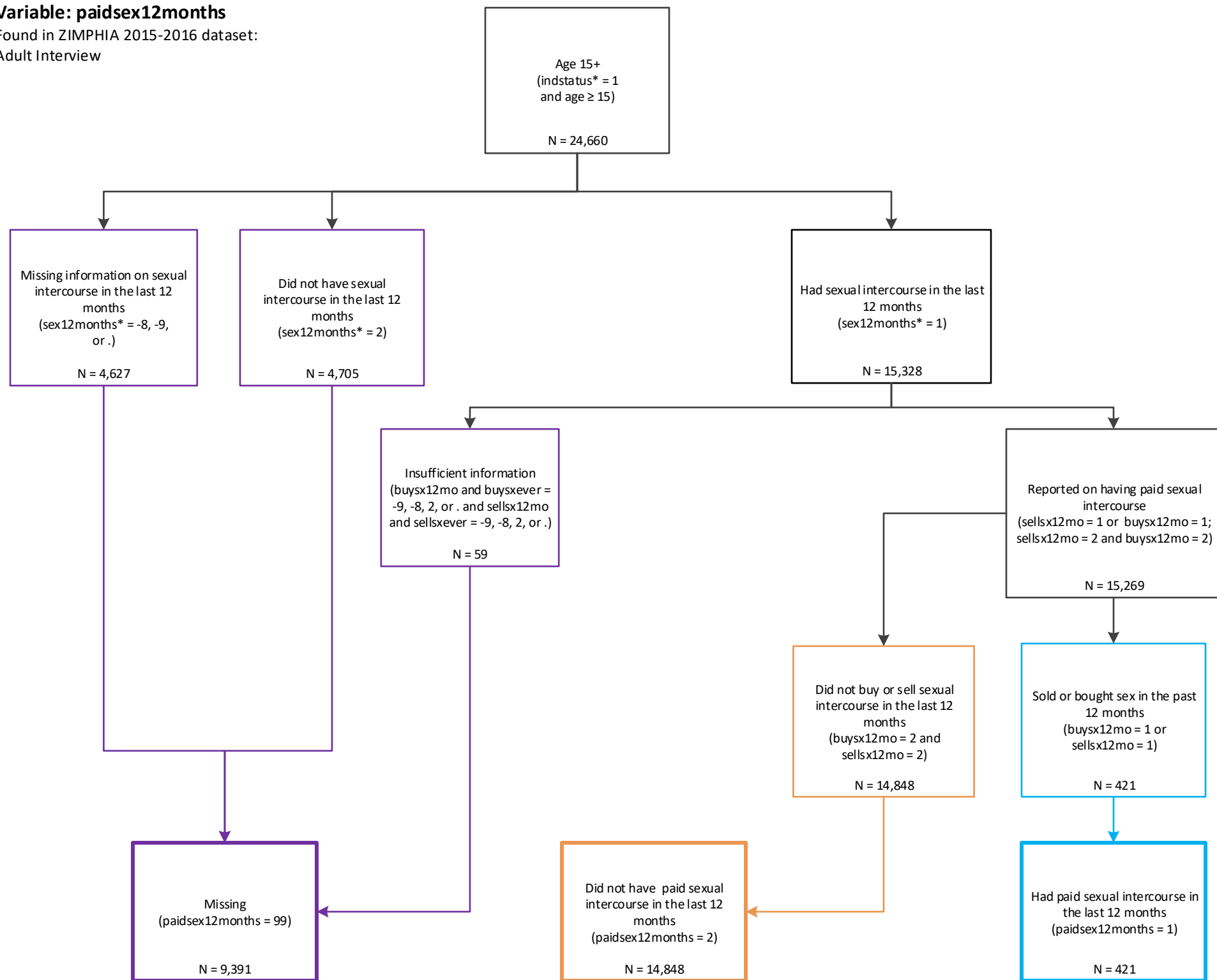
partlastcndm1-3

Variable: paidsex12months

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

127



Variable: paidsex12months

128

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

indstatus

age

sex12months

buysx12mo

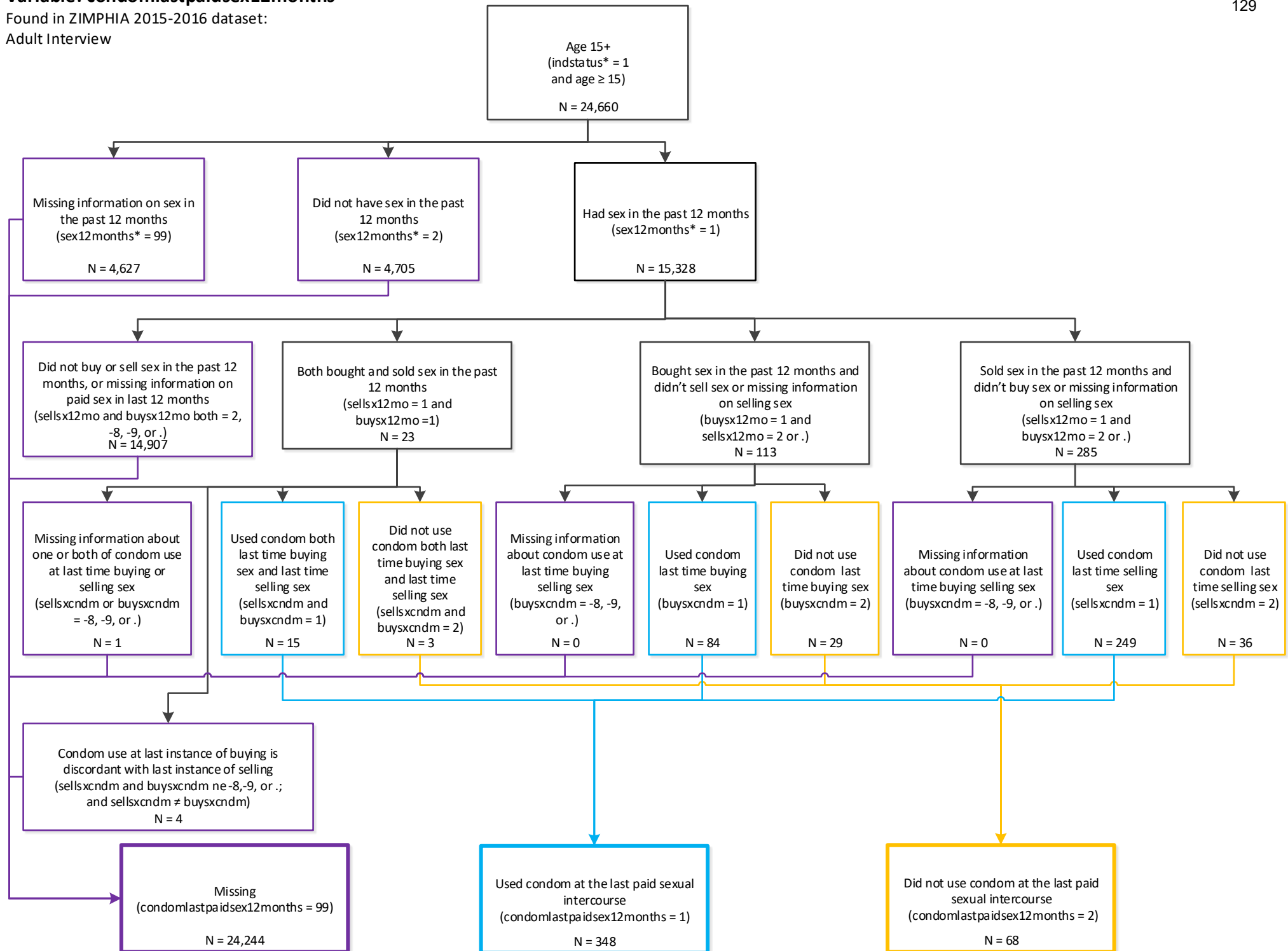
sellsx12mo

Variable: condomlastpaidsex12months

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

129



Variable: condomlastpaidsex12months

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

indstatus

age

sex12months

buysx12mo

sellsx12mo

buysxcndm

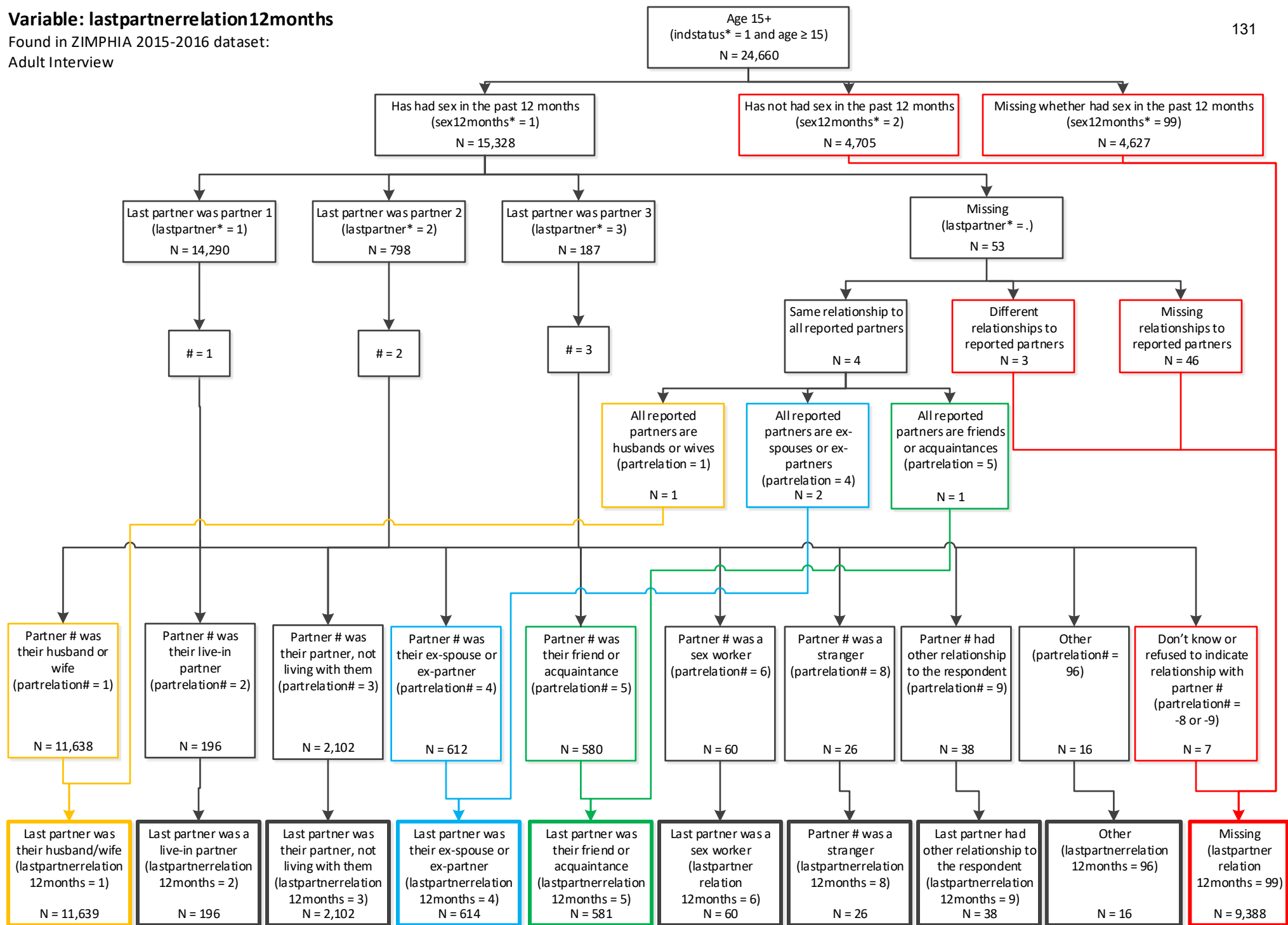
sellscndm

Variable: lastpartnerrelation12months

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

131



Variable: lastpartnerrelation12months

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

indstatus

age

sex12months

lastpartner

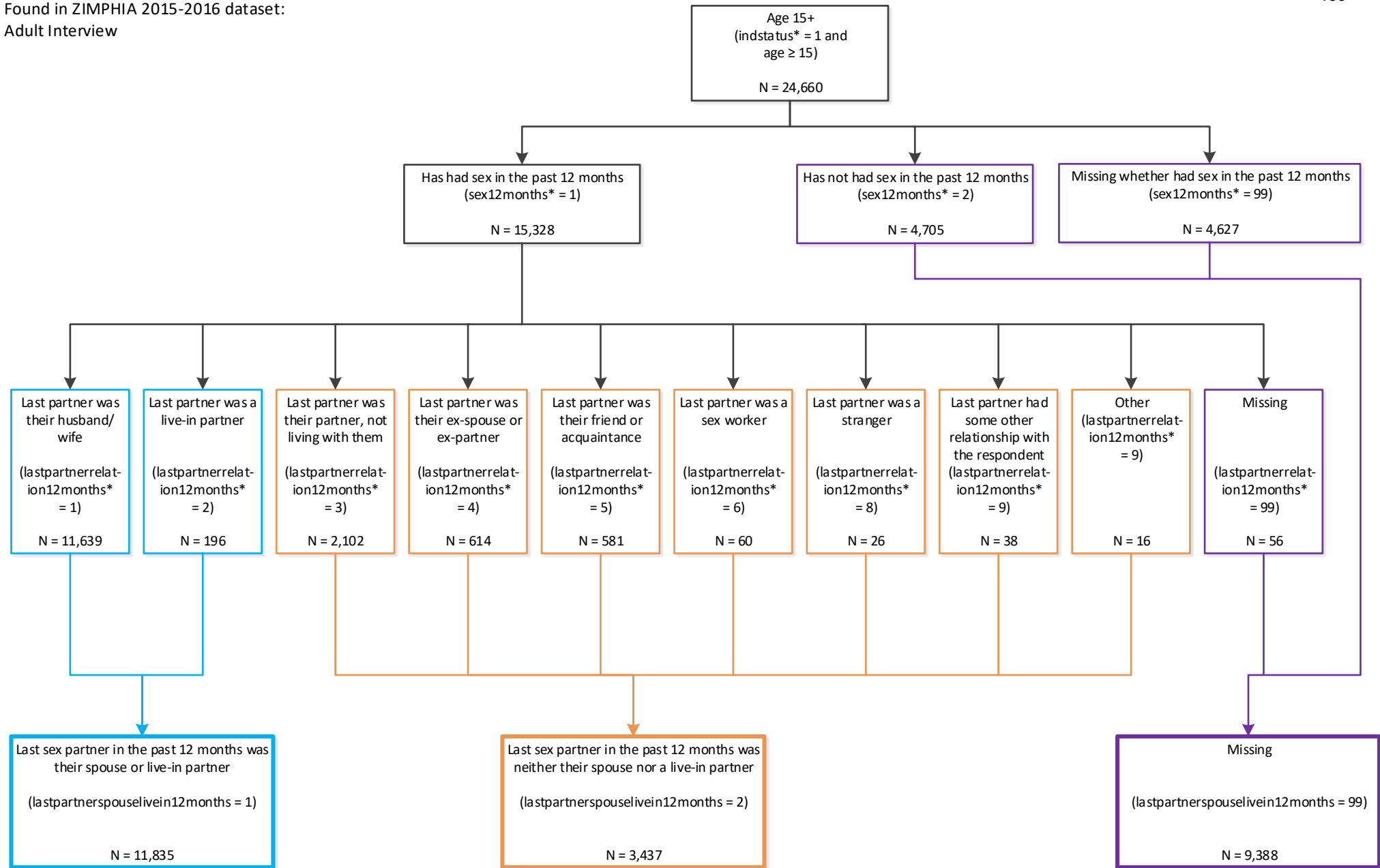
partrelation1-3

Variable: lastpartnerspouselivein12months

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

133



Variable: lastpartnerspouselivein12months

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

indstatus

age

sex12months

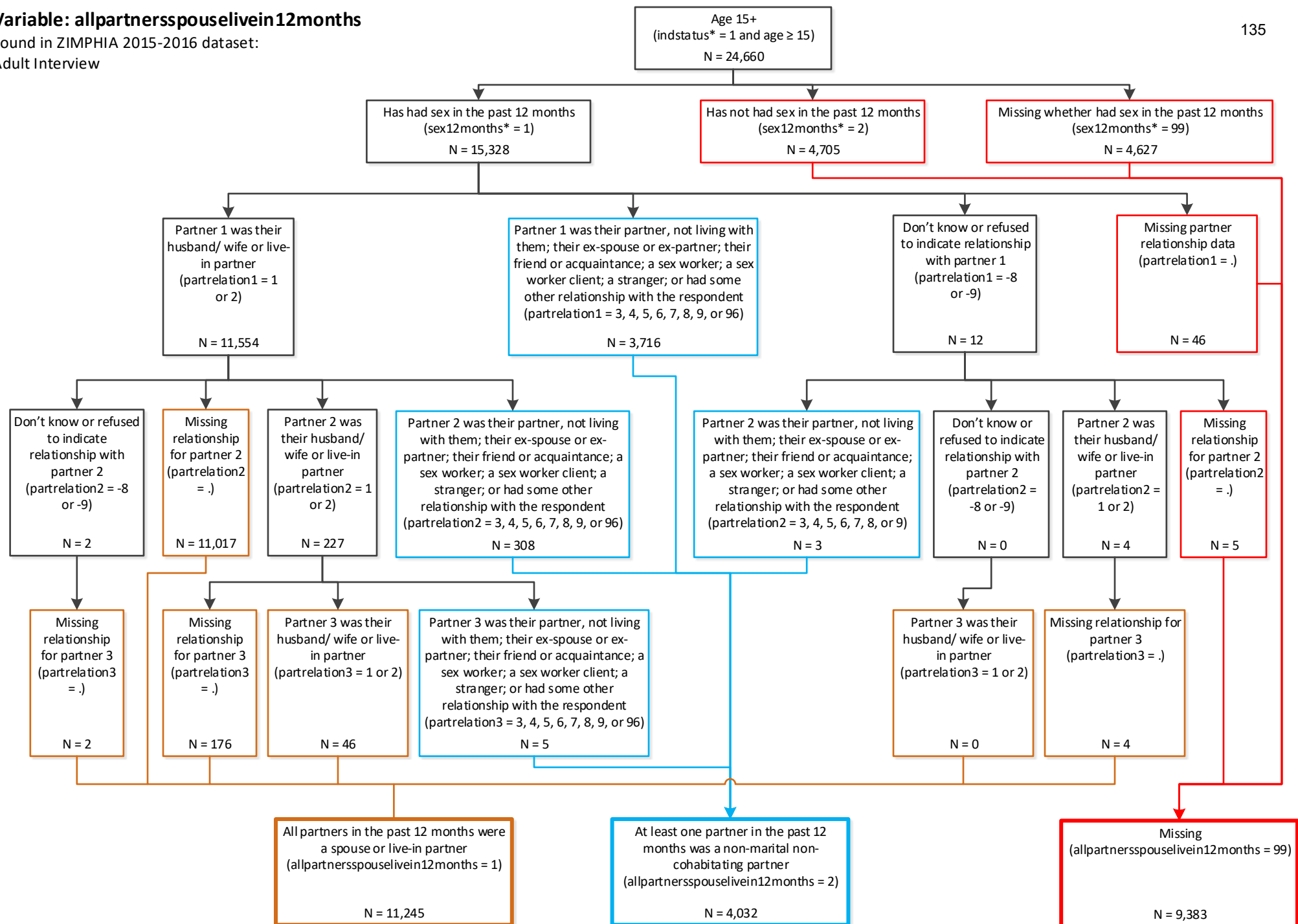
lastpartnerrelation12months

Variable: allpartnerspouselivein12months

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

135



Variable: allpartnersspouselivein12months

Uses the following ZIMPHIA 2015-2016 variables:

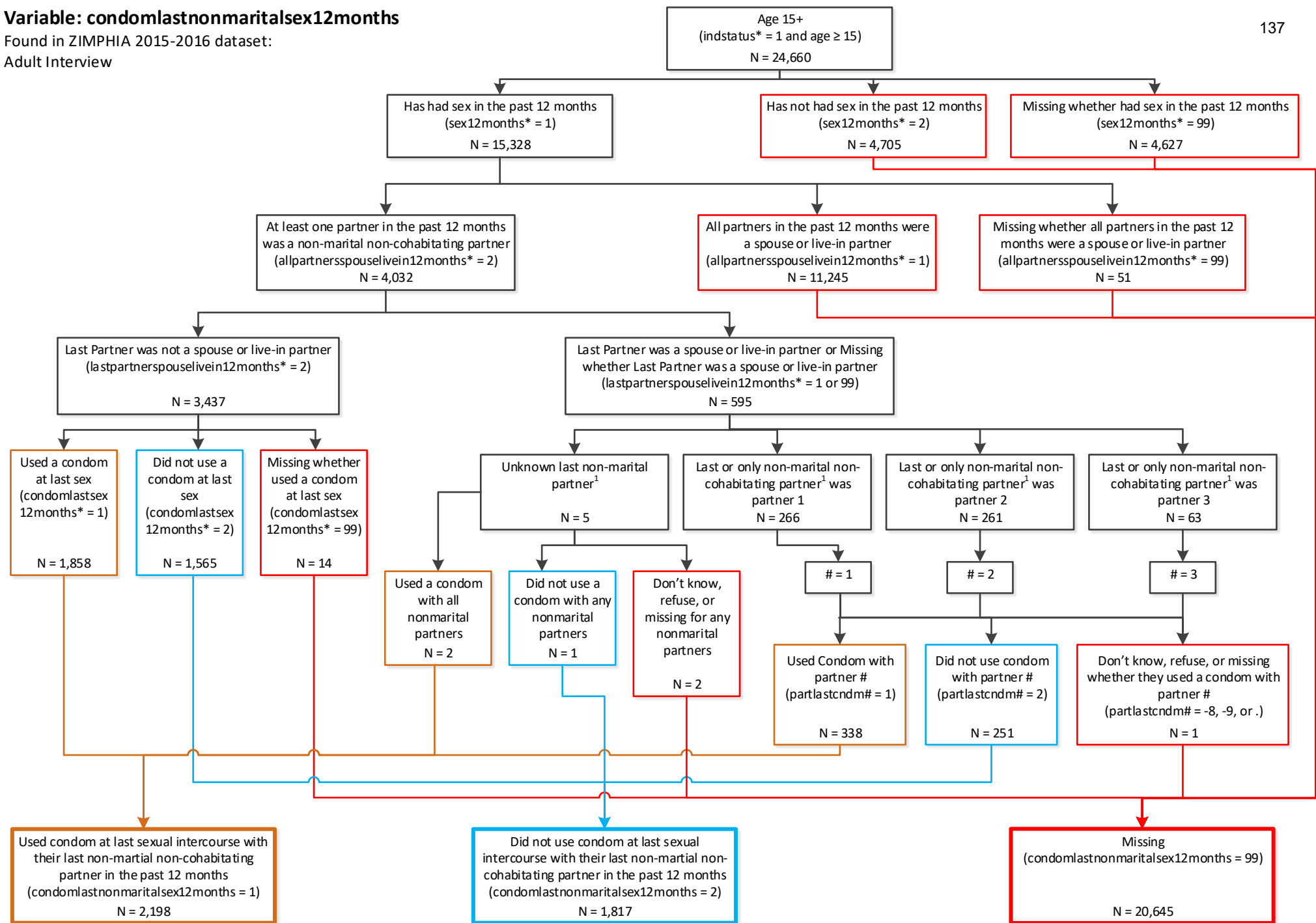
- Adult Interview dataset
- indstatus
- age
- sex12months
- partrelation1-3

Variable: condomlastnonmaritalsex12months

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

137



Variable: condomlastnonmaritalsex12months

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

indstatus

age

sex12months

allpartnerspouselivein12months

lastpartnerspouselivein12months

condomlastsex12months

partlastcndm1-3

partrelation1-3

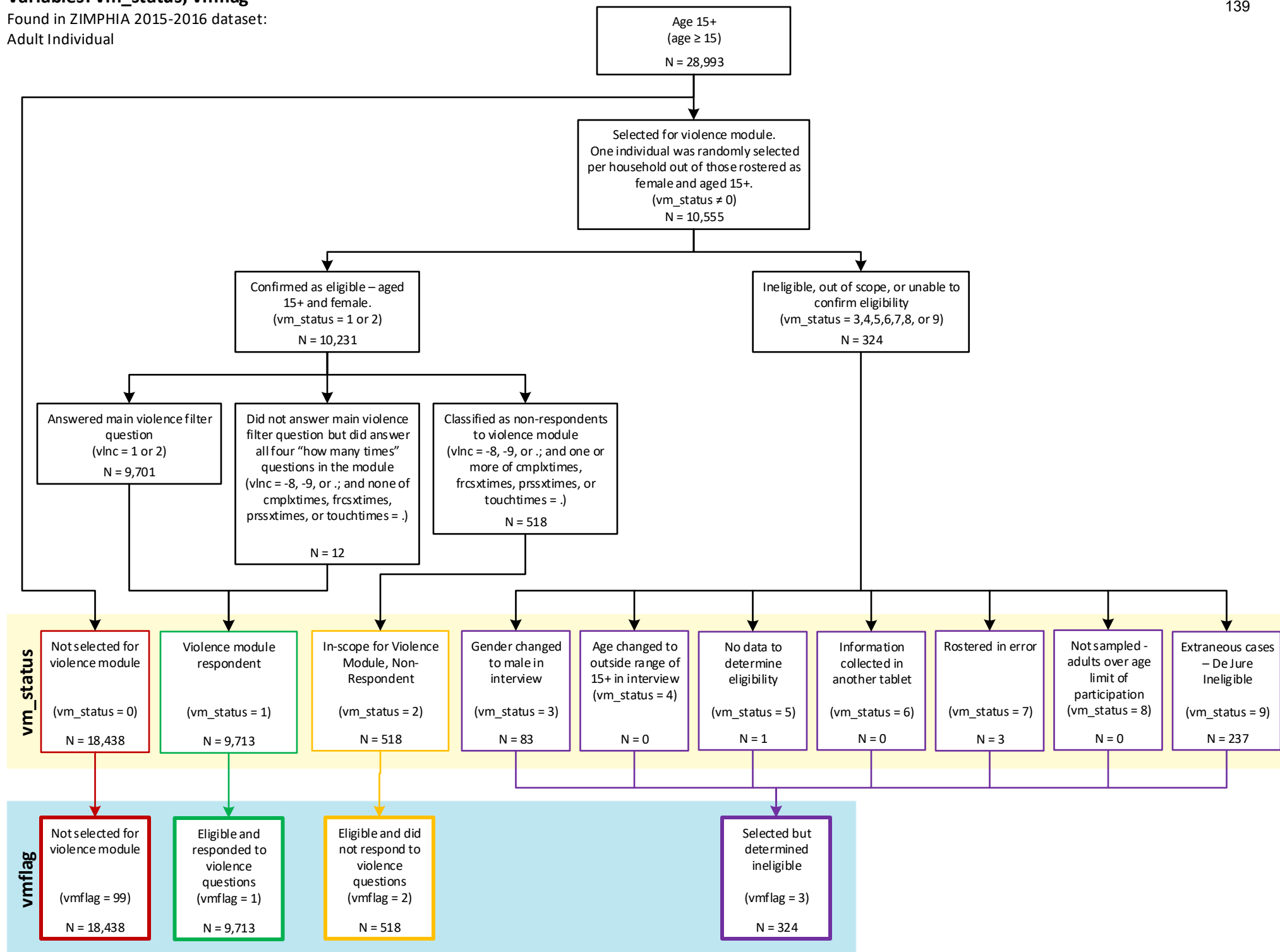
partlastsxtimeunitsd1-3

Variables: vm_status, vmflag

Found in ZIMPHIA 2015-2016 dataset:

Adult Individual

139



Variables: vm_status, vmflag

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

vm_flag

vm_status

vlnc

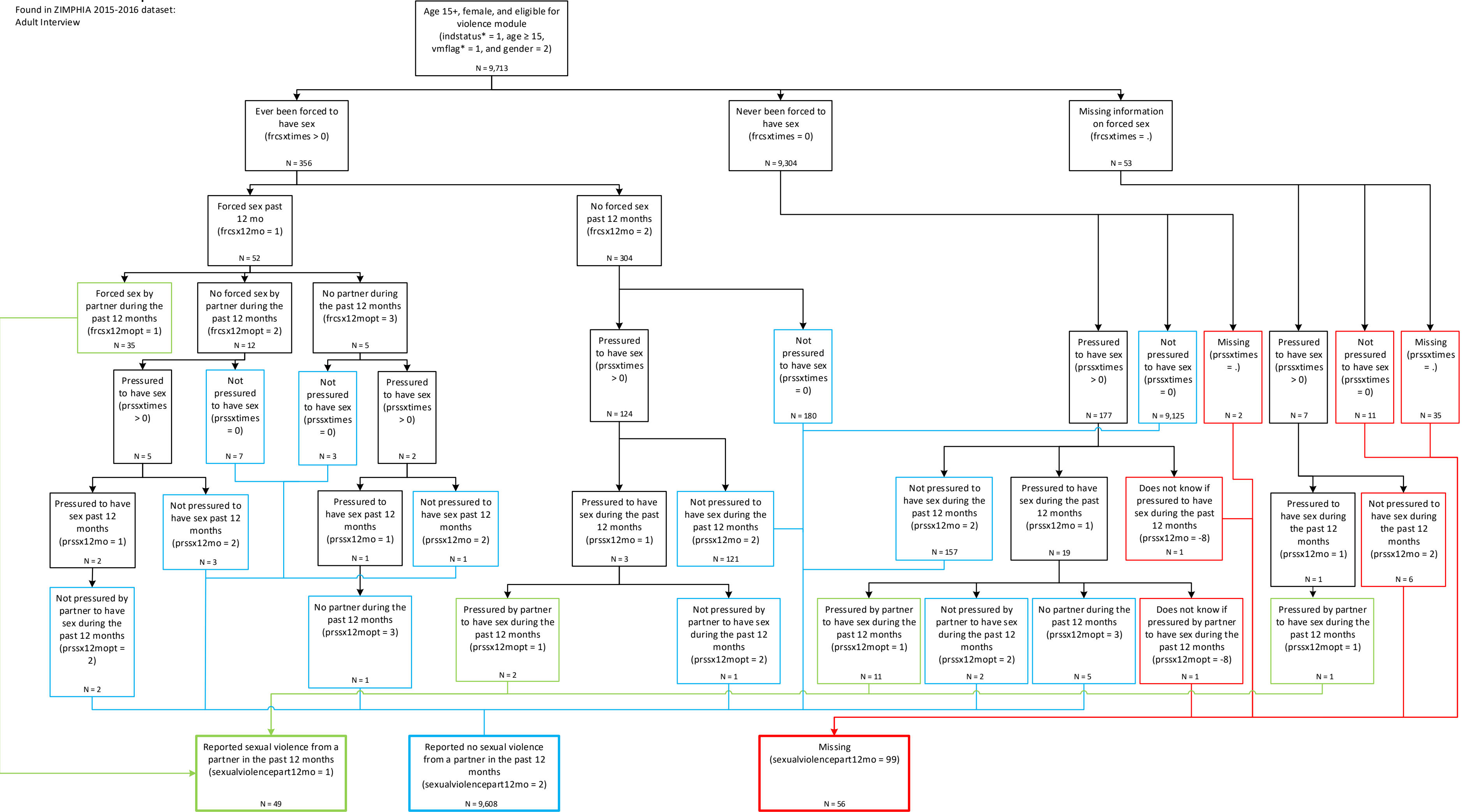
cmplxtimes

frcsxtimes

prssxtimes

touchtimes

Variable: sexualviolencepart12mo
Found in ZIMPHIA 2015-2016 dataset:
Adult Interview



Variable: sexualviolencepart12mo

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

- age
- gender
- indstatus
- vmflag
- frcsxtimes
- frcsx12mo
- frcsx12mopt†
- prssxtimes
- prssx12mo
- prssx12mopt†

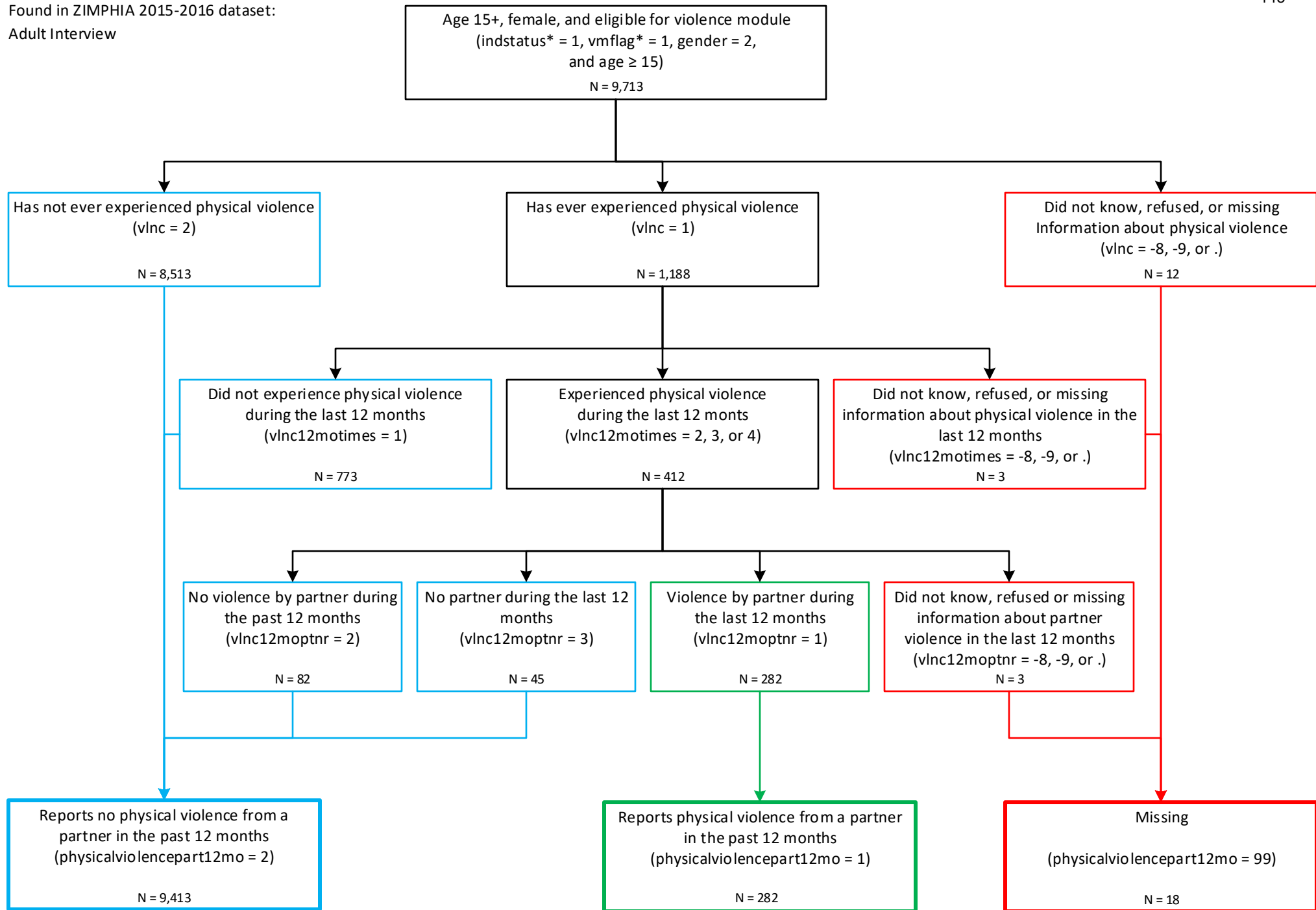
† Variable redacted from final dataset due to small counts

Variable: physicalviolencepart12mo

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

143



Variable: physicalviolencepart12mo

Uses the following ZIMPHIA 2015-2016
variables:

Adult Interview dataset

age

gender

indstatus

vmflag

vlnc

vlnc12motimes

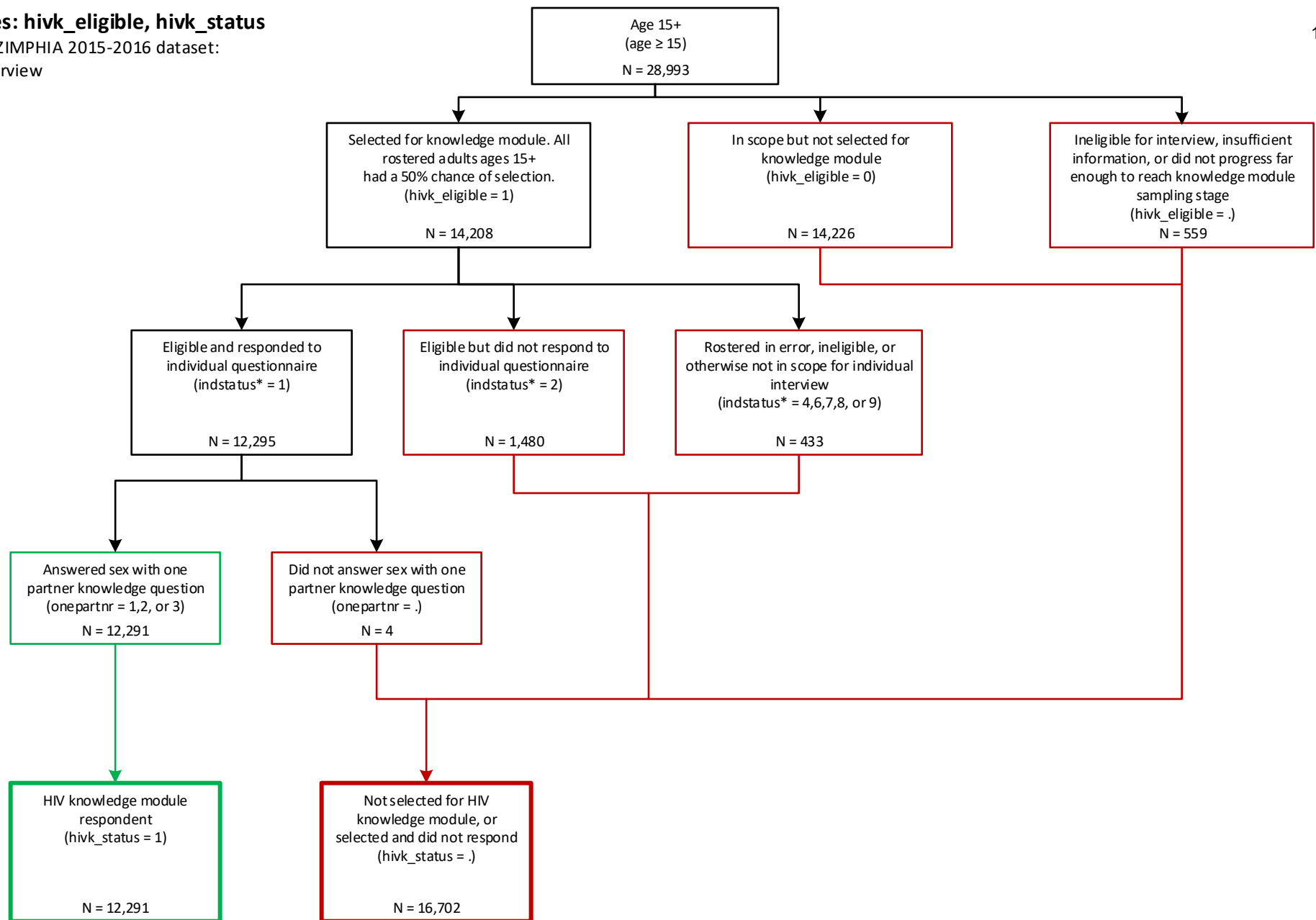
vlnc12moptnr

Variables: hivk_eligible, hivk_status

Found in ZIMPHIA 2015-2016 dataset:

Adult Interview

145



Variables: hivk_eligible, hivk_status

Uses the following ZIMPHIA 2015-2016 variables:

Adult Interview dataset

age

indstatus

hivk_eligible

onepartnr