NAIIS 2018
NIGERIA HIV/AIDS INDICATOR AND IMPACT SURVEY
...getting to zero

NIGERIA HIV/AIDS INDICATOR AND IMPACT SURVEY

DATA USE SUPPLEMENT MANUAL

NOVEMBER 2020

PARTNERS

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This project is supported by the U.S. President's Emergency Plan for AIDS Relief (PEPFAR) through CDC under the terms of cooperative agreement #U2GGH002108.
The contents of this document do not necessarily represent the official position of the funding agencies.

NIGERIA HIV/AIDS INDICATOR AND IMPACT SURVEY (NAIIS) 2018
DATA USE SUPPLEMENT MANUAL

NAIIS 2018 Collaborating Institutions

Federal Ministry of Health, Nigeria (FMoH)
National Agency for the Control of AIDS, Nigeria (NACA)
National Population Commission, Nigeria (NPopC)
National Bureau of Statistics, Nigeria (NBS)
The United States Centers for Disease Control and Prevention (CDC)
The Global Fund to Fight AIDS, Tuberculosis and Malaria (GF)
Center for International Health, Education, and Biosecurity (Ciheb) at the University of Maryland, Baltimore (UMB)
ICF International
African Field Epidemiology Network (AFENET)
University of Washington (UW)
The Joint United Nations Programme on HIV and AIDS (UNAIDS)
World Health Organization (WHO)
United Nations Children's Fund (UNICEF)

Donor Support and Disclaimer

This project is supported by the President's Emergency Plan for AIDS Relief (PEPFAR) through the Centers for Disease Control and Prevention (CDC) under the cooperative agreement #U2GGH002108 to the University of Maryland, Baltimore (UMB) and by the Global Fund to Fight AIDS, Tuberculosis and Malaria through the National Agency for the Control of AIDS (NACA), Nigeria, under the contract #NGA-H-NACA to UMB. The findings and conclusions of this report are those of the authors and do not necessarily represent the official position of the funding agencies.

Suggested Citation

Federal Ministry of Health, Nigeria. Nigeria HIV/AIDS Indicator and Impact Survey (NAIIS) 2018: Data Use Supplement Manual. Abuja, Nigeria. November 2020.

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Contents

I. Background

1. What is NAIIS 2018?

The Nigeria 2018 Population-based HIV Indicator and Impact Assessment (NAIIS 2018) is a cross-sectional household-based survey in Nigeria. Led by the Government of Nigeria, the survey was implemented in the Federal Republic of Nigeria (Nigeria) by the NAIIS Consortium, led by the University of Maryland, Baltimore (UMB) under the supervision of the NAIIS Technical Committee and was conducted from July through December 2018.

2. Purpose of the NAIIS 2018 Data Use Manual Supplement

The purpose of the NAIIS ***2018 Data Use Manual Supplement*** (hereafter, "Manual Supplement") is to accompany the ***Data Use Manual***, which contains information on the data generally applicable to all surveys, including an overview of the Project, survey design and sampling, measures, and a guide for users on how to access and use the data. This ***Manual Supplement*** contains NAIIS 2018 survey specifications, including survey-specific eligibility criteria, sampling approaches and measures. A summary of NAIIS 2018 findings can be found in the ***NAIIS 2018 Summary Sheet***.

3. Other Documentation and Resources

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

- ***Survey Questionnaires:*** Three questionnaires are provided, the NAIIS 2018 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 Trial) 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***.
- ***NAIIS 2018 Technical Report:*** Technical details of NAIIS 2018 sampling and weighting procedures are provided in deeper detail.

II. NAIIS 2018 Survey Specifications

4. Survey Design and Data Collection

Survey Design Characteristics	Description
Survey design	
Data source for survey weighting[1]	2006 Nigeria Census
Sampling stratum	State
Primary sampling unit	Census Enumeration Areas (EA)
Urban/rural categorization	Urban/rural
Survey administration	
Data collection dates	July 2018 – Dec 2018
Languages	English, Hausa, Igbo and Yoruba
Sample size[2]	
Number of selected EAs	4,035
Household respondents	83,909
Individual interviews	
Adults (15-64 years)	186,405
Adolescents (10-14 years)	10,665
Children (0-9 years)	26,623
Biomarker test participants	
Adults (15-64 years)	173,719
Adolescents (10-14 years)	9,789
Children (0-9 years)	22,706

[1] See ***NAIIS 2018 Technical Report*** for more details on the survey weighting approach.
[2] See ***NAIIS 2018 Final Report*** for response rates.

5. 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. 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 NAIIS and other PHIA surveys. Users can refer to each PHIA survey's ***Survey Questionnaires***, ***Codebooks***, and ***Manual Supplements***.

Questionnaire Module	Eligibility Criteria
Household questionnaire	Sample of households within selected EAs
Household roster	
Household characteristics	
Individual questionnaire – adults (15 - 64 years)	All rostered and consenting adults
Respondent background	
Marriage	
Reproduction	
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 testing history	
HIV status, care and treatment	All self-reporting HIV-positive adults
Tuberculosis and other health issues	
Gender norms	
Individual questionnaire – adolescents (10- 14 years)	All rostered[1] and consenting adolescents in every other household (25%)
Sociodemographic characteristics	
Parental support	
Alcohol and drugs	
Condoms	
Sexual behavior	
HIV knowledge	All adolescents
HIV risk perception	
HIV testing	
HIV stigma	
Social norms, intention to abstain, self-efficacy and assertiveness	

[1] Household members are eligible to be rostered if they were confirmed to have slept in the household the night before the interview.

6. Biomarker Testing

In NAIIS 2018, biomarker testing is offered to all rostered and consenting adults (15-64 years).It is also offered to all rostered adolescents (10-14 years) who provided written assent and children (0-9 years) whose guardians provided consent. Eligibility criteria for receiving tests for specific biomarkers are provided in the table below.

Biomarker Test	Eligibility Criteria
HIV serostatus[1]	All participants
Recency of HIV infection[2]	All HIV+ participants > 18 months old
CD4+ cell count	All HIV+ and 2% of HIV- participants
Antiretroviral (ARV) drug presence	All HIV+ participants
ARV drug resistance	All HIV+ participants
Hepatitis B surface antigen	Adults aged 18-64 years and emancipated minors aged 15-17 years: all HIV+ and 5,303 HIV- participants
Hepatitis C antibody	Adults aged 18-64 years and emancipated minors aged 15-17 years: all HIV+ and 5,303 HIV- participants

[1] HIV serostatus was determined using the Nigerian National Serial HIV Rapid Testing Algorithm that combined results from household-based rapid and confirmatory tests. Appendix B, Figure B.1 and accompanying text in the NAIIS Technical Report provide a detailed description of the algorithm.
[2] HIV-1 LAg avidity plus viral load and HIV-1 LAg avidity plus viral load and ARV detection were used to distinguish recent from long-term infection.

NAIIS 2018 HIV Testing Algorithm

HIV prevalence testing was conducted in each household using a serological rapid diagnostic testing algorithm based on Nigeria's National HIV Testing Guidelines, with laboratory confirmation of seropositive specimens using a supplemental assay.

HBTC services, including HIV rapid testing and counseling, HBsAg and HCV rapid testing, point-of-care (POC) CD4 testing and return of results, were carried out in accordance with Nigeria's National HIV Testing Guidelines. HIV rapid testing was conducted in the field (Figure B.1) using a serial rapid-testing algorithm. Determine™ HIV ½ (Abbott Molecular Inc., Des Plaines, Illinois, United States) was used as a screening test. Uni-Gold™ (Trinity Biotech, plc., Wicklow, Ireland) was used as a confirmatory test. STAT PAK® HIV ½ Assay (Chembio Diagnostic Systems Inc., Medford, New York, United States) was used as a tie-breaker test for discordant screening and confirmatory tests. NAIIS participants with nonreactive results on the screening test were reported as HIV negative; those with a reactive screening test underwent confirmatory testing. Participants with reactive results on both the screening and confirmatory tests were classified as HIV-positive. Participants with a reactive screening test result, followed by a non-reactive confirmatory test result, had the tie-breaker test performed to determine HIV status. Participants with reactive tie-breaker tests were classified as HIV-positive while those with non-reactive tests were classified as HIV-negative.

All HIV-positive specimens were retested at the satellite laboratory using Geenius™ HIV 1/2 Supplemental Assay (Bio-Rad, Hercules, California, United States) as the confirmatory test. Participants who had reactive results on both rapid and Geenius™ HIV 1/2 tests were classified as HIV-positive. Participant specimens with a reactive rapid test result followed by a non-reactive confirmatory test result

at the satellite laboratory were subjected to further QA discrepancy resolution at the central laboratory. Specimens from participants who self-reported being HIV positive with an HIV negative test result at HBT received further testing, including additional HIV serial rapid testing and Geenius™ HIV 1/2 testing in the satellite and central laboratories as well as deoxyribonucleic acid (DNA) polymerase chain reaction (PCR) to resolve discrepancies.

For participants aged 18 months-64 years, the algorithm for classification of final HIV status included results from rapid HIV testing and Geenius™ HIV 1/2 confirmatory testing on all positives. In addition, Western Blot, TNA PCR and VL RNA PCR were done on discrepant results. For participants less than 18 months, the algorithm for classification of final HIV status included results from rapid HIV testing and HIV TNA PCR. Classification of final HIV status was used to determine estimates for HIV prevalence and to inform estimates for HIV incidence.

All infants <18 months were tested for HIV using the Determine™ HIV 1/2 Rapid Test. Infants who were reactive on Determine received IVT/EID testing using prepared DBS. In addition, infants born to mothers of unknown HIV status or HIV-positive mothers were screened using the Determine™ HIV ½ HIV Test and received IVT/EID testing using prepared DBS. HIV TNA PCR using COBAS® TaqMan® HIV-1 Qualitative Test (Roche Molecular Systems, Branchburg, NJ, USA) United States) analyzer was conducted at the central laboratory. Specimens with HIV-negative results were categorized as HIV negative while specimens with HIV-positive results were reported as HIV-positive. Results were returned to the infant's parent or guardian at the household within two weeks of specimen collection.

7. Data Confidentiality

As noted in the ***NAIIS 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 motivated by various risk disclosure concerns. 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- dieddated_05
Household	dieddatem1-dieddatem3
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, NAIIS 2018

Dataset	Variable	Top-coding upper bound
Adult individual	age	80
Adult individual	agemar	45
Adult individual	childa2015	5
Adult individual	husnwif	5
Adult individual	numwif	5
Adult individual	partage1-partage3	75
Adult individual	pregnum	15
Adult individual	prgtwina	3
Adult individual	wifliveew	5
Child Biomarker	momage	55
Child individual	adcurgrd	6
Child individual	adhigrade	6
Child individual	adlstyrgrd	7
Child individual	adlvlsch	3
Child individual	ch_education_ng	3

Variables that underwent top-coding, NAIIS 2018 (continued)

Dataset	Variable	Top-coding upper bound
Child individual	momage	55
Child individual	mompregnm	5
Child individual	mompregnum	15
Household	ah0_5_ng	6
Household	ah10_14_ng	5
Household	ah6_14_ng	7
Household	bloodtestcount	15
Household	childcount	15
Household	childcountdefacto	15
Household	hhrespondent	5
Household	menrostercount_ng	10
Household	owncamel_ng	8
Household	ownchikn	95
Household	owncow	50
Household	owndog_ng	10
Household	owngoat	60
Household	ownhorsedm	10
Household	ownlandnum_ng	95
Household	ownlivest	30
Household	ownothercattle_ng	50
Household	ownpig	30
Household	ownsheep	60
Household	roomsleep	10
Household	rostercount	20
Household	rostercountdefacto	20
Household	womenrostercount_ng	10

Bottom-coding is the process of re-coding values below a lower bound to the value of the lower bound. Bottom-coding was used 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, NAIIS 2018

Dataset	Variable	Bottom-coding lower bound
Adult individual	arvfty	2004
Adult individual	partage1-partage3	12
Household	ownlandnum_ng	0.8

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, NAIIS 2018

Dataset(s)	Variable	Small Cells
Household	staffidhh	761
Household	cookingfuel	10
Household	matexwalls	25
Household	matfloor	31
Household	owncamel_ng	3,4,5,6,7
Household	ownchikn	46 small cells
Household	owncow	29 small cells
Household	owndog_ng	8,9
Household	owngoat	27 small cells
Household	ownhorsedm	4,6,7,9
Household	ownlandnum_ng	65 small cells
Household	ownlivest	9,11-14,16-19,22-25,27,28
Household	ownothercattle_ng	28 small cells
Household	ownpig	11,12,13,14,15,16,17,18,20,21,22,23,24,25,27
Household	ownsheep	27 small cells

8. Dataset Specifications

Dataset (filename)	Number of Observations	Number of Variables
Household (NAIIS2018hh)	101,267	102
Adult individual (NAIIS2018adultind)	229,762	296
Adult biomarker (NAIIS2018adultbio)	177,026	51
Child individual (NAIIS2018childind)	158,491	255
Child biomarker (NAIIS2018childbio)	35,171	41
Other details	**Description**	
Two-letter country code prefix for ID variables	NG	
Survey weighting variables		
Survey weights provided (variable prefix)	Household Weight (hhwt0)	
	Interview Weight (Adolescent and Adult) (intwt0)	
	Blood Test Final Weight (btwt0)	
	Child Weight (chmodfwt0)	
	Hepatitis Weight (hepwgt)	
Selected variable parameters		
Household characteristics used for wealth index construction	*See next section*	
Mean duration recent infection used for HIV incidence estimation	130 days (95% CI 118-142 days)	

9. Wealth Index

The NAIIS 2018 Wealth Index was constructed following the latest Demographic and Health Survey (DHS) approach[1,2,3,4]. Household characteristics, asset ownership variables, services and amenities that are present in both urban and rural surveyed areas are selected. These variables are assumed to be good indicators of economic status.

Categorical items (such as type of water supply) are recoded into indicator variables (has, does not have), and along with continuous variables (such as number of persons per sleeping room) are then fit in a one-factor principal components analysis (PCA). The resulted single PCA factor is considered as underlying index of wealth and then used to score each household using the PCA weights.

For the NAIIS 2018 Wealth Index computation, three indexes were constructed: a common index, an urban-specific index, and a rural-specific index. Then using regression, mappings were made between urban index and the national index, and then between the rural index and the national index.

Summary Results:

The first principal component accounts for as much of the variability in the data as possible and is used to represent the Wealth Index for all three models.

Figures 1, 2 and 3 show scores of the most influential variables for each model.

Table 1. Common Model: Component Score Coefficient Matrix

Variable	Component
	1
havefan Fan	.084
havetele Television	.080
havelectiron_ng Electric iron	.077
haveelect Electricity	.076
havecongrid_ng Connected to the national grid	.074
ownbankacc Bank account	.071
cookingfuel Type of cooking fuel: Firewood	-.070
haverefrig Refrigerator	.069
matfloor Main floor material: Earth/sand	-.067
havegen_ng Generator	.058
matexwalls Main wall material: Mud	-.057
havetable Table	.056

Table 2. Urban Model: Component Score Coefficient Matrix	
Variable	**Component**
	1
havefan Fan	.090
havetele Television	.086
havelectiron_ng Electric iron	.084
haverefrig Refrigerator	.077
ownbankacc Bank account	.076
haveelect Electricity	.075
havecongrid_ng Connected to the national grid	.071
havegen_ng Generator	.066
havetable Table	.062
ownwatch Watch	.061
toilettype Type of toilet facility: Flush to septic tank	.052
cookingfuel Type of cooking fuel: Liquid propane gas	.051

Table 3. Rural Component Score Coefficient Matrix	
Variable	**Component**
	1
havefan Fan	.092
havetele Television	.087
haveelect Electricity	.078
havecongrid_ng Connected to the national grid	.077
matfloor Main floor material: Earth/sand	-.077
havelectiron_ng Electric iron	.076
ownbankacc Bank account	.071
havegen_ng Generator	.071
haverefrig Refrigerator	.069
havetable Table	.068
matexwalls Main wall material: Mud	-.062
cookingfuel Type of cooking fuel: Firewood	-.057

As expected, Electricity and major appliances along with furniture are the highest-scored variables in the model for all three models.

The Wealth Index calculated for the entire national survey as well as the Common Model are given in Table 4 below.

Table 4. NAIIS 2018 National Wealth Index Distribution

		combscor Combined national wealth score	comscore Common wealth score
N	Valid	40126	40126
	Missing	0	0
Mean		.0376565	.0426321
Std. Deviation		1.01513442	1.01541500
Minimum		-2.26759	-1.97441
Maximum		2.31011	2.41407
Percentiles	20	-1.0175941	-1.0062824
	40	-.3373665	-.3453848
	60	.4097625	.4005045
	80	1.0592796	1.0559611

Note that statistics in the above table are based on the household population of the survey rather than the households themselves; which explains why the mean value of the Index is slightly different from exactly zero, and the standard deviation from exactly one.

Figure 1 below shows a histogram distribution of the national **NAIIS 2018** Wealth Index. We can clearly observe the bi-modality shape of the distribution (i.e. has two major peaks) due to the combination of the two unimodal distributions of the rural and urban areas.

III. References

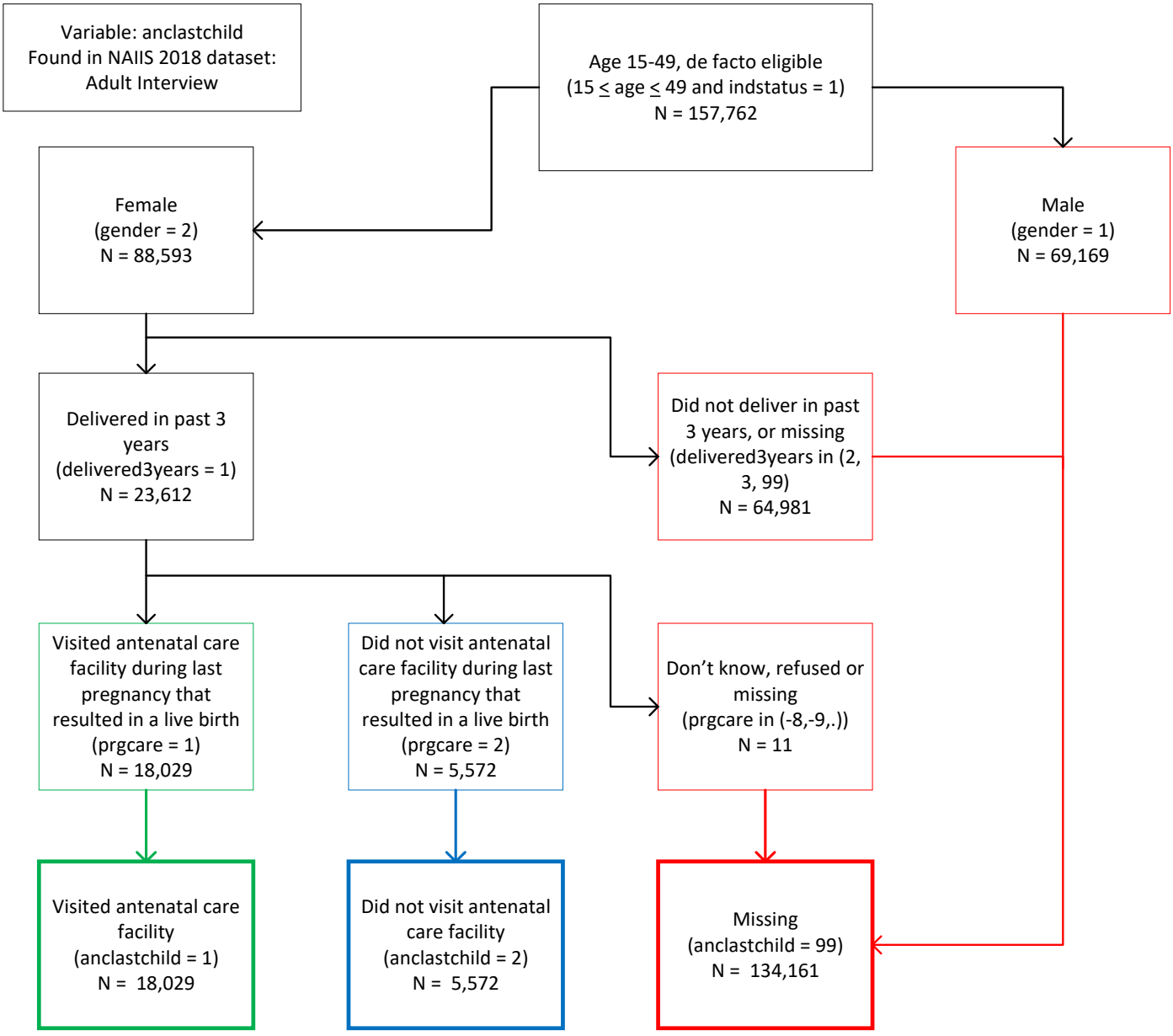
1. Rutstein, Shea, and Sarah Staveteig. 2014. *Making the Demographic and Health Surveys Wealth Index Comparable*. DHS Methodological Reports No. 9. Rockville, Maryland, USA: ICF International
2. Howe LD, Hargreaves JR, Huttly SR. Issues in the construction of wealth indices for the measurement of socio-economic position in low-income countries. *Emerg Themes Epidemiol.* 2008;5:3. (doi):10.1186/1742-7622-1185-1183.
3. 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.
4. 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.

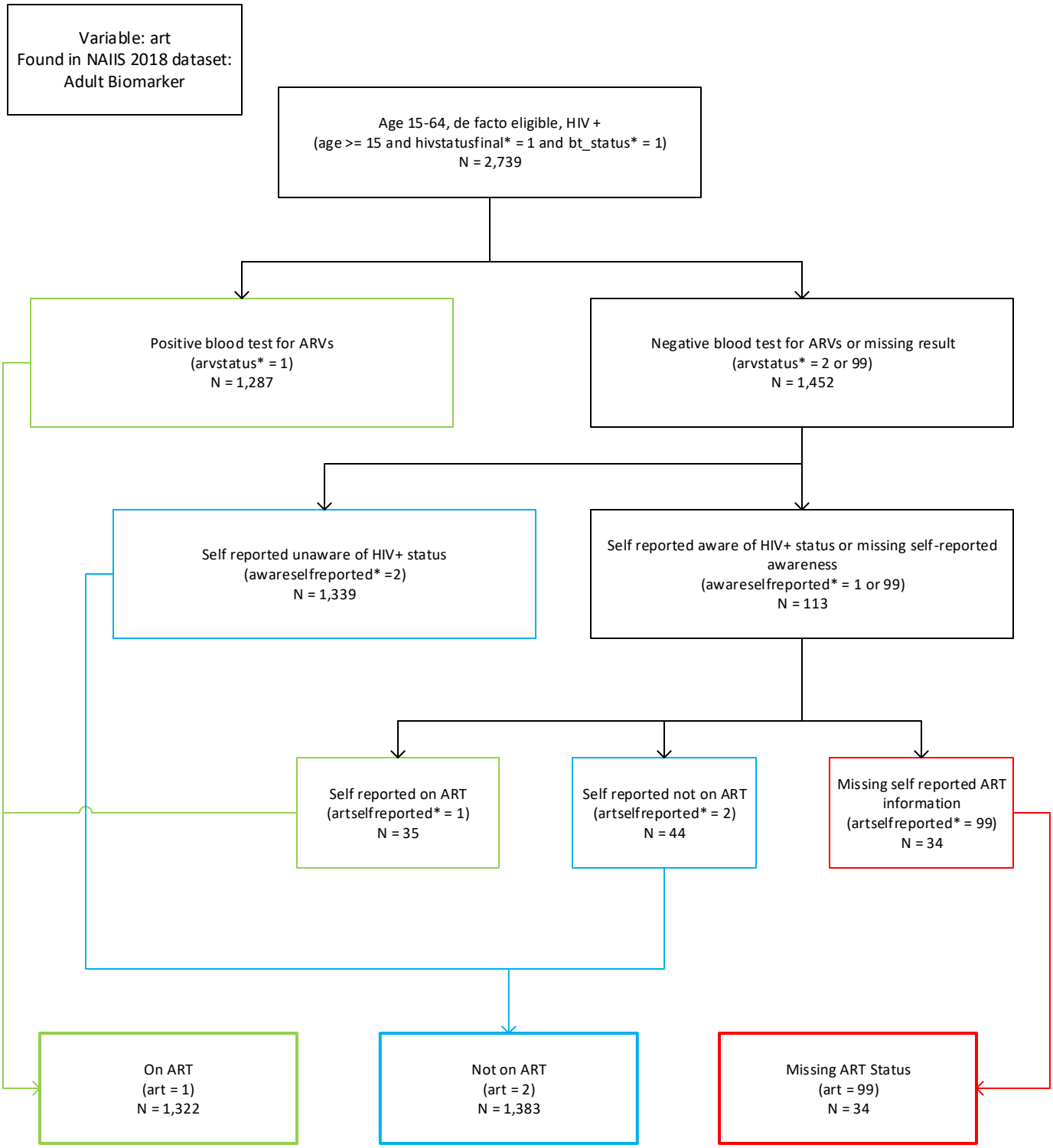
IV. CONSORT Diagrams for Analytic Variables

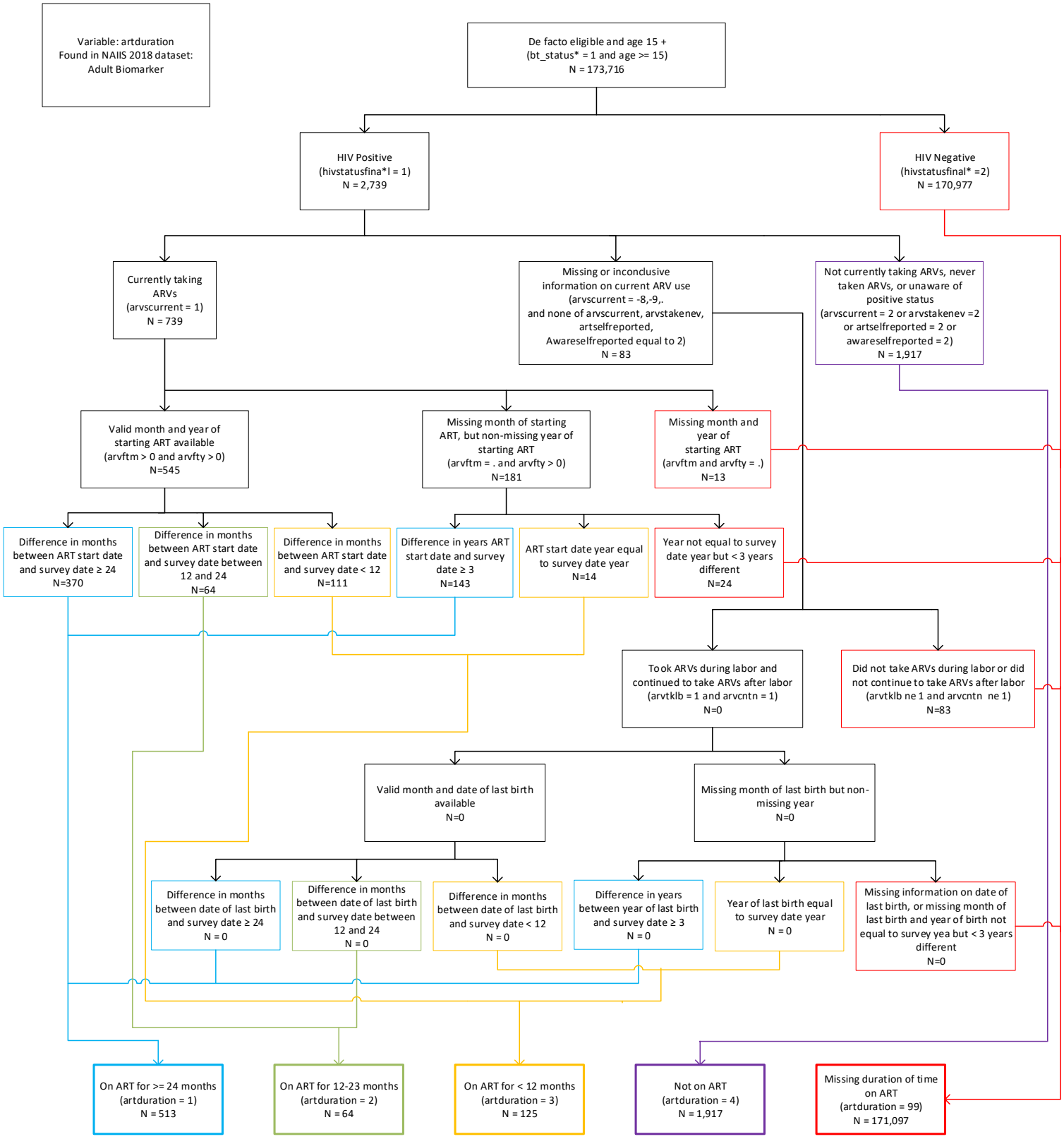
This section contains CONSORT diagrams for analytic variables provided in NAIIS 2018 datasets. These diagrams are designed to facilitate use of analytic variables by illustrating which source variables are incorporated into each analytic variable and how participants are categorized based on data from these variables.

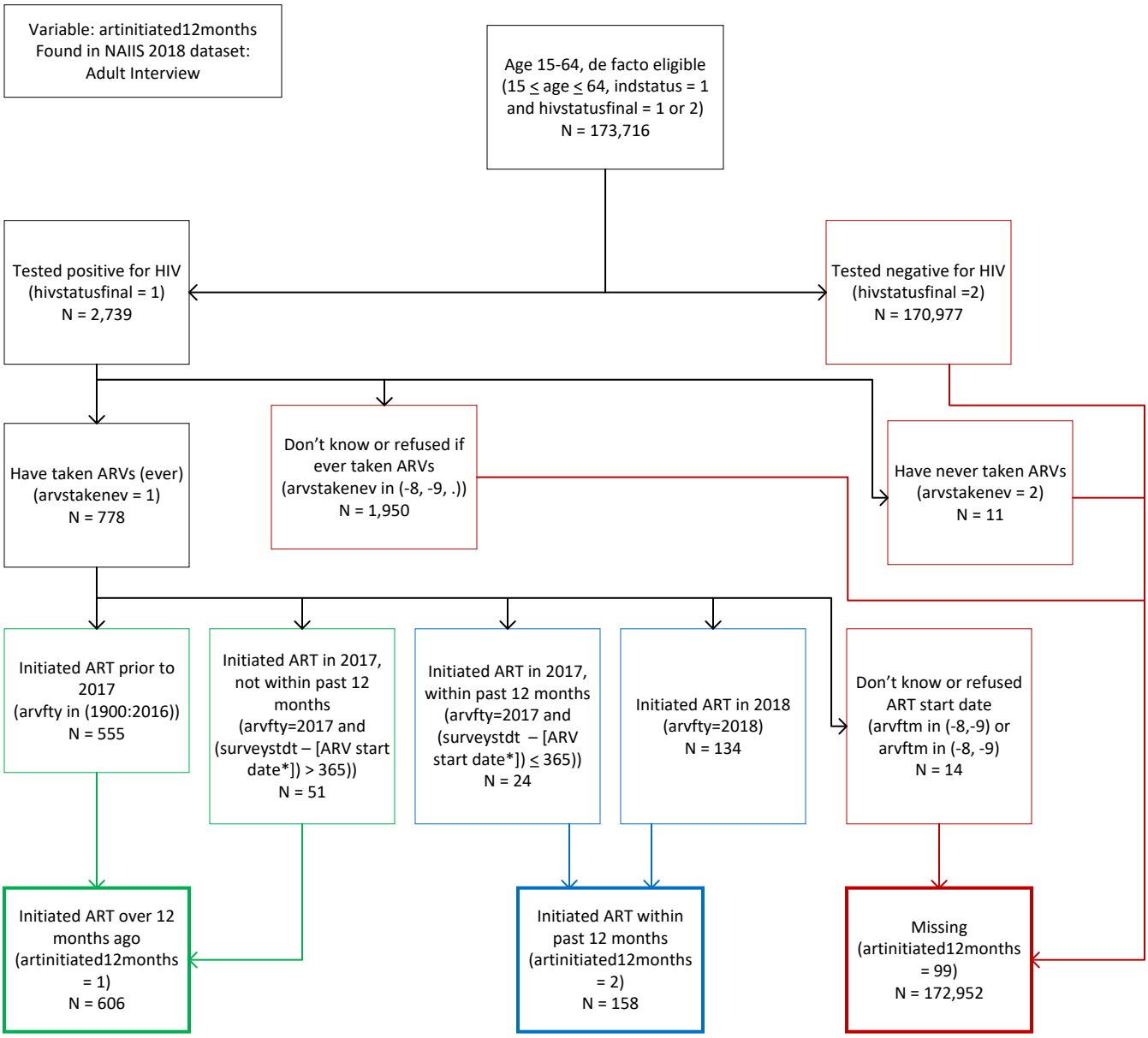
cd4cat	CD4 categories	33
ch_education_ng	Child education level	34
condomlastsex12months	Condom used at last sex in past 12 months	35
delivered3years	Delivered in the last 3 years	36
delivered12months	Delivered in last 12 months	37
diagnosedtb_ng	Diagnosed with TB	38
education	Education level	39
evertested	Ever Tested for HIV	40
firstsxage	How old were you when you had vaginal sex for the very first time?	41
hhstatus	Household Response Status	42
hivstatuslastpregnancy	HIV status last pregnancy	43
indstatus	Indicator of individual eligibility and response status	44
maritalstatus	Marital Status	46
mcwho_ng	Male circumcision	47
mother	Individual is a mother	48
motherawarehiv_ng	Knew HIV+ prior to giving birth	49
noofpregnancies_ng	Number of pregnancies	50
part12monumcat_ng	Number of sexual partners in past 12 months (categorized)	51
pedart	Indicator of whether child is on art combining parent-report and ARV testing	52
pedartparentreported	Indicator of whether parent reports the child age 0-14 is on ART	53
pedaware	Pediatric awareness combining parent-report and ARV testing	54

pedawareparentreported	Indicator of whether parent is aware of child's HIV seropositive status, among children age 0-14	55
pedtri90	Analysis flag for age 0-14 90-90-90 with ARV data	56
pedtri90art	ART recode for age 0-14 90-90-90 with ARV data	57
pedtri90aware	Aware recode for age 0-14 90-90-90 with ARV data	58
pedtri90vls	VLS recode for age 0-14 90-90-90 with ARV data	59
pregnancystatus	Pregnancy Status	60
receivedresult_ng	Ever received HIV test result	61
receivedresult12months_ng	Received HIV test result in past 12 months	62
sexcohabpart_ng	Sex with non-marital, non-cohabiting partner in past 12 months	63
testedpregnancy_ng	Tested for HIV at ANC visit	64
Treatedfortb_ng	Treated for TB	65
tri90	Flag for inclusion in 90-90-90 analysis	66
tri90art	Indicator of whether individual is on ART, for 90-90-90 analysis	67
tri90aware	Indicator of whether individual is aware of their HIV seropositive status for 90-90-90 analysis	68
tri90vls	Indicator of whether individual has suppressed viral load, for 90-90-90 analysis	69
uniontype	Union type	70
Visitedtbclinic_ng	Ever Visited TB Clinic	71

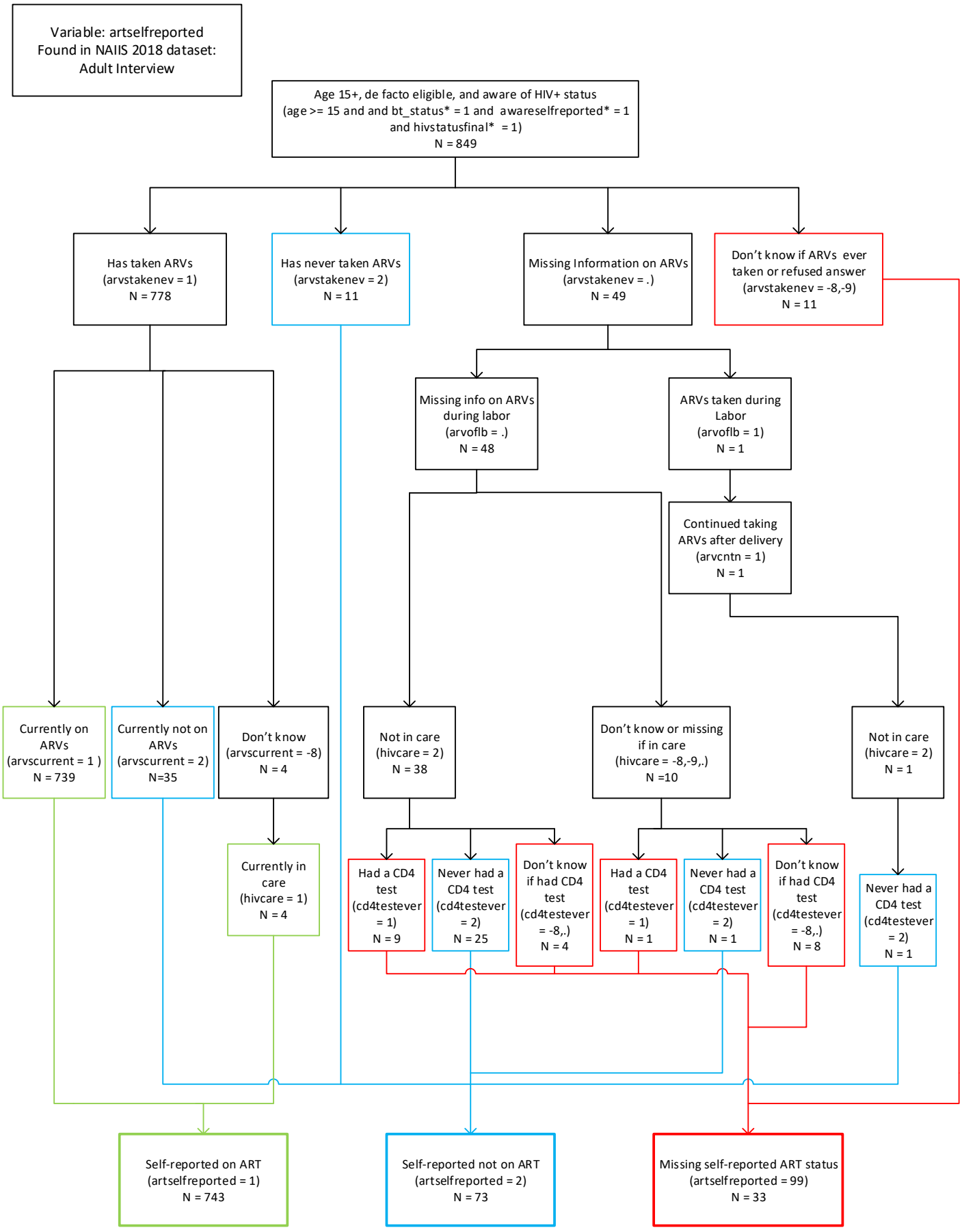

Variable: anclastchild
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-49, de facto eligible
(15 ≤ age ≤ 49 and indstatus = 1)
N = 157,762
Female
(gender = 2)
N = 88,593
Male
(gender = 1)
N = 69,169
Delivered in past 3 years
(delivered3years = 1)
N = 23,612
Did not deliver in past 3 years, or missing
(delivered3years in (2, 3, 99)
N = 64,981
Visited antenatal care facility during last pregnancy that resulted in a live birth
(prgcare = 1)
N = 18,029
Did not visit antenatal care facility during last pregnancy that resulted in a live birth
(prgcare = 2)
N = 5,572
Don't know, refused or missing
(prgcare in (-8,-9,.))
N = 11
Visited antenatal care facility
(anclastchild = 1)
N = 18,029
Did not visit antenatal care facility
(anclastchild = 2)
N = 5,572
Missing
(anclastchild = 99)
N = 134,161

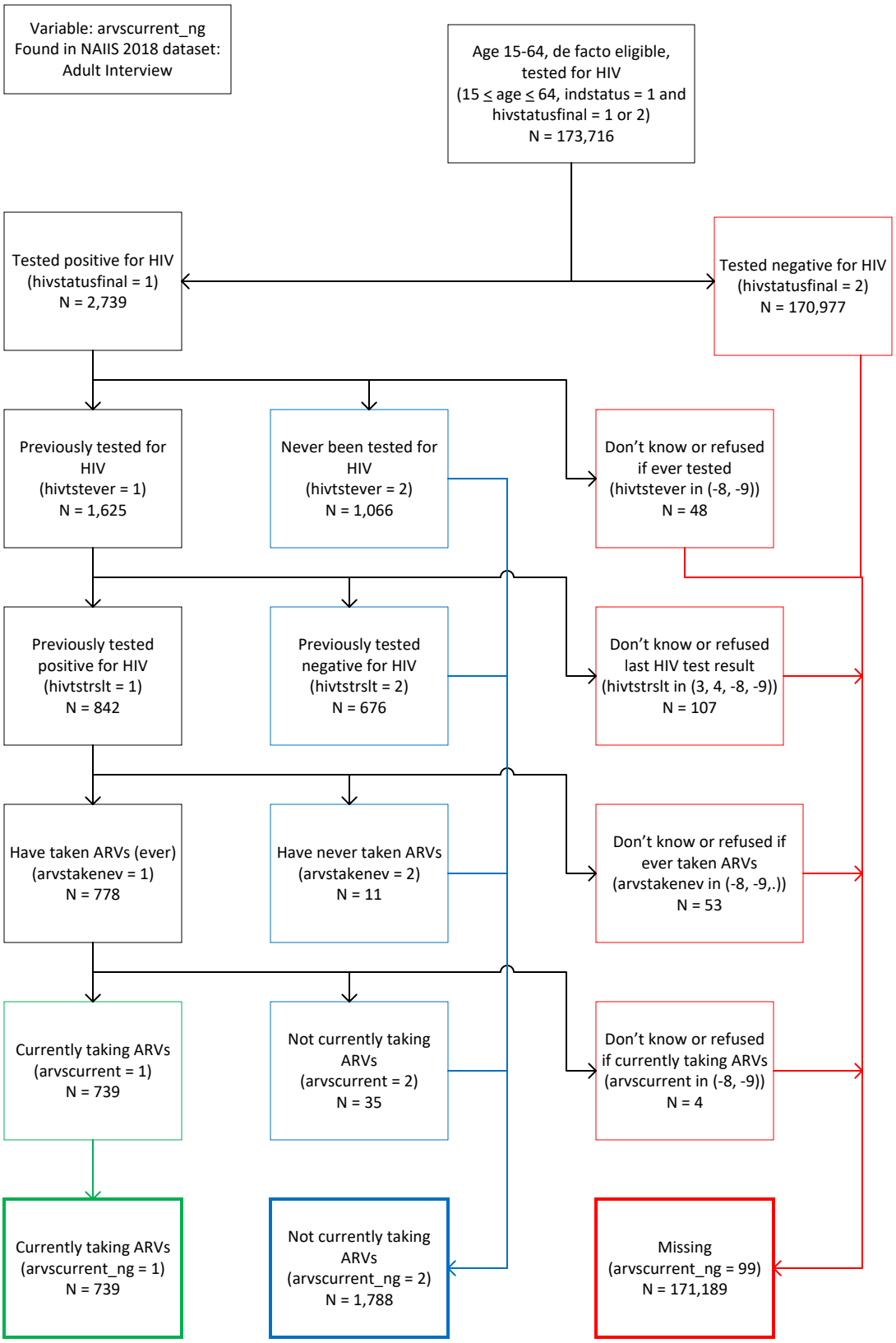

Variable: art
Found in NAIIS 2018 dataset: Adult Biomarker
Age 15-64, de facto eligible, HIV +
(age >= 15 and hivstatusfinal* = 1 and bt_status* = 1)
N = 2,739
Positive blood test for ARVs
(arvstatus* = 1)
N = 1,287
Negative blood test for ARVs or missing result
(arvstatus* = 2 or 99)
N = 1,452
Self reported unaware of HIV+ status
(awareselfreported* =2)
N = 1,339
Self reported aware of HIV+ status or missing self-reported awareness
(awareselfreported* = 1 or 99)
N = 113
Self reported on ART
(artselfreported* = 1)
N = 35
Self reported not on ART
(artselfreported* = 2)
N = 44
Missing self reported ART information
(artselfreported* = 99)
N = 34
On ART
(art = 1)
N = 1,322
Not on ART
(art = 2)
N = 1,383
Missing ART Status
(art = 99)
N = 34

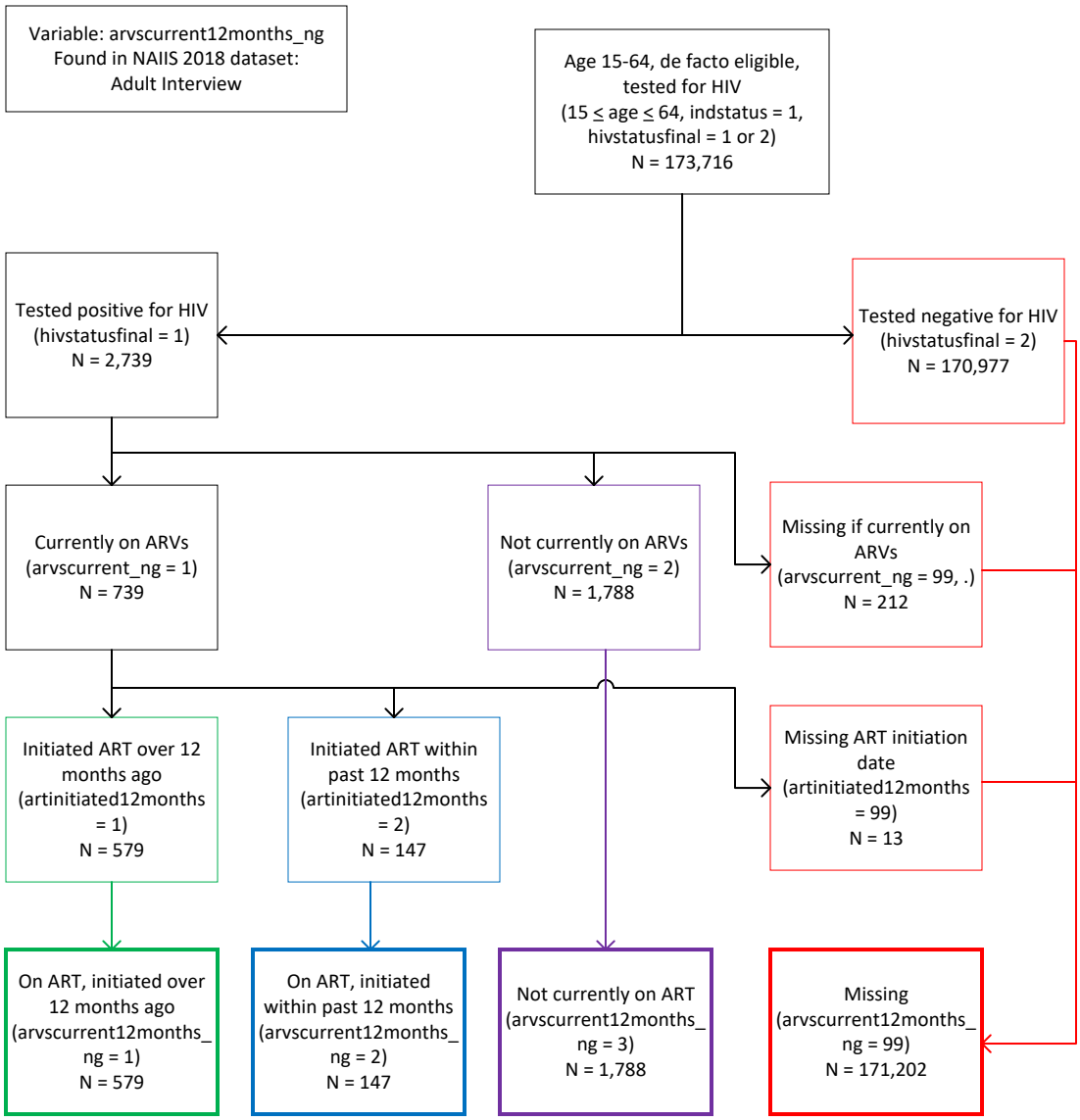

Variable: artduration
Found in NAIIS 2018 dataset:
Adult Biomarker
De facto eligible and age 15 +
(bt_status* = 1 and age >= 15)
N = 173,716
HIV Positive
(hivstatusfina*l = 1)
N = 2,739
HIV Negative
(hivstatusfinal* =2)
N = 170,977
Currently taking ARVs
(arvscurrent = 1)
N = 739
Missing or inconclusive information on current ARV use
(arvscurrent = -8,-9,.
and none of arvscurrent, arvstakenev, artselfreported, Awareselfreported equal to 2)
N = 83
Not currently taking ARVs, never taken ARVs, or unaware of positive status
(arvscurrent = 2 or arvstakenev =2 or artselfreported = 2 or awareselfreported = 2)
N = 1,917
Valid month and year of starting ART available
(arvftm > 0 and arvfty > 0)
N=545
Missing month of starting ART, but non-missing year of starting ART
(arvftm = . and arvfty > 0)
N=181
Missing month and year of starting ART
(arvftm and arvfty = .)
N=13
Difference in months between ART start date and survey date ≥ 24
N=370
Difference in months between ART start date and survey date between 12 and 24
N=64
Difference in months between ART start date and survey date < 12
N=111
Difference in years ART start date and survey date ≥ 3
N=143
ART start date year equal to survey date year
N=14
Year not equal to survey date year but < 3 years different
N=24
Took ARVs during labor and continued to take ARVs after labor
(arvtklb = 1 and arvcntn = 1)
N=0
Did not take ARVs during labor or did not continue to take ARVs after labor
(arvtklb ne 1 and arvcntn ne 1)
N=83
Valid month and date of last birth available
N=0
Missing month of last birth but non-missing year
N=0
Difference in months between date of last birth and survey date ≥ 24
N = 0
Difference in months between date of last birth and survey date between 12 and 24
N = 0
Difference in months between date of last birth and survey date < 12
N = 0
Difference in years between year of last birth and survey date ≥ 3
N = 0
Year of last birth equal to survey date year
N = 0
Missing information on date of last birth, or missing month of last birth and year of birth not equal to survey yea but < 3 years different
N=0
On ART for >= 24 months
(artduration = 1)
N = 513
On ART for 12-23 months
(artduration = 2)
N = 64
On ART for < 12 months
(artduration = 3)
N = 125
Not on ART
(artduration = 4)
N = 1,917
Missing duration of time on ART
(artduration = 99)
N = 171,097

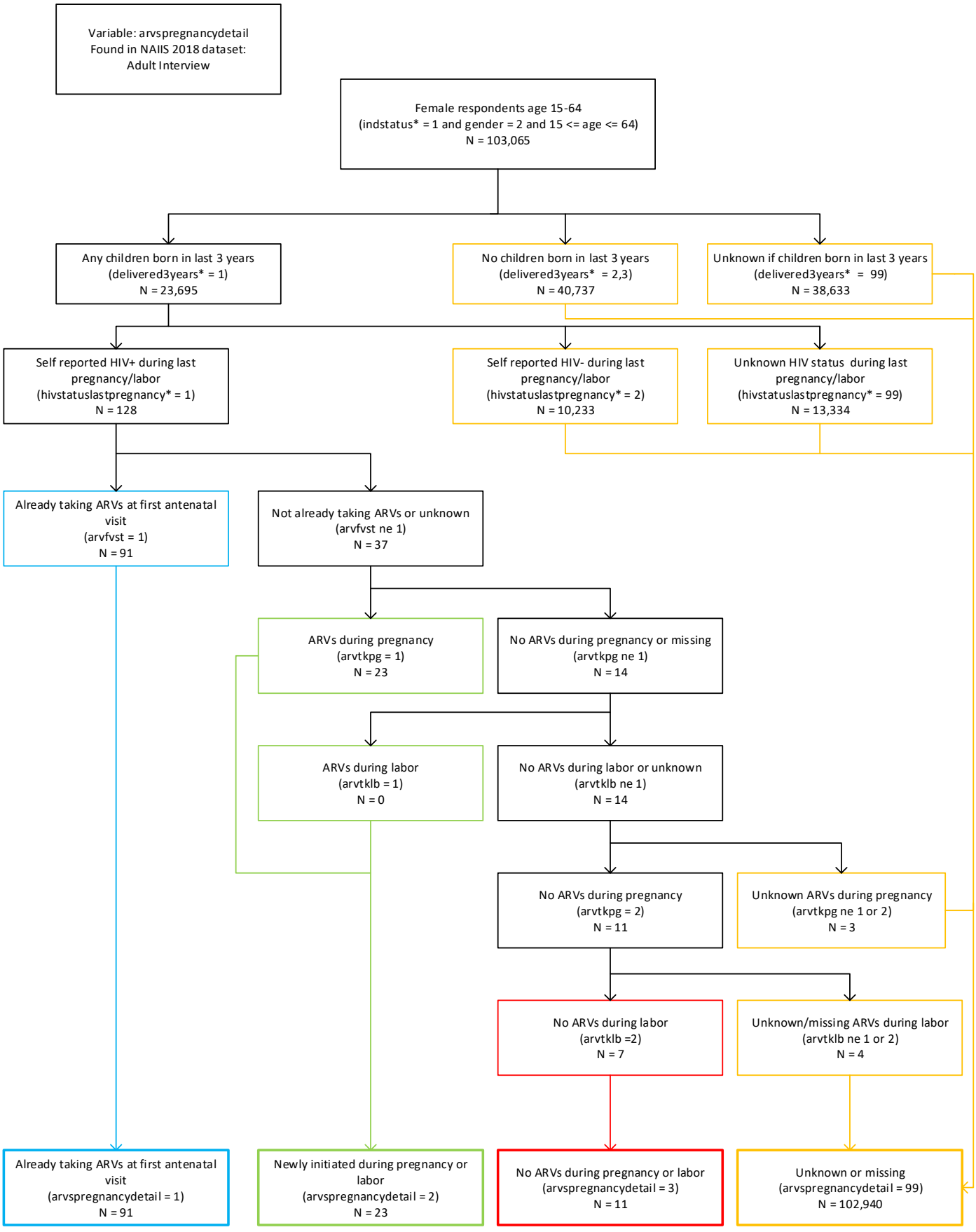


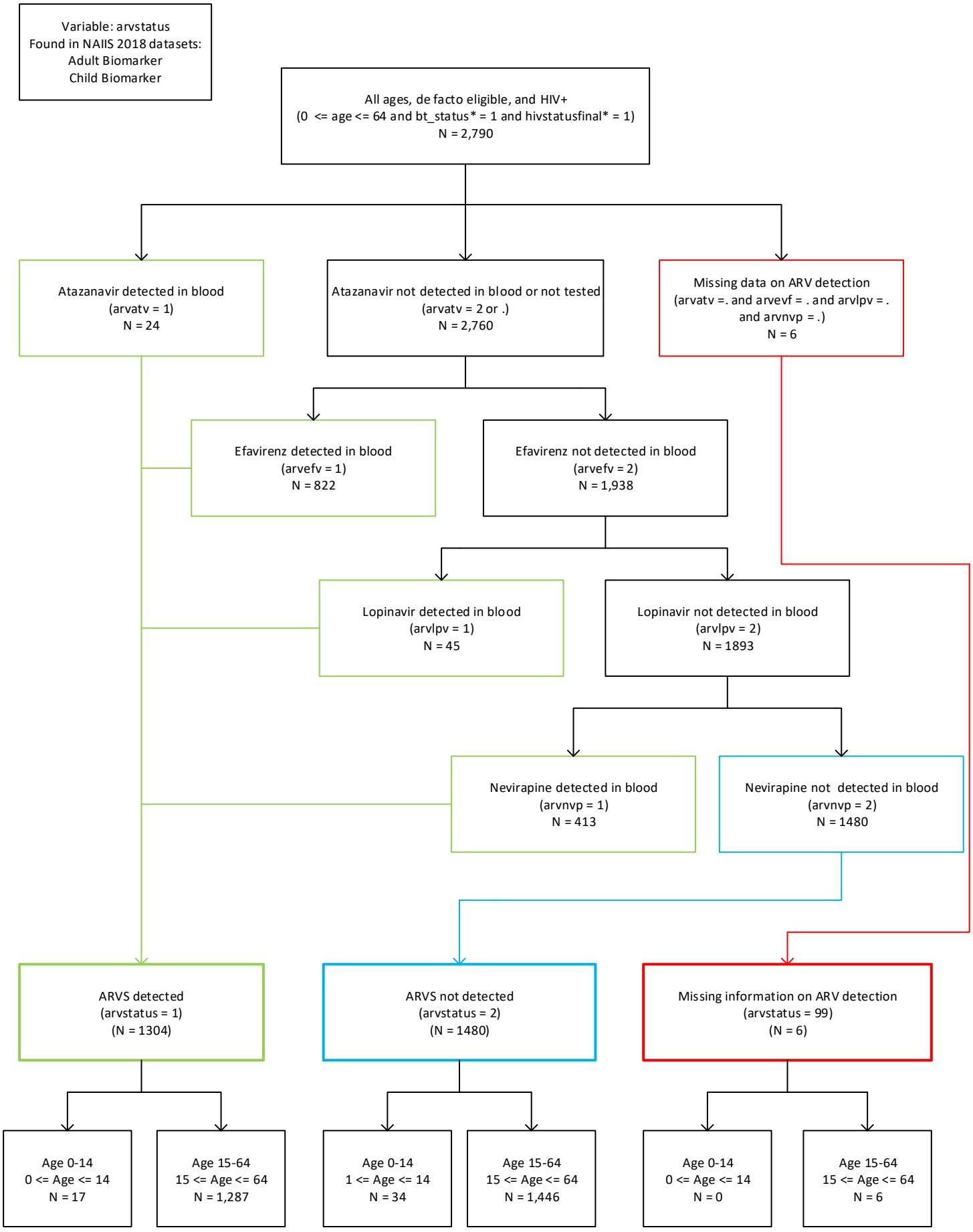
*ARV start date derived from arvftm (month when ARV treatment began) and arvfty (year when ART treatment began). A value of 15 was imputed for day when ART treatment began, as this information was not captured.

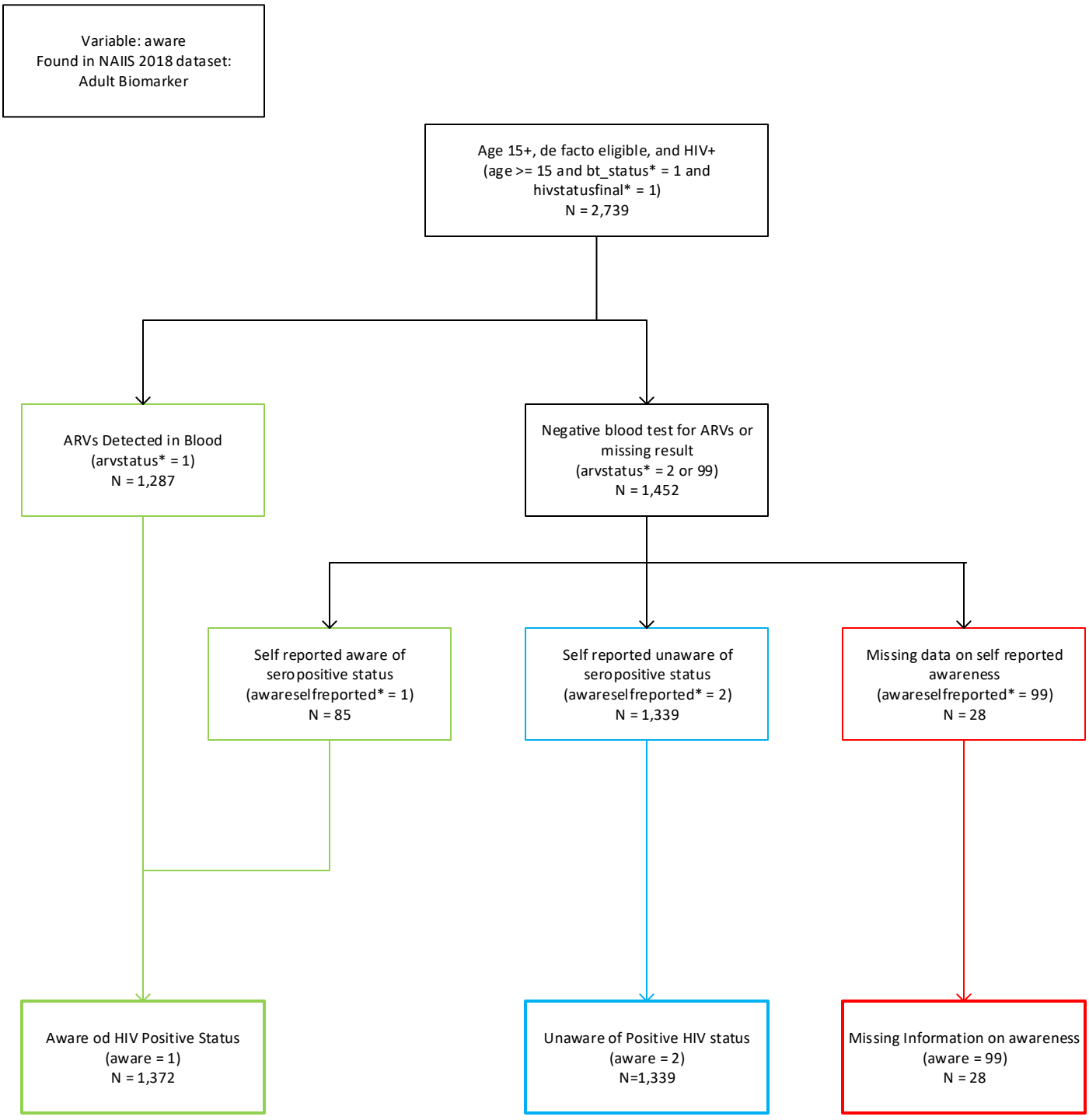

Variable: artselfreported
Found in NAIIS 2018 dataset:
Adult Interview
Age 15+, de facto eligible, and aware of HIV+ status
(age >= 15 and and bt_status* = 1 and awareselfreported* = 1
and hivstatusfinal* = 1)
N = 849
Has taken ARVs
(arvstakenev = 1)
N = 778
Has never taken ARVs
(arvstakenev = 2)
N = 11
Missing Information on ARVs
(arvstakenev = .)
N = 49
Don't know if ARVs ever
taken or refused answer
(arvstakenev = -8,-9)
N = 11
Missing info on ARVs
during labor
(arvoflb = .)
N = 48
ARVs taken during
Labor
(arvoflb = 1)
N = 1
Continued taking
ARVs after delivery
(arvcntn = 1)
N = 1
Currently on
ARVs
(arvscurrent = 1)
N = 739
Currently not on
ARVs
(arvscurrent = 2)
N=35
Don't know
(arvscurrent = -8)
N = 4
Not in care
(hivcare = 2)
N = 38
Don't know or missing
if in care
(hivcare = -8,-9,.)
N =10
Not in care
(hivcare = 2)
N = 1
Currently in
care
(hivcare = 1)
N = 4
Had a CD4
test
(cd4testever
= 1)
N = 9
Never had a
CD4 test
(cd4testever
= 2)
N = 25
Don't know
if had CD4
test
(cd4testever
= -8,.)
N = 4
Had a CD4
test
(cd4testever
= 1)
N = 1
Never had a
CD4 test
(cd4testever
= 2)
N = 1
Don't know
if had CD4
test
(cd4testever
= -8,.)
N = 8
Never had a
CD4 test
(cd4testever
= 2)
N = 1
Self-reported on ART
(artselfreported = 1)
N = 743
Self-reported not on ART
(artselfreported = 2)
N = 73
Missing self-reported ART status
(artselfreported = 99)
N = 33

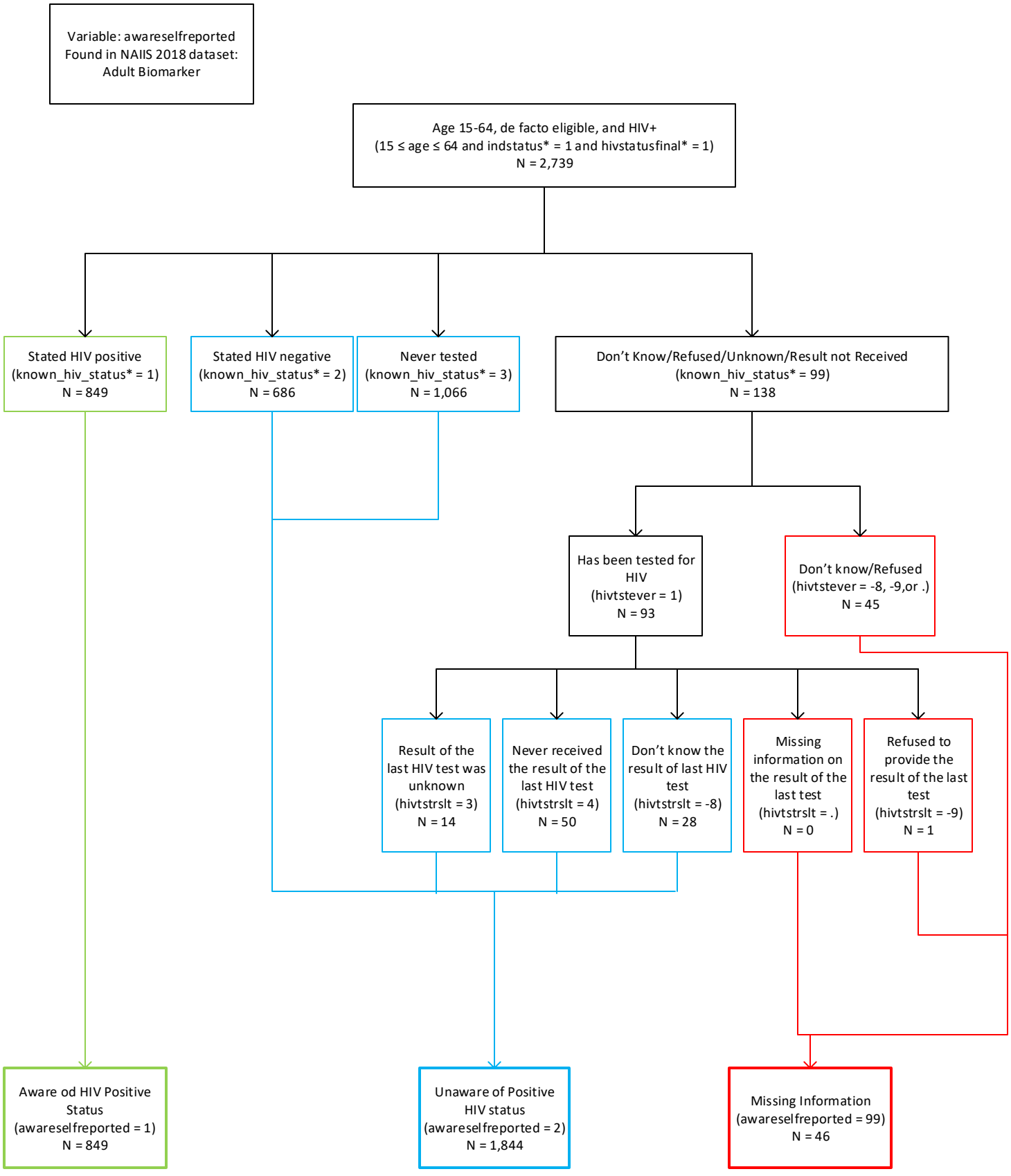

Variable: arvscurrent_ng
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64, de facto eligible, tested for HIV
(15 ≤ age ≤ 64, indstatus = 1 and hivstatusfinal = 1 or 2)
N = 173,716
Tested positive for HIV
(hivstatusfinal = 1)
N = 2,739
Tested negative for HIV
(hivstatusfinal = 2)
N = 170,977
Previously tested for HIV
(hivtstever = 1)
N = 1,625
Never been tested for HIV
(hivtstever = 2)
N = 1,066
Don't know or refused if ever tested
(hivtstever in (-8, -9))
N = 48
Previously tested positive for HIV
(hivtstrslt = 1)
N = 842
Previously tested negative for HIV
(hivtstrslt = 2)
N = 676
Don't know or refused last HIV test result
(hivtstrslt in (3, 4, -8, -9))
N = 107
Have taken ARVs (ever)
(arvstakenev = 1)
N = 778
Have never taken ARVs
(arvstakenev = 2)
N = 11
Don't know or refused if ever taken ARVs
(arvstakenev in (-8, -9,.))
N = 53
Currently taking ARVs
(arvscurrent = 1)
N = 739
Not currently taking ARVs
(arvscurrent = 2)
N = 35
Don't know or refused if currently taking ARVs
(arvscurrent in (-8, -9))
N = 4
Currently taking ARVs
(arvscurrent_ng = 1)
N = 739
Not currently taking ARVs
(arvscurrent_ng = 2)
N = 1,788
Missing
(arvscurrent_ng = 99)
N = 171,189

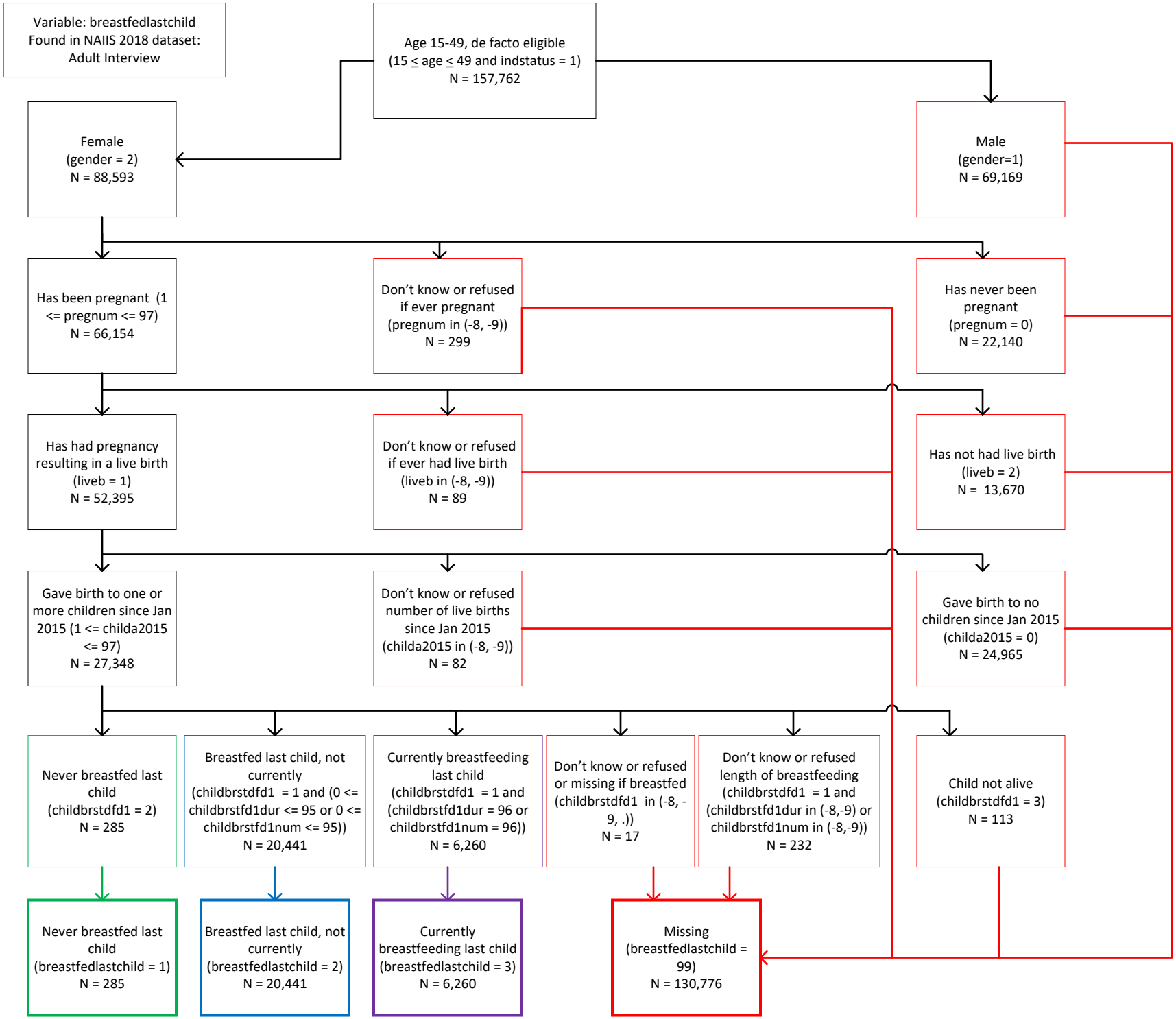

Variable: arvscurrent12months_ng
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64, de facto eligible, tested for HIV
(15 ≤ age ≤ 64, indstatus = 1, hivstatusfinal = 1 or 2)
N = 173,716
Tested positive for HIV
(hivstatusfinal = 1)
N = 2,739
Tested negative for HIV
(hivstatusfinal = 2)
N = 170,977
Currently on ARVs
(arvscurrent_ng = 1)
N = 739
Not currently on ARVs
(arvscurrent_ng = 2)
N = 1,788
Missing if currently on ARVs
(arvscurrent_ng = 99, .)
N = 212
Initiated ART over 12 months ago
(artinitiated12months = 1)
N = 579
Initiated ART within past 12 months
(artinitiated12months = 2)
N = 147
Missing ART initiation date
(artinitiated12months = 99)
N = 13
On ART, initiated over 12 months ago
(arvscurrent12months_ng = 1)
N = 579
On ART, initiated within past 12 months
(arvscurrent12months_ng = 2)
N = 147
Not currently on ART
(arvscurrent12months_ng = 3)
N = 1,788
Missing
(arvscurrent12months_ng = 99)
N = 171,202

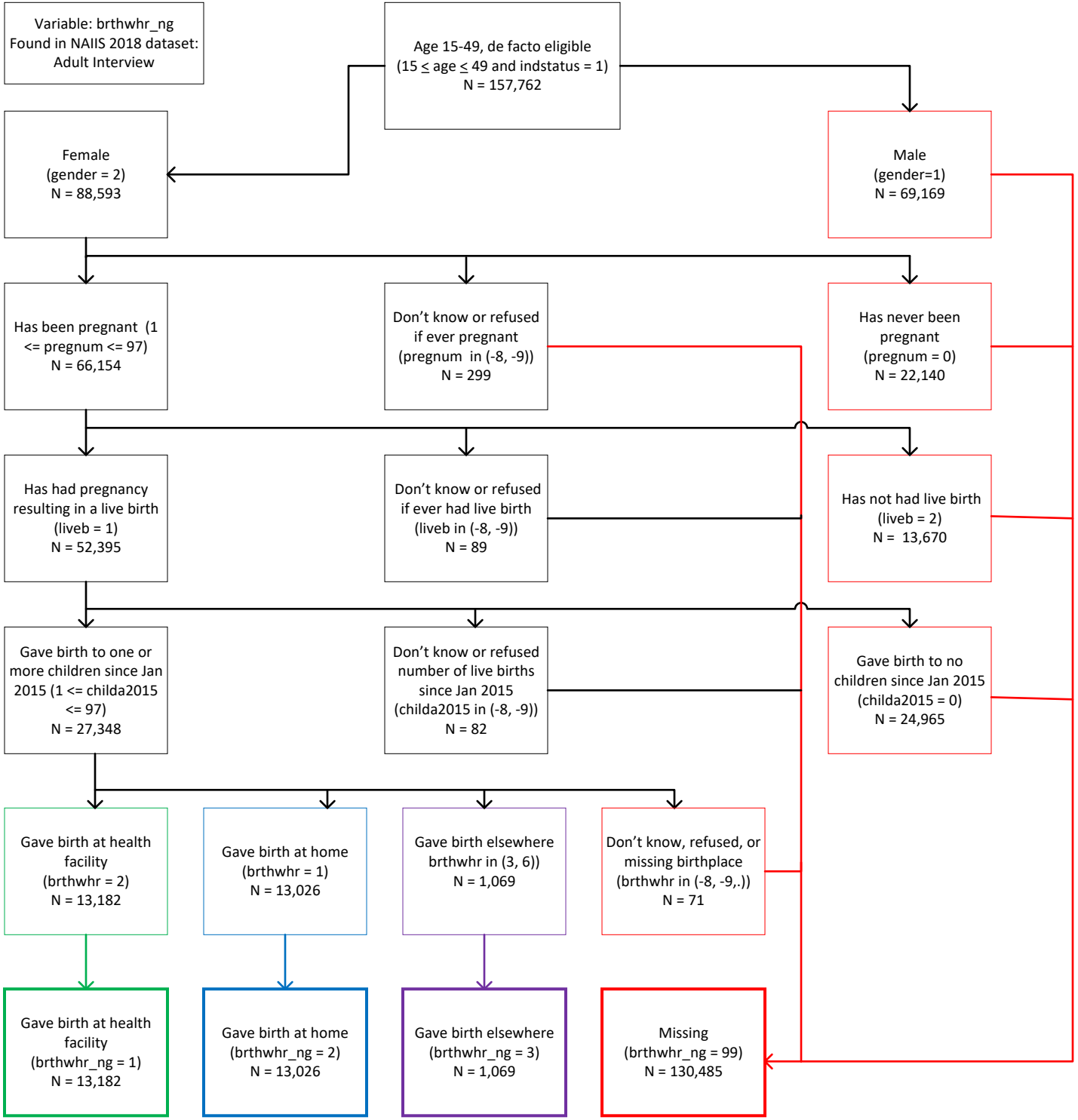

Variable: arvspregnancydetail
Found in NAIIS 2018 dataset:
Adult Interview
Female respondents age 15-64
(indstatus* = 1 and gender = 2 and 15 <= age <= 64)
N = 103,065
Any children born in last 3 years
(delivered3years* = 1)
N = 23,695
No children born in last 3 years
(delivered3years* = 2,3)
N = 40,737
Unknown if children born in last 3 years
(delivered3years* = 99)
N = 38,633
Self reported HIV+ during last pregnancy/labor
(hivstatuslastpregnancy* = 1)
N = 128
Self reported HIV- during last pregnancy/labor
(hivstatuslastpregnancy* = 2)
N = 10,233
Unknown HIV status during last pregnancy/labor
(hivstatuslastpregnancy* = 99)
N = 13,334
Already taking ARVs at first antenatal visit
(arvfvst = 1)
N = 91
Not already taking ARVs or unknown
(arvfvst ne 1)
N = 37
ARVs during pregnancy
(arvtkpg = 1)
N = 23
No ARVs during pregnancy or missing
(arvtkpg ne 1)
N = 14
ARVs during labor
(arvtklb = 1)
N = 0
No ARVs during labor or unknown
(arvtklb ne 1)
N = 14
No ARVs during pregnancy
(arvtkpg = 2)
N = 11
Unknown ARVs during pregnancy
(arvtkpg ne 1 or 2)
N = 3
No ARVs during labor
(arvtklb =2)
N = 7
Unknown/missing ARVs during labor
(arvtklb ne 1 or 2)
N = 4
Already taking ARVs at first antenatal visit
(arvspregnancydetail = 1)
N = 91
Newly initiated during pregnancy or labor
(arvspregnancydetail = 2)
N = 23
No ARVs during pregnancy or labor
(arvspregnancydetail = 3)
N = 11
Unknown or missing
(arvspregnancydetail = 99)
N = 102,940

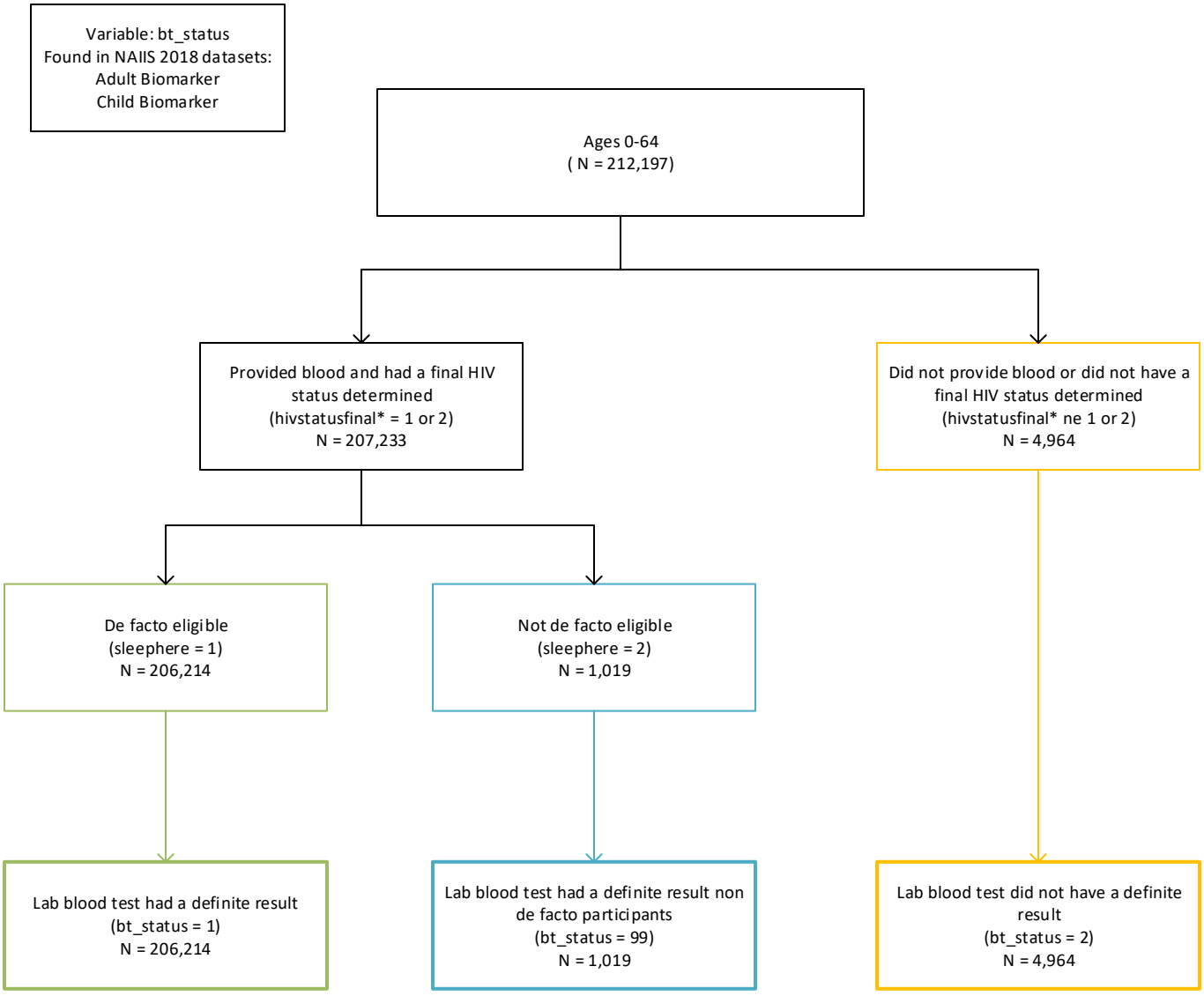

Variable: arvstatus
Found in NAIIS 2018 datasets:
Adult Biomarker
Child Biomarker
All ages, de facto eligible, and HIV+
(0 <= age <= 64 and bt_status* = 1 and hivstatusfinal* = 1)
N = 2,790
Atazanavir detected in blood
(arvatv = 1)
N = 24
Atazanavir not detected in blood or not tested
(arvatv = 2 or .)
N = 2,760
Missing data on ARV detection
(arvatv =. and arvevf = . and arvlpv = .
and arvnvp = .)
N = 6
Efavirenz detected in blood
(arvefv = 1)
N = 822
Efavirenz not detected in blood
(arvefv = 2)
N = 1,938
Lopinavir detected in blood
(arvlpv = 1)
N = 45
Lopinavir not detected in blood
(arvlpv = 2)
N = 1893
Nevirapine detected in blood
(arvnvp = 1)
N = 413
Nevirapine not detected in blood
(arvnvp = 2)
N = 1480
ARVS detected
(arvstatus = 1)
(N = 1304)
ARVS not detected
(arvstatus = 2)
(N = 1480)
Missing information on ARV detection
(arvstatus = 99)
(N = 6)
Age 0-14
0 <= Age <= 14
N = 17
Age 15-64
15 <= Age <= 64
N = 1,287
Age 0-14
1 <= Age <= 14
N = 34
Age 15-64
15 <= Age <= 64
N = 1,446
Age 0-14
0 <= Age <= 14
N = 0
Age 15-64
15 <= Age <= 64
N = 6

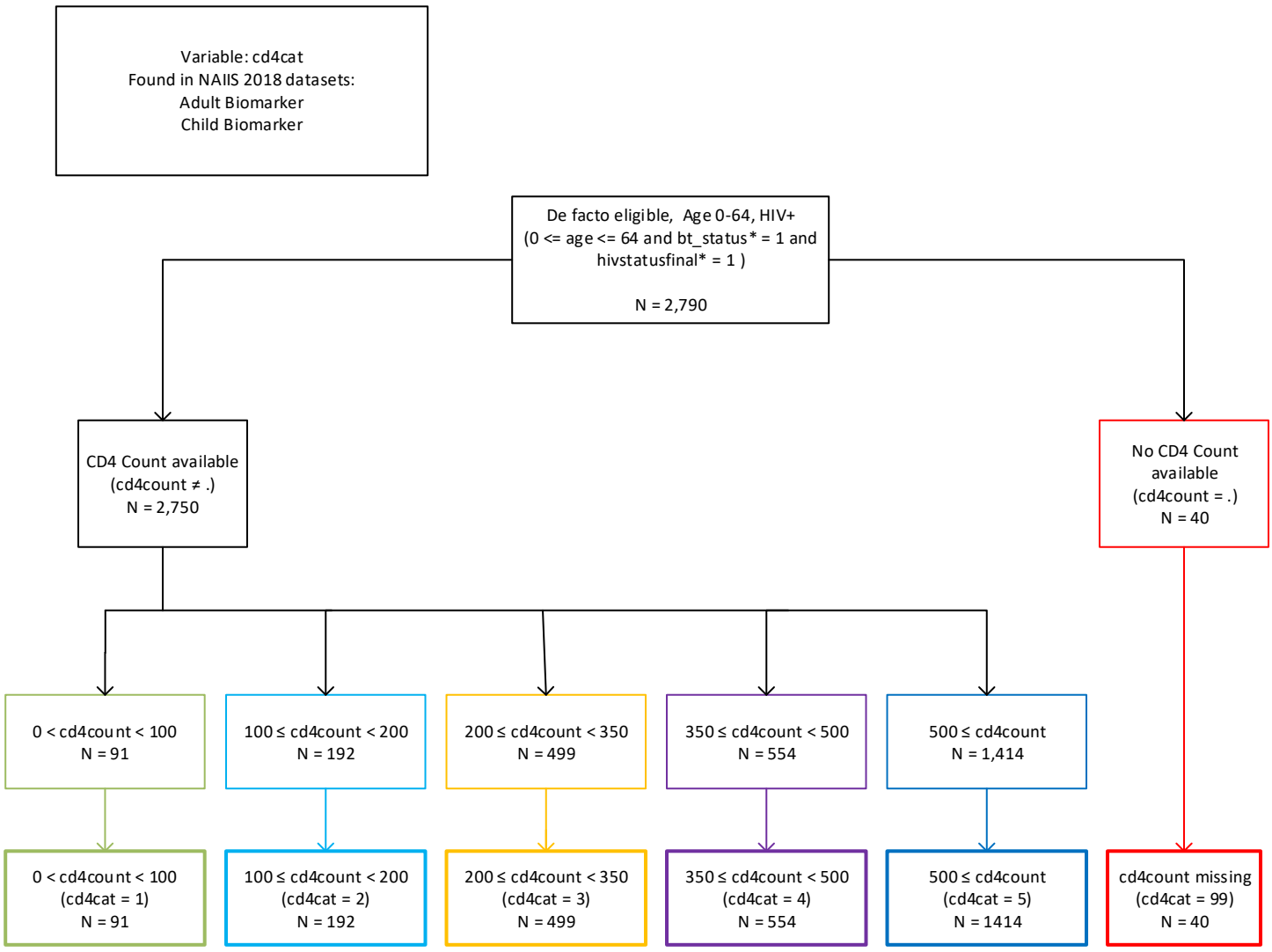

Variable: aware
Found in NAIIS 2018 dataset:
Adult Biomarker
Age 15+, de facto eligible, and HIV+
(age >= 15 and bt_status* = 1 and
hivstatusfinal* = 1)
N = 2,739
ARVs Detected in Blood
(arvstatus* = 1)
N = 1,287
Negative blood test for ARVs or
missing result
(arvstatus* = 2 or 99)
N = 1,452
Self reported aware of
seropositive status
(awareselfreported* = 1)
N = 85
Self reported unaware of
seropositive status
(awareselfreported* = 2)
N = 1,339
Missing data on self reported
awareness
(awareselfreported* = 99)
N = 28
Aware od HIV Positive Status
(aware = 1)
N = 1,372
Unaware of Positive HIV status
(aware = 2)
N=1,339
Missing Information on awareness
(aware = 99)
N = 28

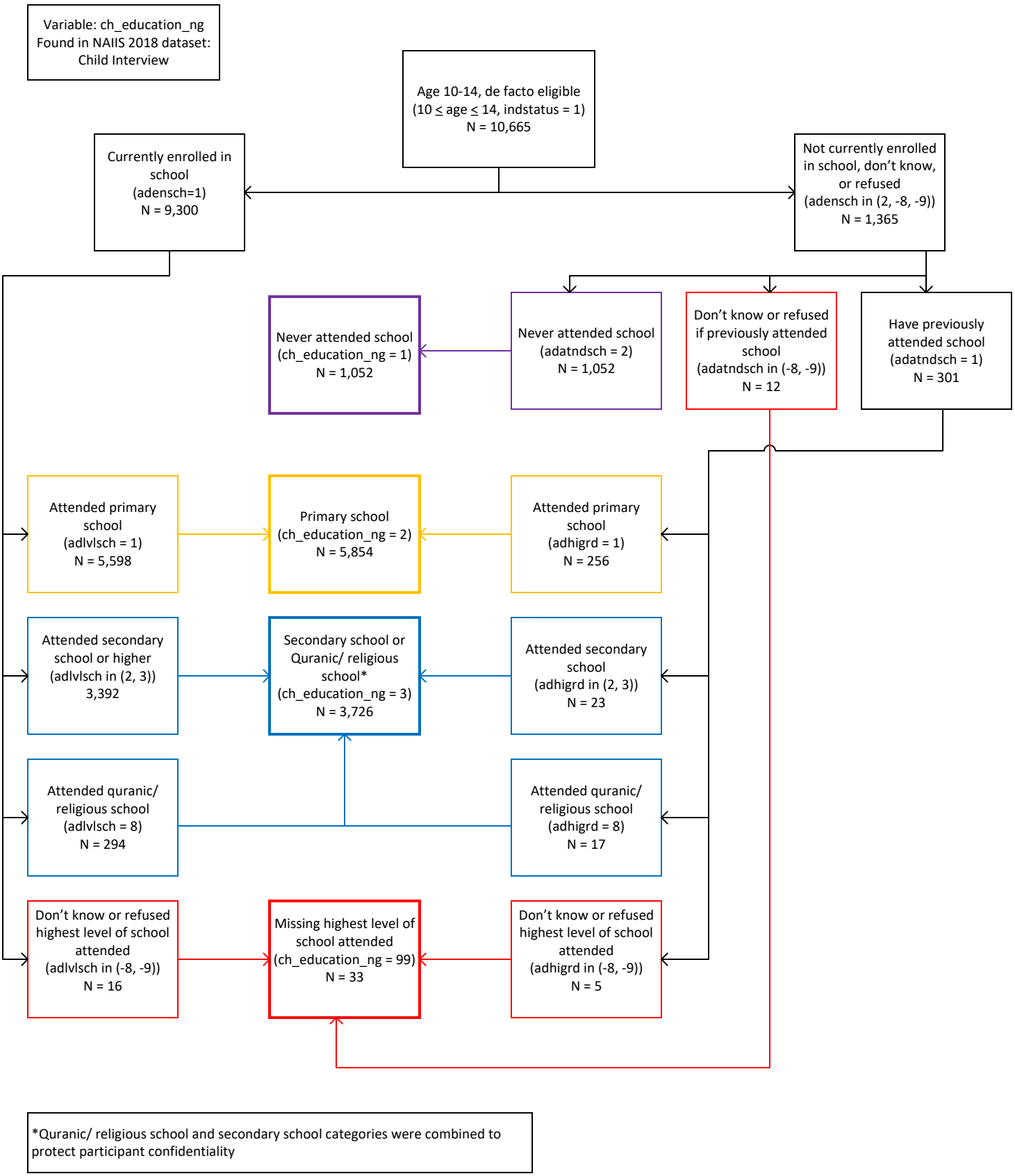

Variable: awareselfreported
Found in NAIIS 2018 dataset: Adult Biomarker
Age 15-64, de facto eligible, and HIV+
(15 ≤ age ≤ 64 and indstatus* = 1 and hivstatusfinal* = 1)
N = 2,739
Stated HIV positive
(known_hiv_status* = 1)
N = 849
Stated HIV negative
(known_hiv_status* = 2)
N = 686
Never tested
(known_hiv_status* = 3)
N = 1,066
Don't Know/Refused/Unknown/Result not Received
(known_hiv_status* = 99)
N = 138
Has been tested for HIV
(hivtstever = 1)
N = 93
Don't know/Refused
(hivtstever = -8, -9,or .)
N = 45
Result of the last HIV test was unknown
(hivtstrslt = 3)
N = 14
Never received the result of the last HIV test
(hivtstrslt = 4)
N = 50
Don't know the result of last HIV test
(hivtstrslt = -8)
N = 28
Missing information on the result of the last test
(hivtstrslt = .)
N = 0
Refused to provide the result of the last test
(hivtstrslt = -9)
N = 1
Aware od HIV Positive Status
(awareselfreported = 1)
N = 849
Unaware of Positive HIV status
(awareselfreported = 2)
N = 1,844
Missing Information
(awareselfreported = 99)
N = 46


Variable: breastfedlastchild
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-49, de facto eligible
(15 ≤ age ≤ 49 and indstatus = 1)
N = 157,762
Female
(gender = 2)
N = 88,593
Male
(gender=1)
N = 69,169
Has been pregnant (1 <= pregnum <= 97)
N = 66,154
Don't know or refused if ever pregnant (pregnum in (-8, -9))
N = 299
Has never been pregnant
(pregnum = 0)
N = 22,140
Has had pregnancy resulting in a live birth
(liveb = 1)
N = 52,395
Don't know or refused if ever had live birth
(liveb in (-8, -9))
N = 89
Has not had live birth
(liveb = 2)
N = 13,670
Gave birth to one or more children since Jan 2015 (1 <= childa2015 <= 97)
N = 27,348
Don't know or refused number of live births since Jan 2015
(childa2015 in (-8, -9))
N = 82
Gave birth to no children since Jan 2015
(childa2015 = 0)
N = 24,965
Never breastfed last child
(childbrstdfd1 = 2)
N = 285
Breastfed last child, not currently
(childbrstdfd1 = 1 and (0 <= childbrstfd1dur <= 95 or 0 <= childbrstfd1num <= 95))
N = 20,441
Currently breastfeeding last child
(childbrstdfd1 = 1 and (childbrstfd1dur = 96 or childbrstfd1num = 96))
N = 6,260
Don't know or refused or missing if breastfed
(childbrstdfd1 in (-8, -9, .))
N = 17
Don't know or refused length of breastfeeding
(childbrstdfd1 = 1 and (childbrstfd1dur in (-8,-9) or childbrstfd1num in (-8,-9))
N = 232
Child not alive
(childbrstdfd1 = 3)
N = 113
Never breastfed last child
(breastfedlastchild = 1)
N = 285
Breastfed last child, not currently
(breastfedlastchild = 2)
N = 20,441
Currently breastfeeding last child
(breastfedlastchild = 3)
N = 6,260
Missing
(breastfedlastchild = 99)
N = 130,776

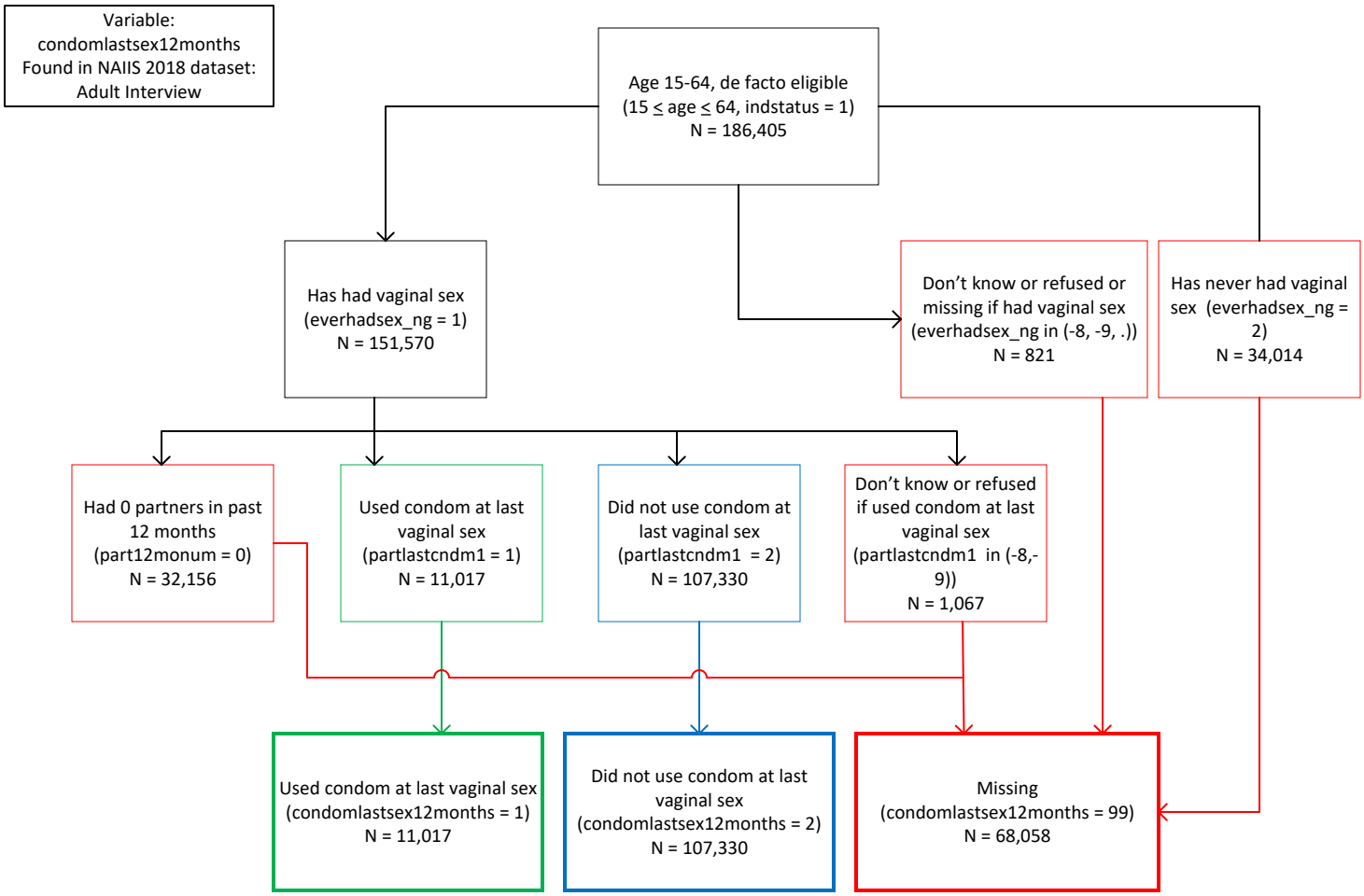

Variable: brthwhr_ng
Found in NAIIS 2018 dataset: Adult Interview
Age 15-49, de facto eligible
(15 ≤ age ≤ 49 and indstatus = 1)
N = 157,762
Female
(gender = 2)
N = 88,593
Male
(gender=1)
N = 69,169
Has been pregnant (1 <= pregnum <= 97)
N = 66,154
Don't know or refused if ever pregnant
(pregnum in (-8, -9))
N = 299
Has never been pregnant
(pregnum = 0)
N = 22,140
Has had pregnancy resulting in a live birth
(liveb = 1)
N = 52,395
Don't know or refused if ever had live birth
(liveb in (-8, -9))
N = 89
Has not had live birth
(liveb = 2)
N = 13,670
Gave birth to one or more children since Jan 2015 (1 <= childa2015 <= 97)
N = 27,348
Don't know or refused number of live births since Jan 2015
(childa2015 in (-8, -9))
N = 82
Gave birth to no children since Jan 2015
(childa2015 = 0)
N = 24,965
Gave birth at health facility
(brthwhr = 2)
N = 13,182
Gave birth at home
(brthwhr = 1)
N = 13,026
Gave birth elsewhere
brthwhr in (3, 6))
N = 1,069
Don't know, refused, or missing birthplace
(brthwhr in (-8, -9,.))
N = 71
Gave birth at health facility
(brthwhr_ng = 1)
N = 13,182
Gave birth at home
(brthwhr_ng = 2)
N = 13,026
Gave birth elsewhere
(brthwhr_ng = 3)
N = 1,069
Missing
(brthwhr_ng = 99)
N = 130,485

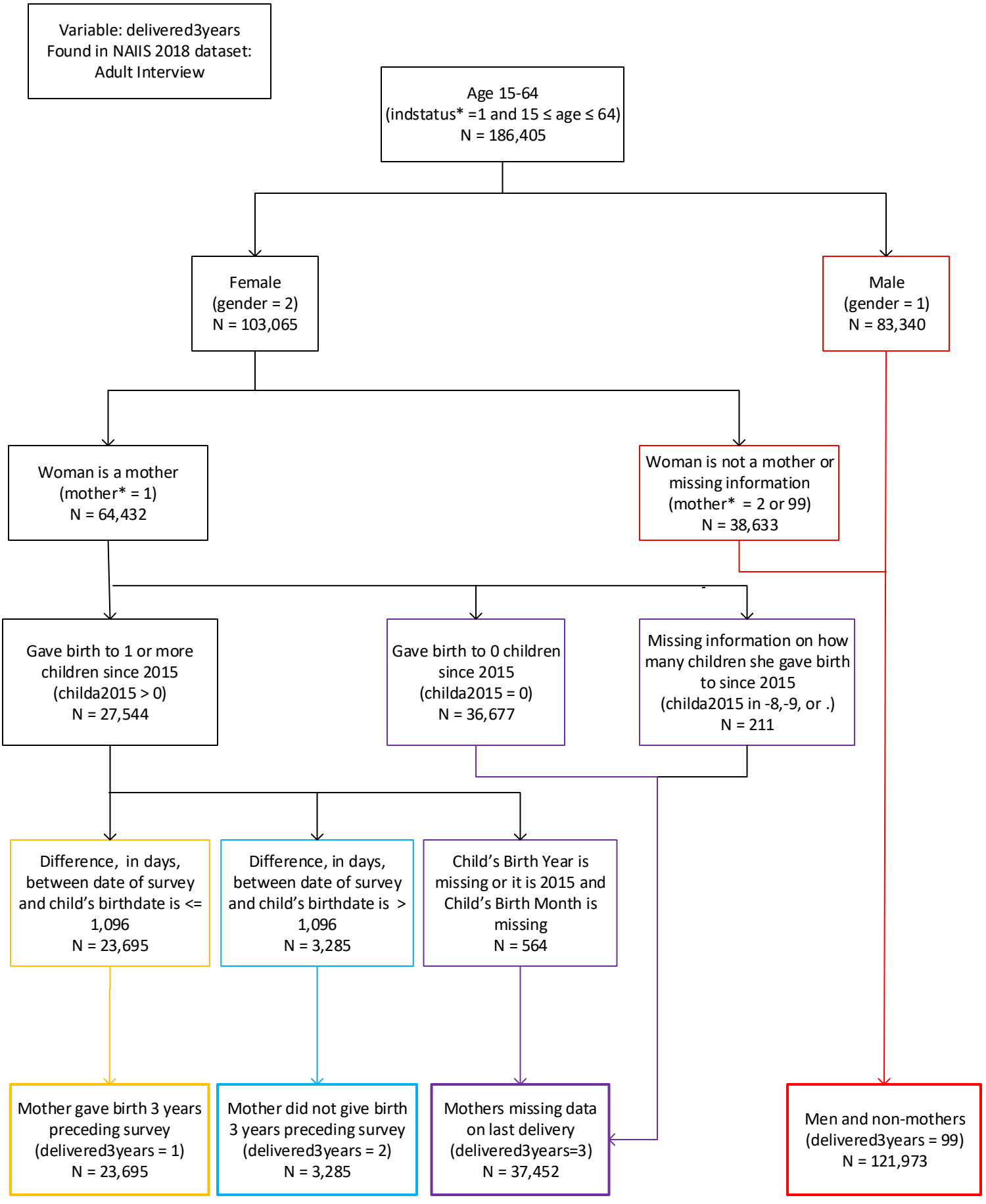

Variable: bt_status
Found in NAIIS 2018 datasets:
Adult Biomarker
Child Biomarker
Ages 0-64
(N = 212,197)
Provided blood and had a final HIV status determined
(hivstatusfinal* = 1 or 2)
N = 207,233
Did not provide blood or did not have a final HIV status determined
(hivstatusfinal* ne 1 or 2)
N = 4,964
De facto eligible
(sleephere = 1)
N = 206,214
Not de facto eligible
(sleephere = 2)
N = 1,019
Lab blood test had a definite result
(bt_status = 1)
N = 206,214
Lab blood test had a definite result non de facto participants
(bt_status = 99)
N = 1,019
Lab blood test did not have a definite result
(bt_status = 2)
N = 4,964

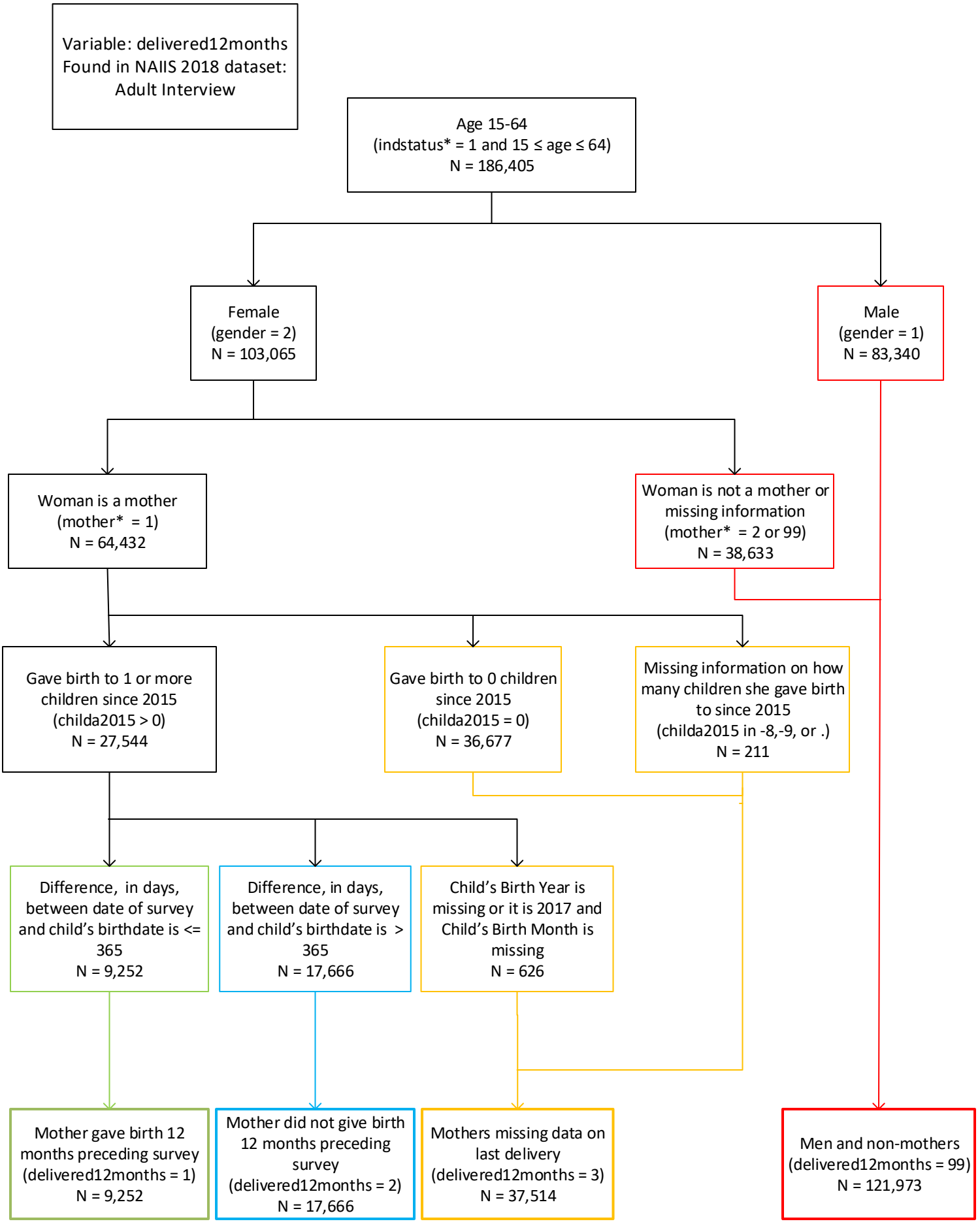

Variable: cd4cat
Found in NAIIS 2018 datasets:
Adult Biomarker
Child Biomarker
De facto eligible, Age 0-64, HIV+
(0 <= age <= 64 and bt_status* = 1 and hivstatusfinal* = 1)
N = 2,790
CD4 Count available
(cd4count ≠ .)
N = 2,750
No CD4 Count available
(cd4count = .)
N = 40
0 < cd4count < 100
N = 91
100 ≤ cd4count < 200
N = 192
200 ≤ cd4count < 350
N = 499
350 ≤ cd4count < 500
N = 554
500 ≤ cd4count
N = 1,414
0 < cd4count < 100
(cd4cat = 1)
N = 91
100 ≤ cd4count < 200
(cd4cat = 2)
N = 192
200 ≤ cd4count < 350
(cd4cat = 3)
N = 499
350 ≤ cd4count < 500
(cd4cat = 4)
N = 554
500 ≤ cd4count
(cd4cat = 5)
N = 1414
cd4count missing
(cd4cat = 99)
N = 40

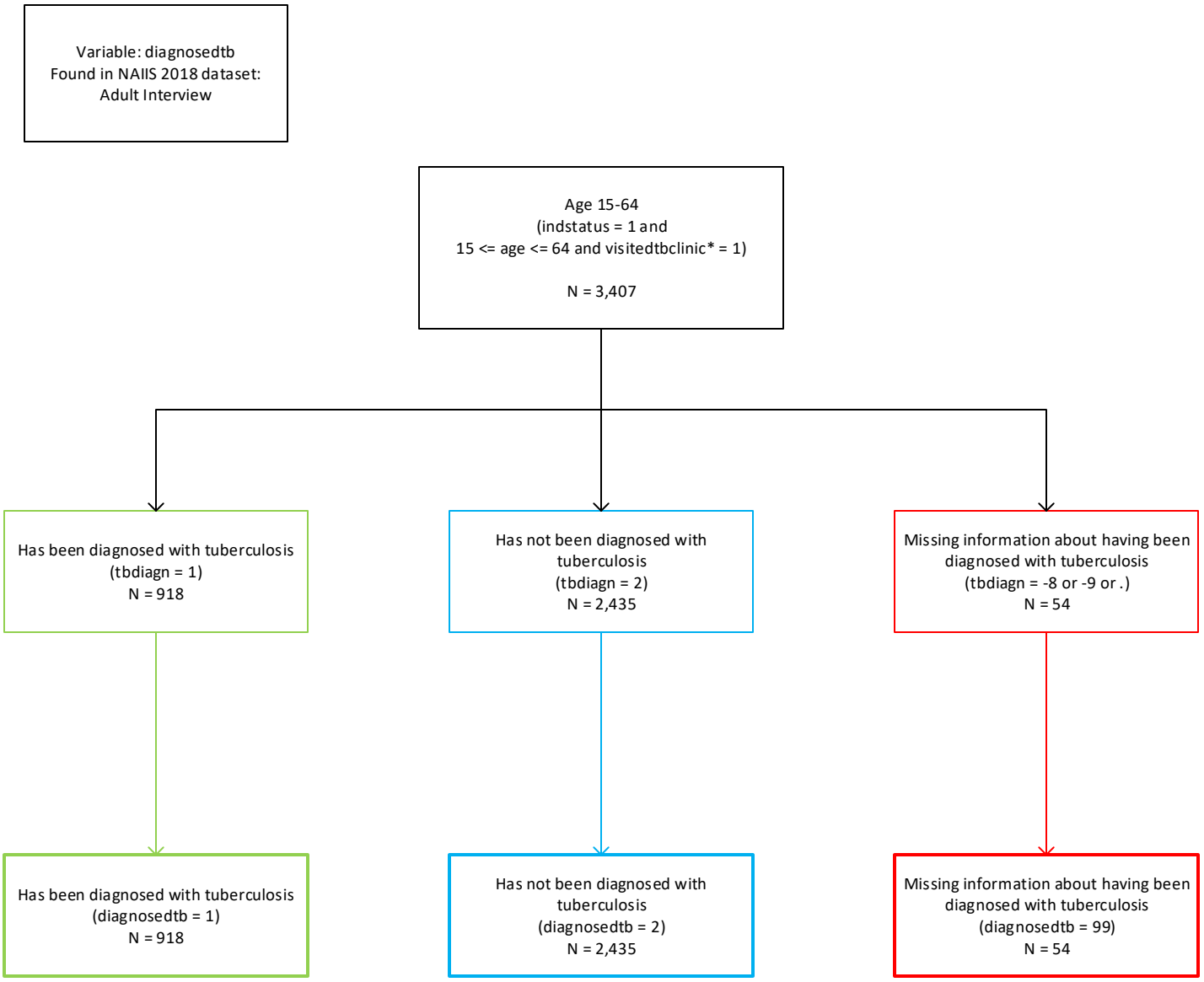


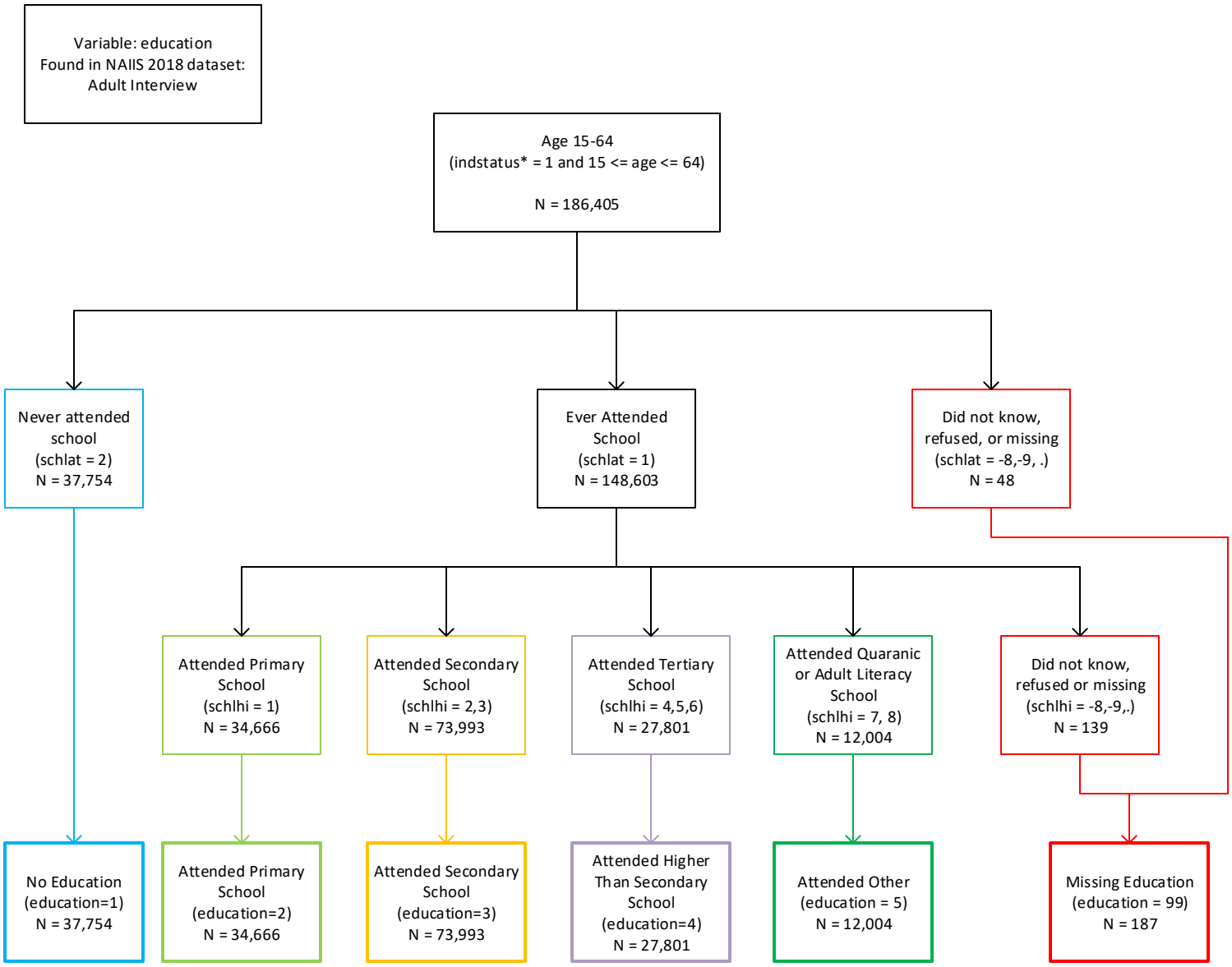
*Quranic/ religious school and secondary school categories were combined to protect participant confidentiality

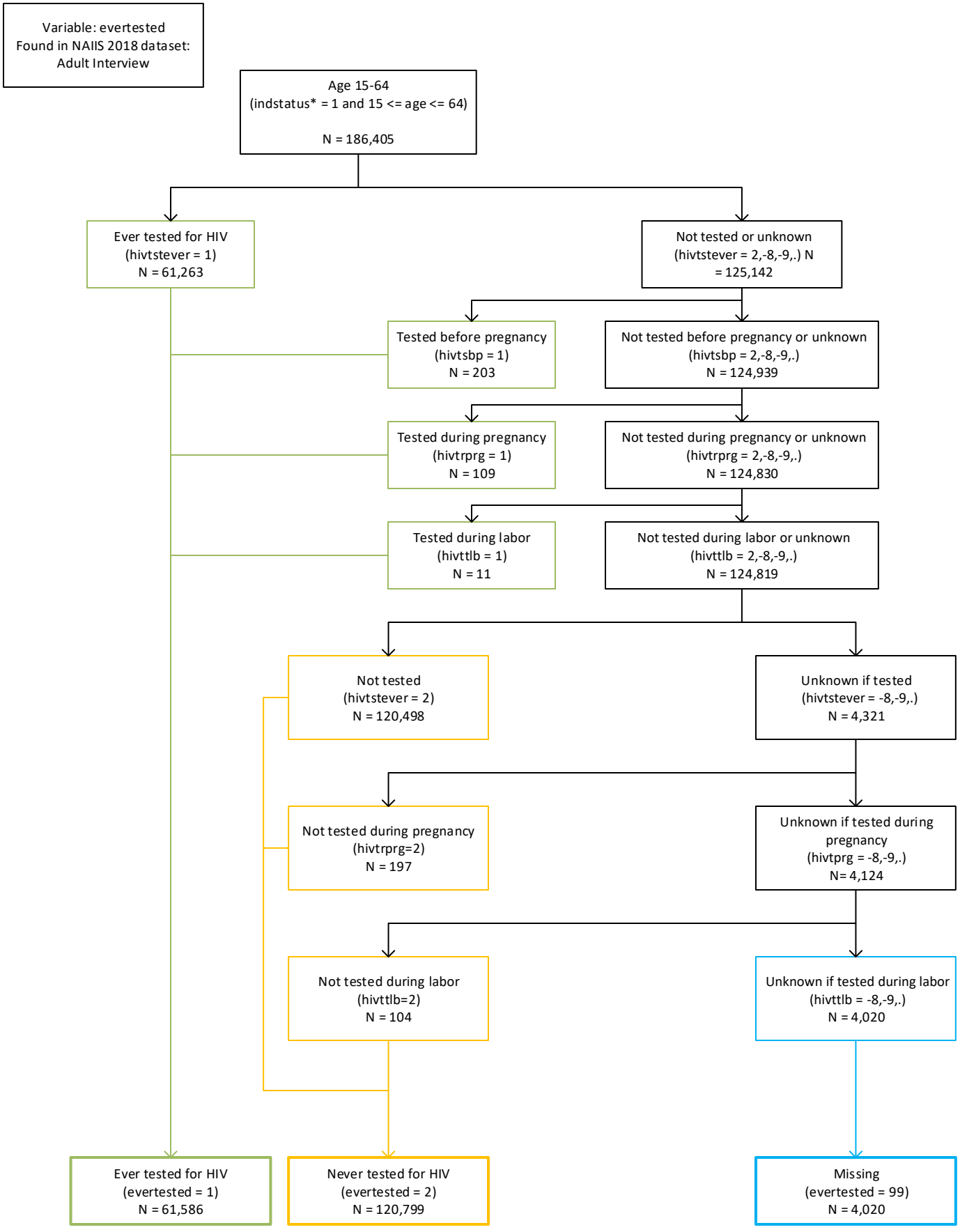

Variable: condomlastsex12months Found in NAIIS 2018 dataset: Adult Interview
Age 15-64, de facto eligible (15 ≤ age ≤ 64, indstatus = 1) N = 186,405
Has had vaginal sex (everhadsex_ng = 1) N = 151,570
Don't know or refused or missing if had vaginal sex (everhadsex_ng in (-8, -9, .)) N = 821
Has never had vaginal sex (everhadsex_ng = 2) N = 34,014
Had 0 partners in past 12 months (part12monum = 0) N = 32,156
Used condom at last vaginal sex (partlastcndm1 = 1) N = 11,017
Did not use condom at last vaginal sex (partlastcndm1 = 2) N = 107,330
Don't know or refused if used condom at last vaginal sex (partlastcndm1 in (-8,-9)) N = 1,067
Used condom at last vaginal sex (condomlastsex12months = 1) N = 11,017
Did not use condom at last vaginal sex (condomlastsex12months = 2) N = 107,330
Missing (condomlastsex12months = 99) N = 68,058

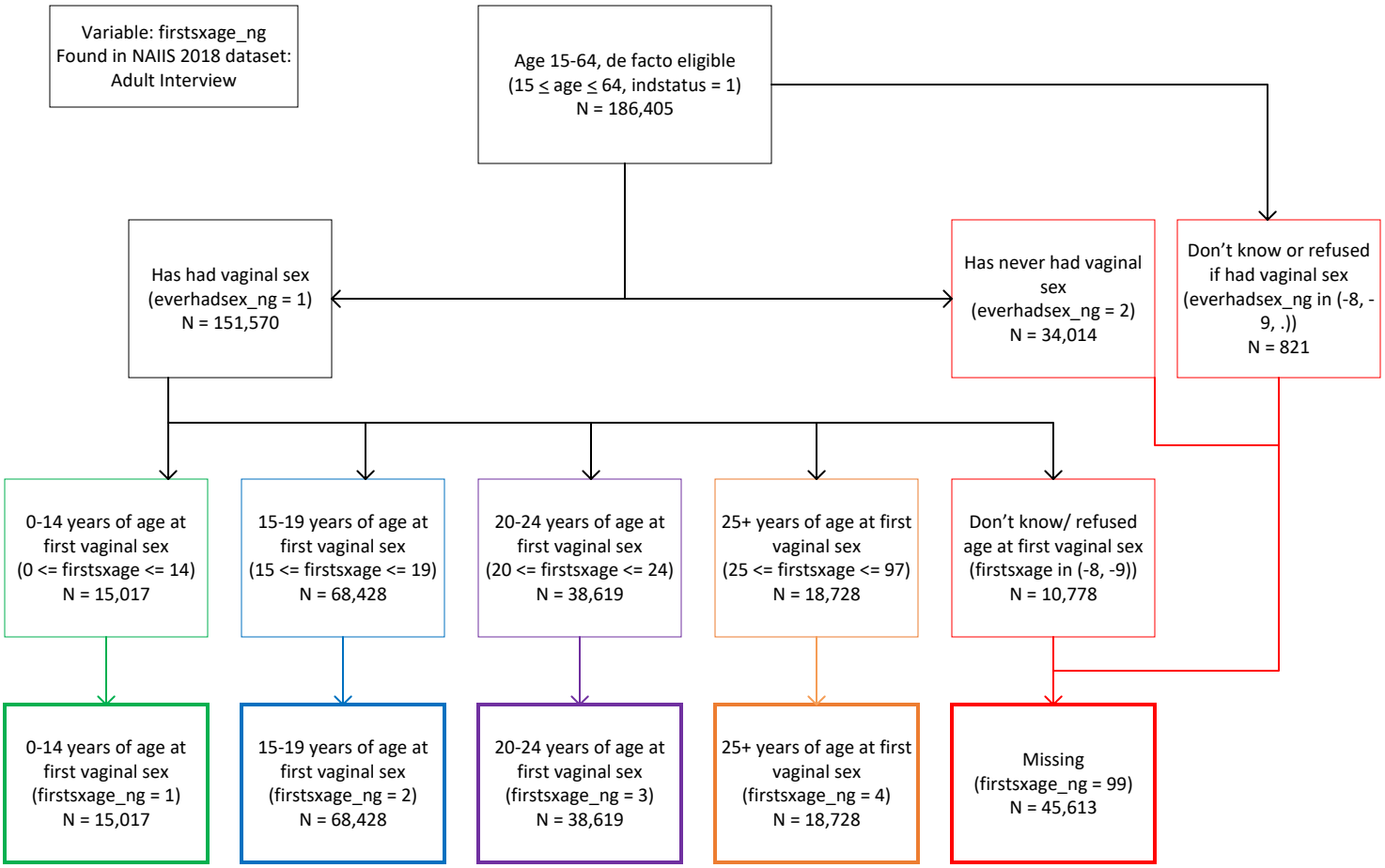

Variable: delivered3years
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64
(indstatus* =1 and 15 ≤ age ≤ 64)
N = 186,405
Female
(gender = 2)
N = 103,065
Male
(gender = 1)
N = 83,340
Woman is a mother
(mother* = 1)
N = 64,432
Woman is not a mother or
missing information
(mother* = 2 or 99)
N = 38,633
Gave birth to 1 or more
children since 2015
(childa2015 > 0)
N = 27,544
Gave birth to 0 children
since 2015
(childa2015 = 0)
N = 36,677
Missing information on how
many children she gave birth
to since 2015
(childa2015 in -8,-9, or .)
N = 211
Difference, in days,
between date of survey
and child's birthdate is <=
1,096
N = 23,695
Difference, in days,
between date of survey
and child's birthdate is >
1,096
N = 3,285
Child's Birth Year is
missing or it is 2015 and
Child's Birth Month is
missing
N = 564
Mother gave birth 3 years
preceding survey
(delivered3years = 1)
N = 23,695
Mother did not give birth
3 years preceding survey
(delivered3years = 2)
N = 3,285
Mothers missing data
on last delivery
(delivered3years=3)
N = 37,452
Men and non-mothers
(delivered3years = 99)
N = 121,973

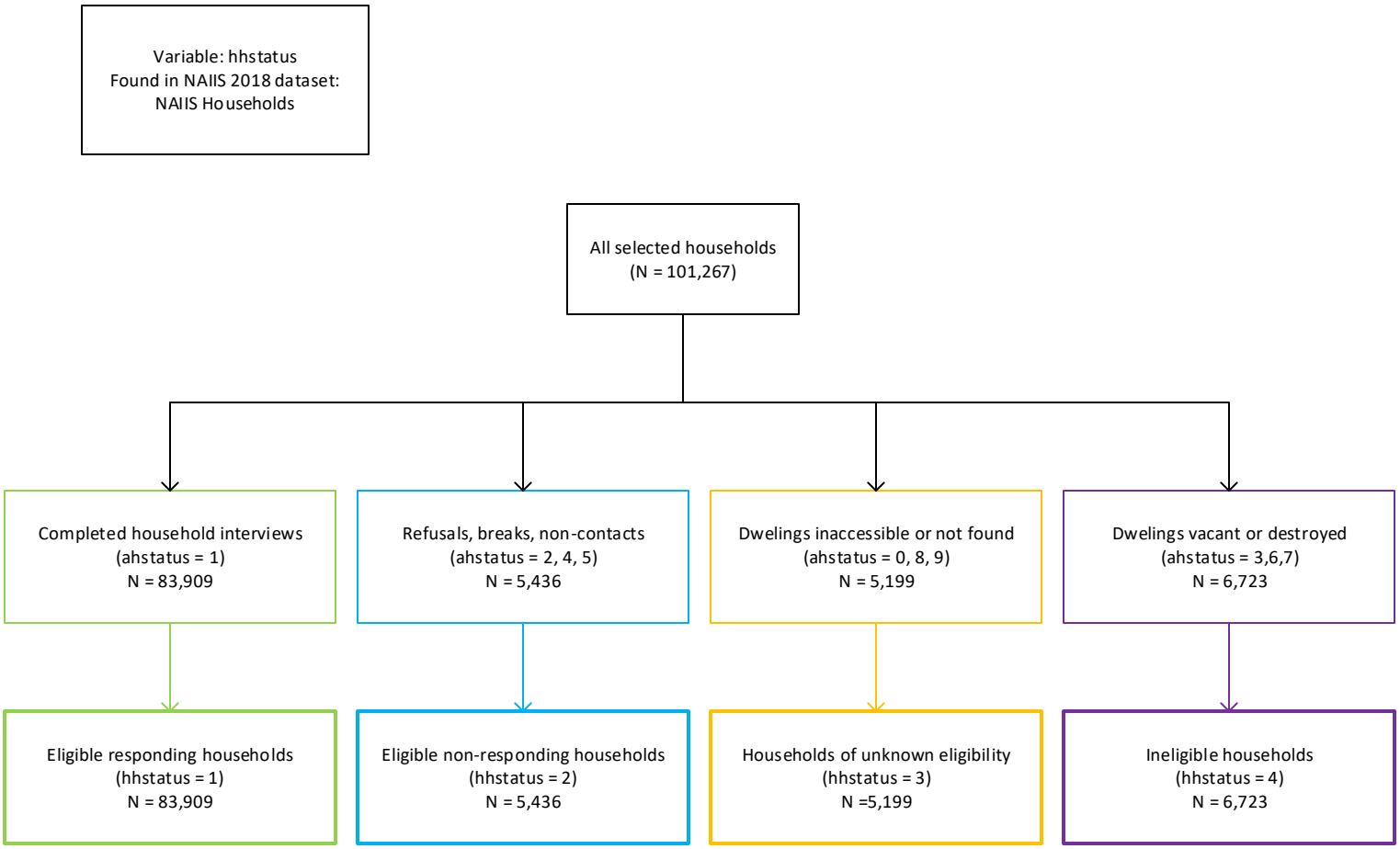

Variable: delivered12months
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64
(indstatus* = 1 and 15 ≤ age ≤ 64)
N = 186,405
Female
(gender = 2)
N = 103,065
Male
(gender = 1)
N = 83,340
Woman is a mother
(mother* = 1)
N = 64,432
Woman is not a mother or missing information
(mother* = 2 or 99)
N = 38,633
Gave birth to 1 or more children since 2015
(childa2015 > 0)
N = 27,544
Gave birth to 0 children since 2015
(childa2015 = 0)
N = 36,677
Missing information on how many children she gave birth to since 2015
(childa2015 in -8,-9, or .)
N = 211
Difference, in days, between date of survey and child's birthdate is <= 365
N = 9,252
Difference, in days, between date of survey and child's birthdate is > 365
N = 17,666
Child's Birth Year is missing or it is 2017 and Child's Birth Month is missing
N = 626
Mother gave birth 12 months preceding survey
(delivered12months = 1)
N = 9,252
Mother did not give birth 12 months preceding survey
(delivered12months = 2)
N = 17,666
Mothers missing data on last delivery
(delivered12months = 3)
N = 37,514
Men and non-mothers
(delivered12months = 99)
N = 121,973

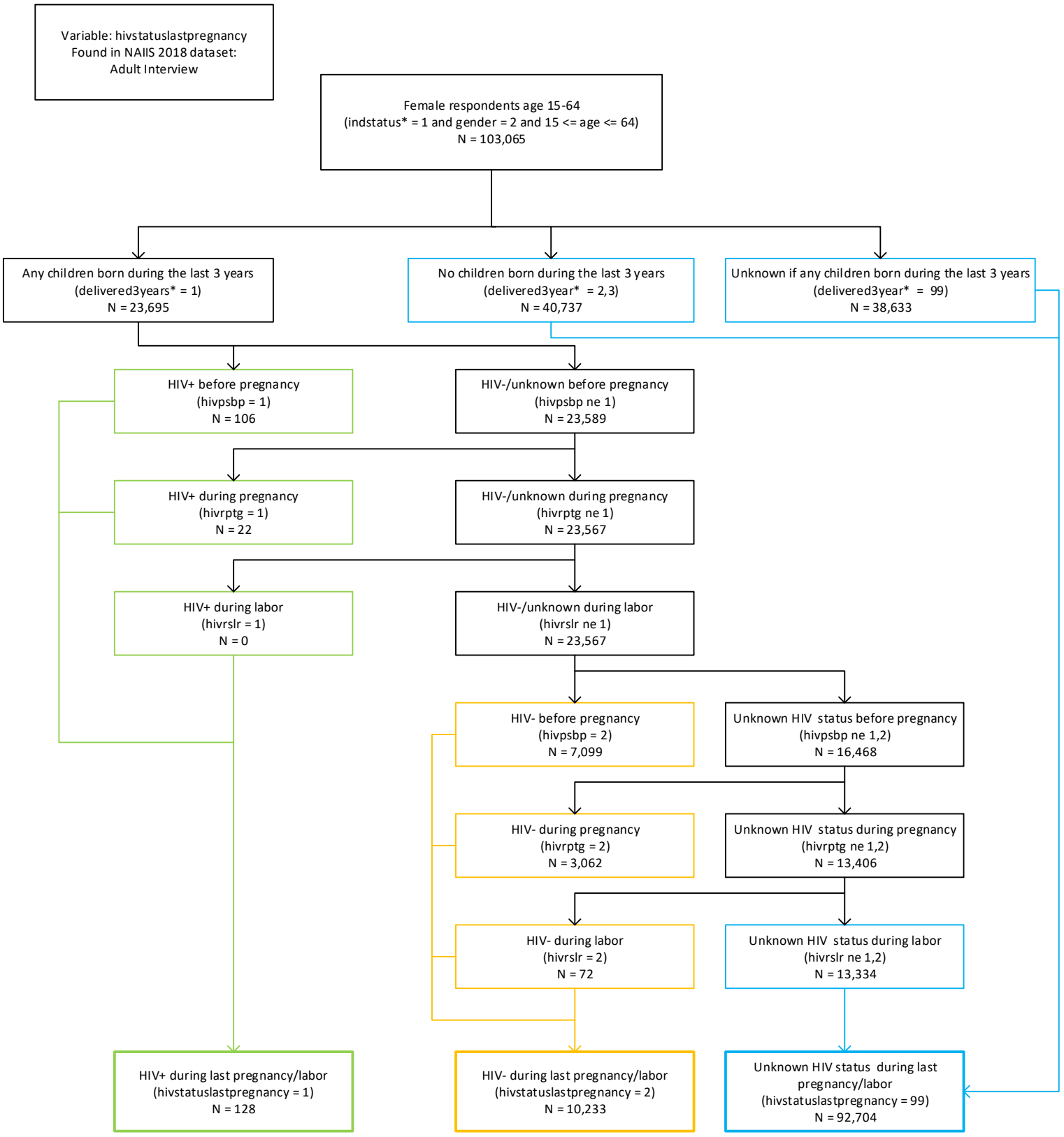

Variable: diagnosedtb
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64
(indstatus = 1 and
15 <= age <= 64 and visitedtbclinic* = 1)
N = 3,407
Has been diagnosed with tuberculosis
(tbdiagn = 1)
N = 918
Has not been diagnosed with
tuberculosis
(tbdiagn = 2)
N = 2,435
Missing information about having been
diagnosed with tuberculosis
(tbdiagn = -8 or -9 or .)
N = 54
Has been diagnosed with tuberculosis
(diagnosedtb = 1)
N = 918
Has not been diagnosed with
tuberculosis
(diagnosedtb = 2)
N = 2,435
Missing information about having been
diagnosed with tuberculosis
(diagnosedtb = 99)
N = 54

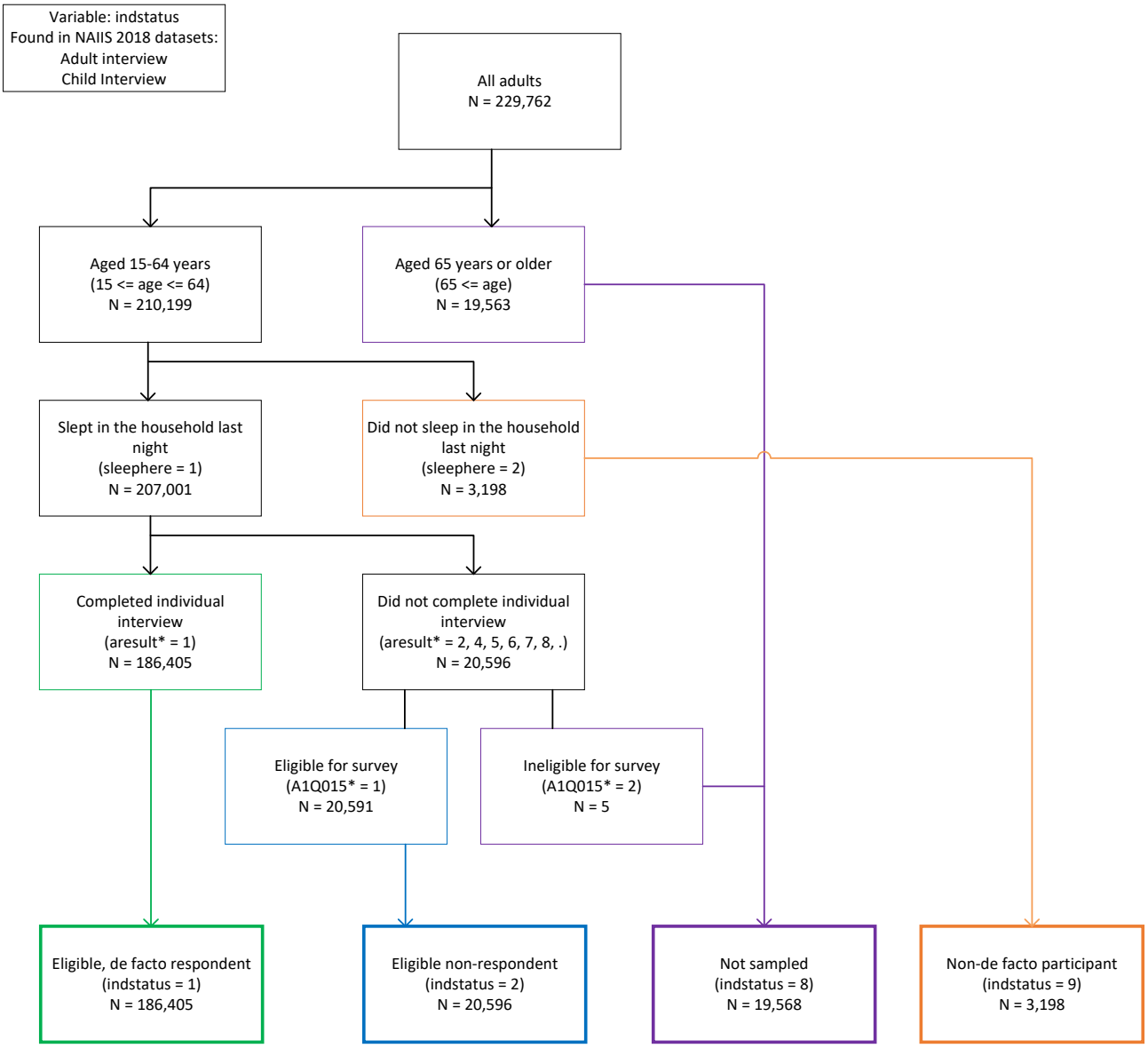

Variable: education
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64
(indstatus* = 1 and 15 <= age <= 64)
N = 186,405
Never attended school
(schlat = 2)
N = 37,754
Ever Attended School
(schlat = 1)
N = 148,603
Did not know, refused, or missing
(schlat = -8,-9, .)
N = 48
Attended Primary School
(schlhi = 1)
N = 34,666
Attended Secondary School
(schlhi = 2,3)
N = 73,993
Attended Tertiary School
(schlhi = 4,5,6)
N = 27,801
Attended Quaranic or Adult Literacy School
(schlhi = 7, 8)
N = 12,004
Did not know, refused or missing
(schlhi = -8,-9,.)
N = 139
No Education
(education=1)
N = 37,754
Attended Primary School
(education=2)
N = 34,666
Attended Secondary School
(education=3)
N = 73,993
Attended Higher Than Secondary School
(education=4)
N = 27,801
Attended Other
(education = 5)
N = 12,004
Missing Education
(education = 99)
N = 187


Variable: evertested
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64
(indstatus* = 1 and 15 <= age <= 64)
N = 186,405
Ever tested for HIV
(hivtstever = 1)
N = 61,263
Not tested or unknown
(hivtstever = 2,-8,-9,.) N
= 125,142
Tested before pregnancy
(hivtsbp = 1)
N = 203
Not tested before pregnancy or unknown
(hivtsbp = 2,-8,-9,.)
N = 124,939
Tested during pregnancy
(hivtrprg = 1)
N = 109
Not tested during pregnancy or unknown
(hivtrprg = 2,-8,-9,.)
N = 124,830
Tested during labor
(hivttlb = 1)
N = 11
Not tested during labor or unknown
(hivttlb = 2,-8,-9,.)
N = 124,819
Not tested
(hivtstever = 2)
N = 120,498
Unknown if tested
(hivtstever = -8,-9,.)
N = 4,321
Not tested during pregnancy
(hivtrprg=2)
N = 197
Unknown if tested during
pregnancy
(hivtprg = -8,-9,.)
N= 4,124
Not tested during labor
(hivttlb=2)
N = 104
Unknown if tested during labor
(hivttlb = -8,-9,.)
N = 4,020
Ever tested for HIV
(evertested = 1)
N = 61,586
Never tested for HIV
(evertested = 2)
N = 120,799
Missing
(evertested = 99)
N = 4,020

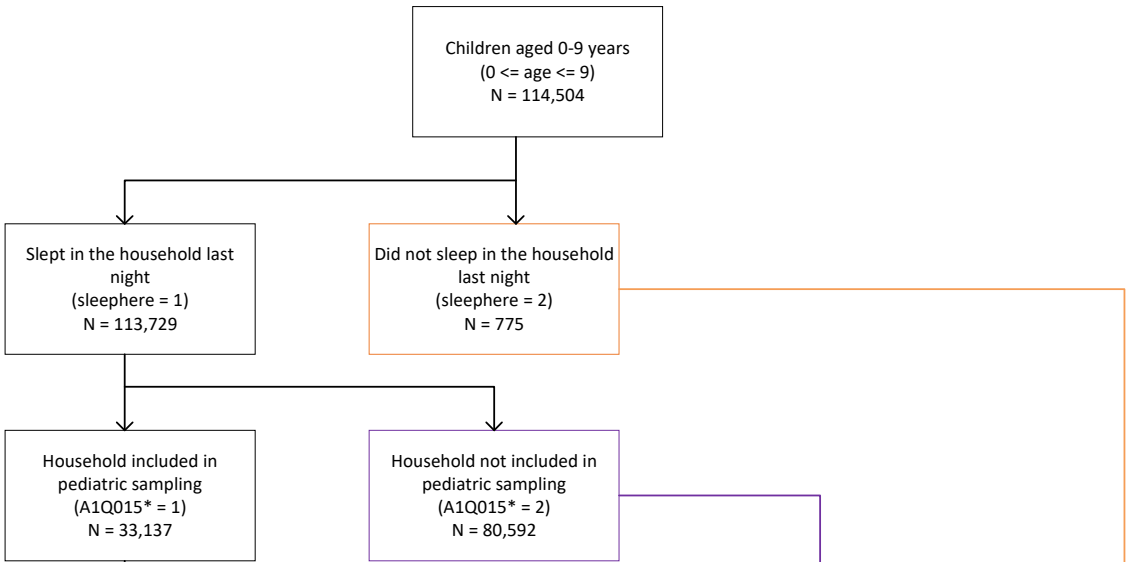

Variable: firstsxage_ng
Found in NAIIS 2018 dataset: Adult Interview
Age 15-64, de facto eligible
(15 ≤ age ≤ 64, indstatus = 1)
N = 186,405
Has had vaginal sex
(everhadsex_ng = 1)
N = 151,570
Has never had vaginal sex
(everhadsex_ng = 2)
N = 34,014
Don't know or refused if had vaginal sex
(everhadsex_ng in (-8, -9, .))
N = 821
0-14 years of age at first vaginal sex
(0 <= firstsxage <= 14)
N = 15,017
15-19 years of age at first vaginal sex
(15 <= firstsxage <= 19)
N = 68,428
20-24 years of age at first vaginal sex
(20 <= firstsxage <= 24)
N = 38,619
25+ years of age at first vaginal sex
(25 <= firstsxage <= 97)
N = 18,728
Don't know/ refused age at first vaginal sex
(firstsxage in (-8, -9))
N = 10,778
0-14 years of age at first vaginal sex
(firstsxage_ng = 1)
N = 15,017
15-19 years of age at first vaginal sex
(firstsxage_ng = 2)
N = 68,428
20-24 years of age at first vaginal sex
(firstsxage_ng = 3)
N = 38,619
25+ years of age at first vaginal sex
(firstsxage_ng = 4)
N = 18,728
Missing
(firstsxage_ng = 99)
N = 45,613

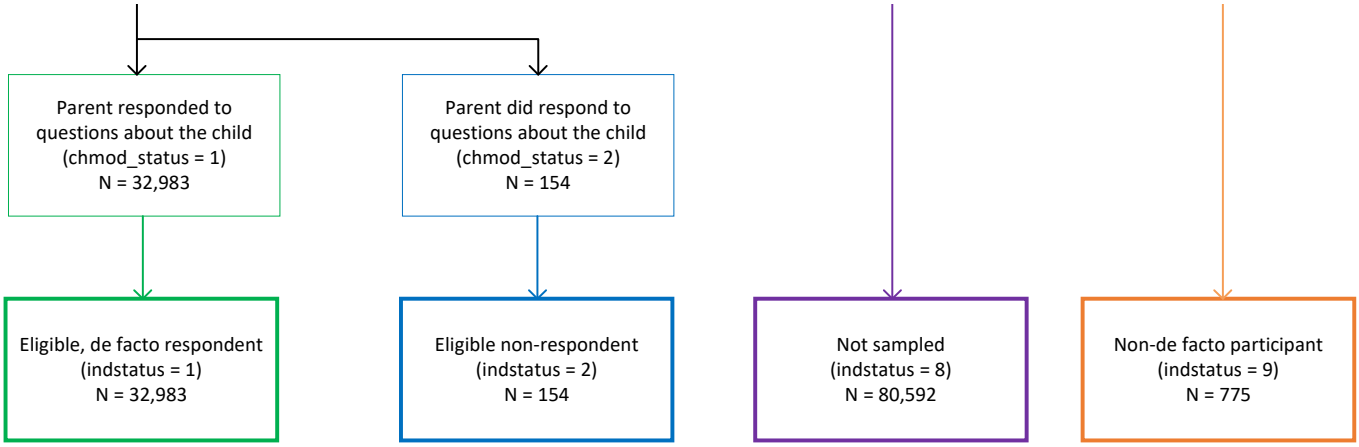

Variable: hhstatus
Found in NAIIS 2018 dataset:
NAIIS Households
All selected households
(N = 101,267)
Completed household interviews
(ahstatus = 1)
N = 83,909
Refusals, breaks, non-contacts
(ahstatus = 2, 4, 5)
N = 5,436
Dwelings inaccessible or not found
(ahstatus = 0, 8, 9)
N = 5,199
Dwelings vacant or destroyed
(ahstatus = 3,6,7)
N = 6,723
Eligible responding households
(hhstatus = 1)
N = 83,909
Eligible non-responding households
(hhstatus = 2)
N = 5,436
Households of unknown eligibility
(hhstatus = 3)
N =5,199
Ineligible households
(hhstatus = 4)
N = 6,723


Variable: hivstatuslastpregnancy
Found in NAIIS 2018 dataset:
Adult Interview
Female respondents age 15-64
(indstatus* = 1 and gender = 2 and 15 <= age <= 64)
N = 103,065
Any children born during the last 3 years
(delivered3years* = 1)
N = 23,695
No children born during the last 3 years
(delivered3year* = 2,3)
N = 40,737
Unknown if any children born during the last 3 years
(delivered3year* = 99)
N = 38,633
HIV+ before pregnancy
(hivpsbp = 1)
N = 106
HIV-/unknown before pregnancy
(hivpsbp ne 1)
N = 23,589
HIV+ during pregnancy
(hivrptg = 1)
N = 22
HIV-/unknown during pregnancy
(hivrptg ne 1)
N = 23,567
HIV+ during labor
(hivrslr = 1)
N = 0
HIV-/unknown during labor
(hivrslr ne 1)
N = 23,567
HIV- before pregnancy
(hivpsbp = 2)
N = 7,099
Unknown HIV status before pregnancy
(hivpsbp ne 1,2)
N = 16,468
HIV- during pregnancy
(hivrptg = 2)
N = 3,062
Unknown HIV status during pregnancy
(hivrptg ne 1,2)
N = 13,406
HIV- during labor
(hivrslr = 2)
N = 72
Unknown HIV status during labor
(hivrslr ne 1,2)
N = 13,334
HIV+ during last pregnancy/labor
(hivstatuslastpregnancy = 1)
N = 128
HIV- during last pregnancy/labor
(hivstatuslastpregnancy = 2)
N = 10,233
Unknown HIV status during last pregnancy/labor
(hivstatuslastpregnancy = 99)
N = 92,704

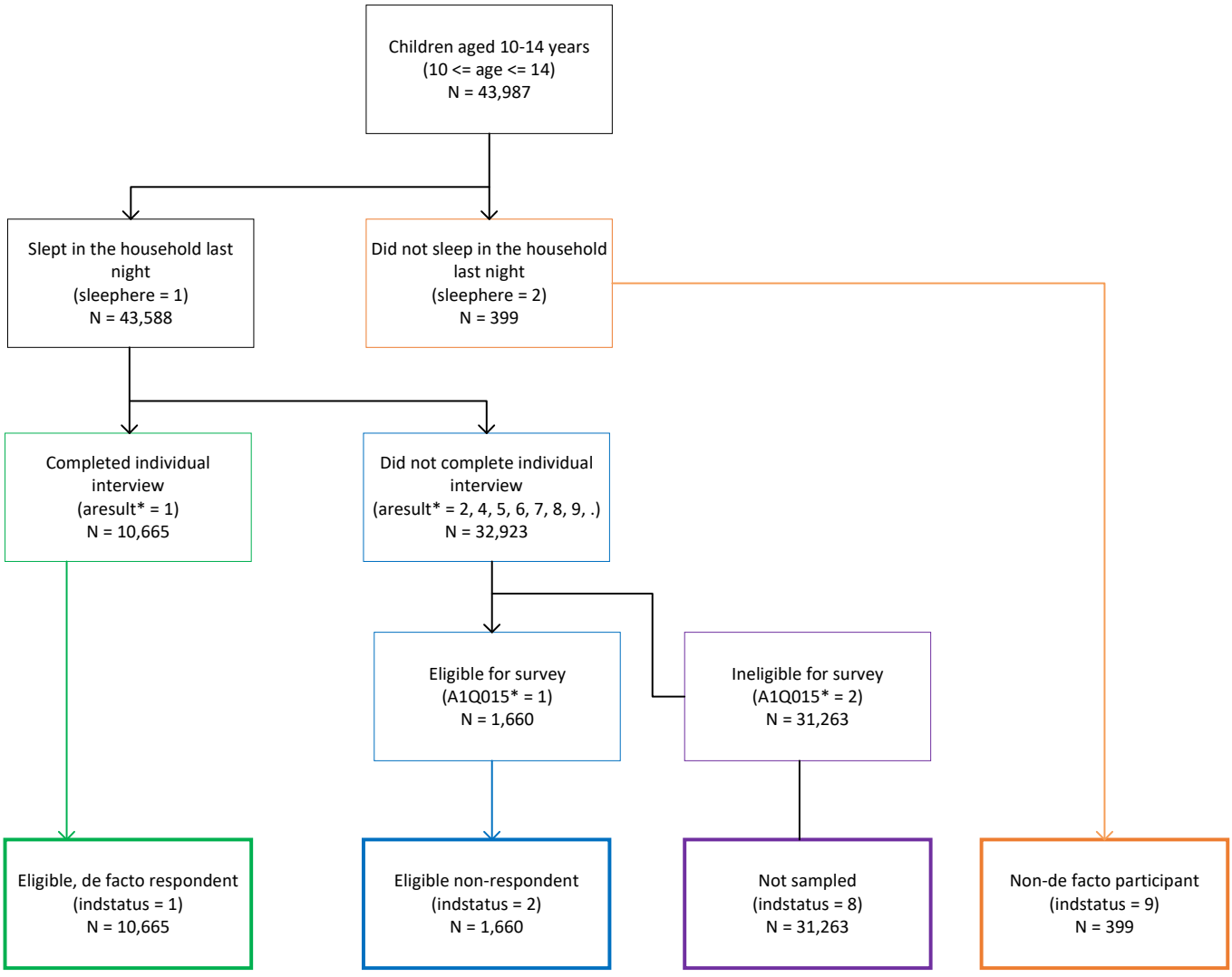


*aresult, A1Q015 variables not included in public use datasets

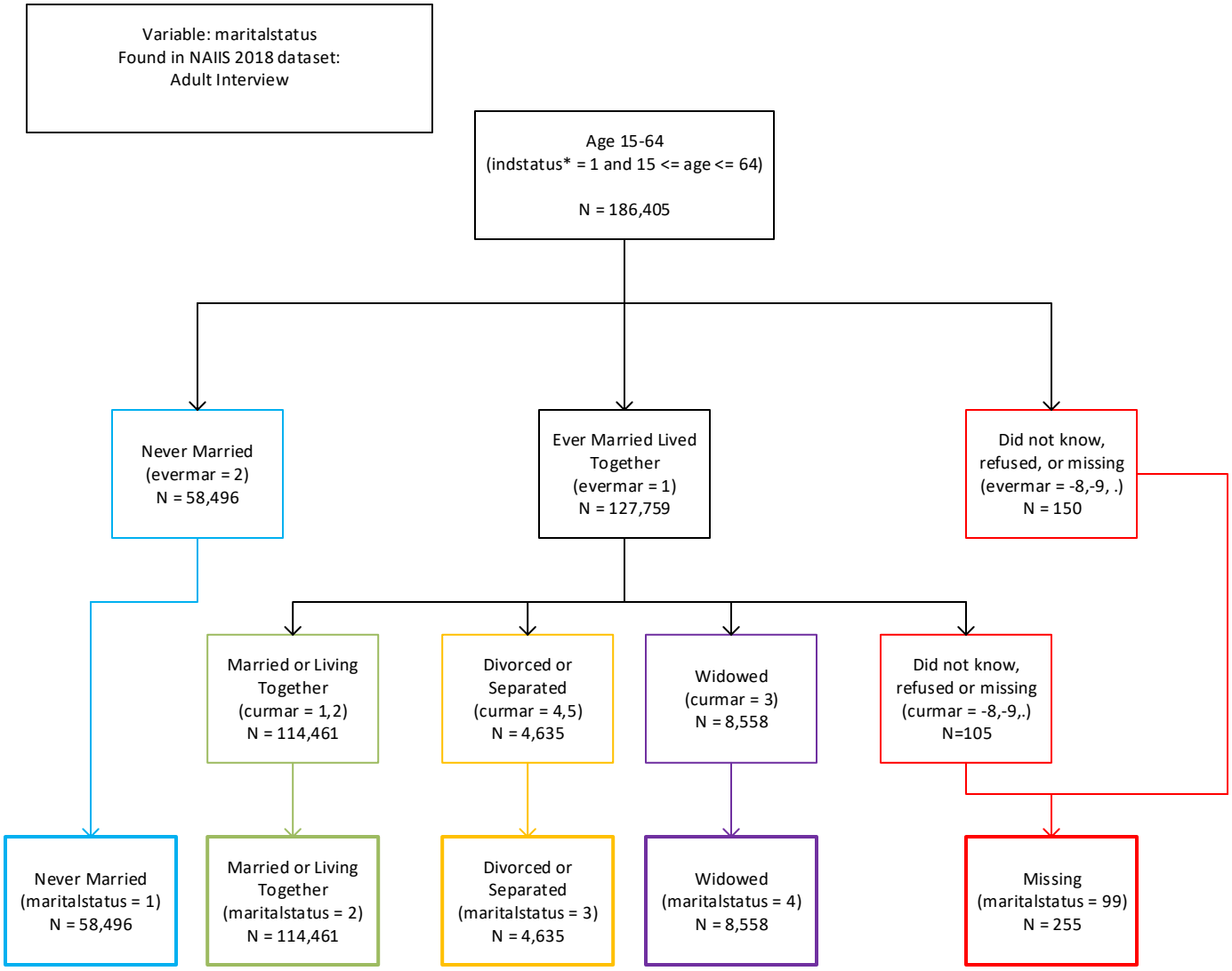


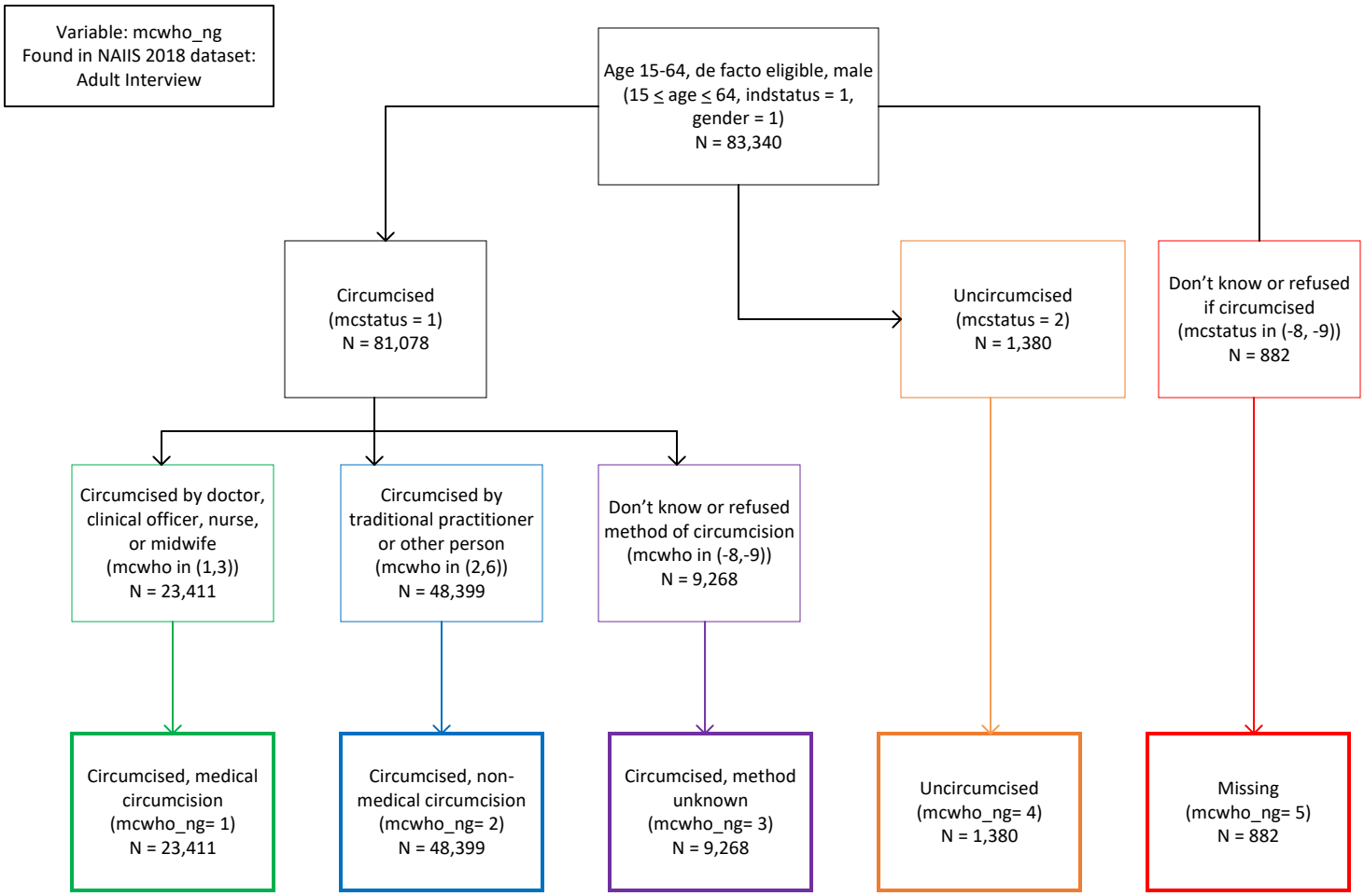


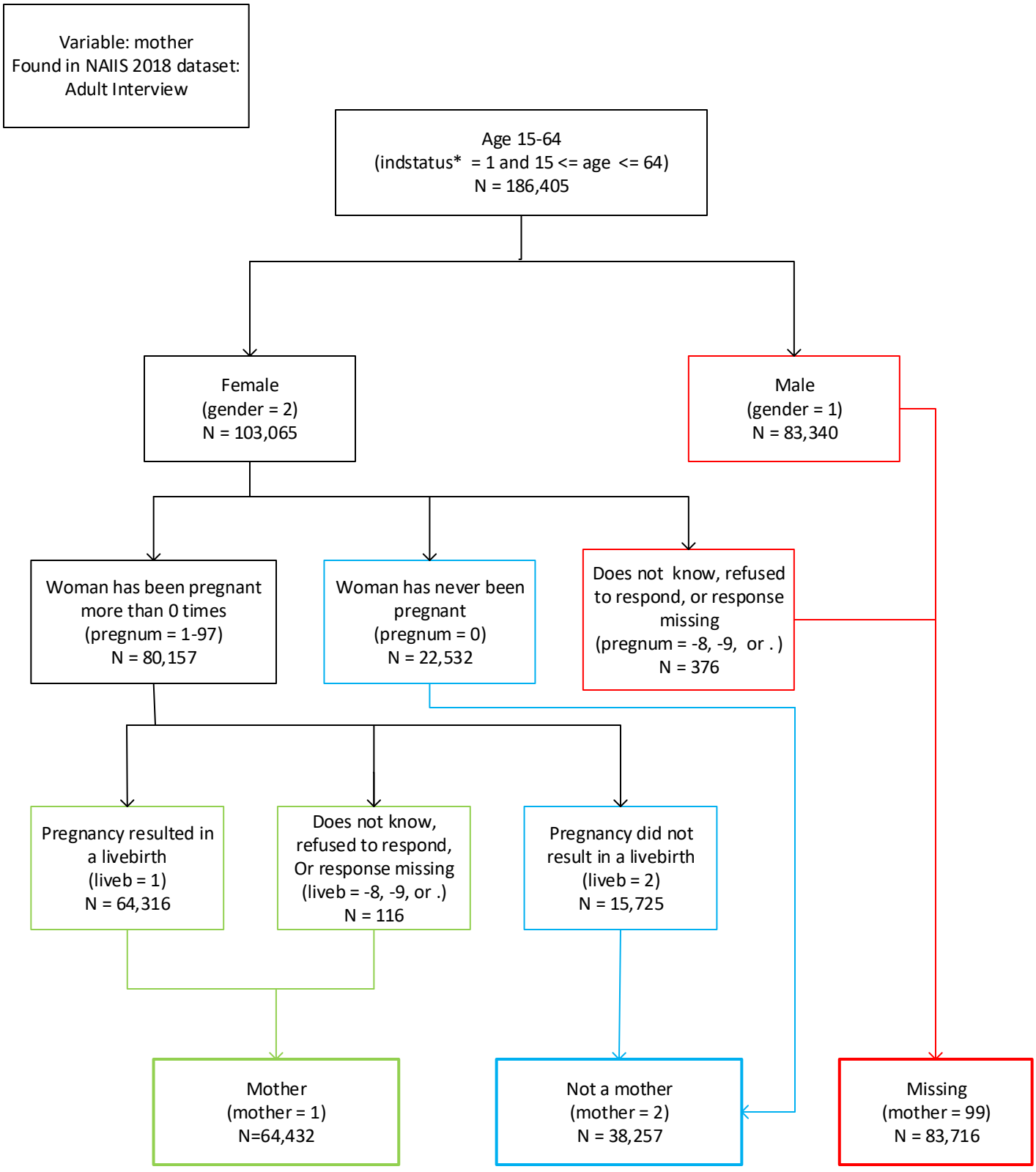
*A1Q015 variable not included in public use datasets

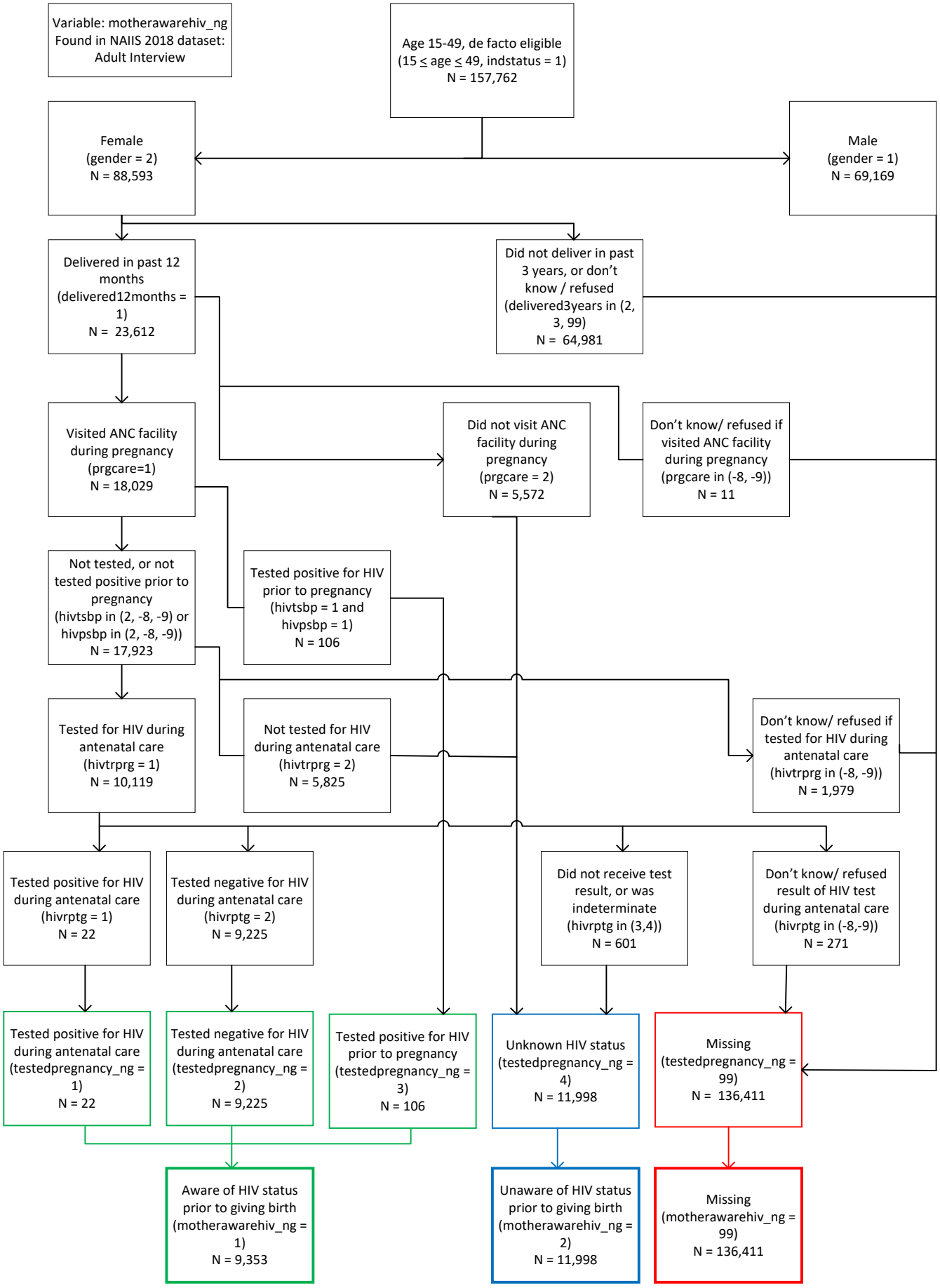


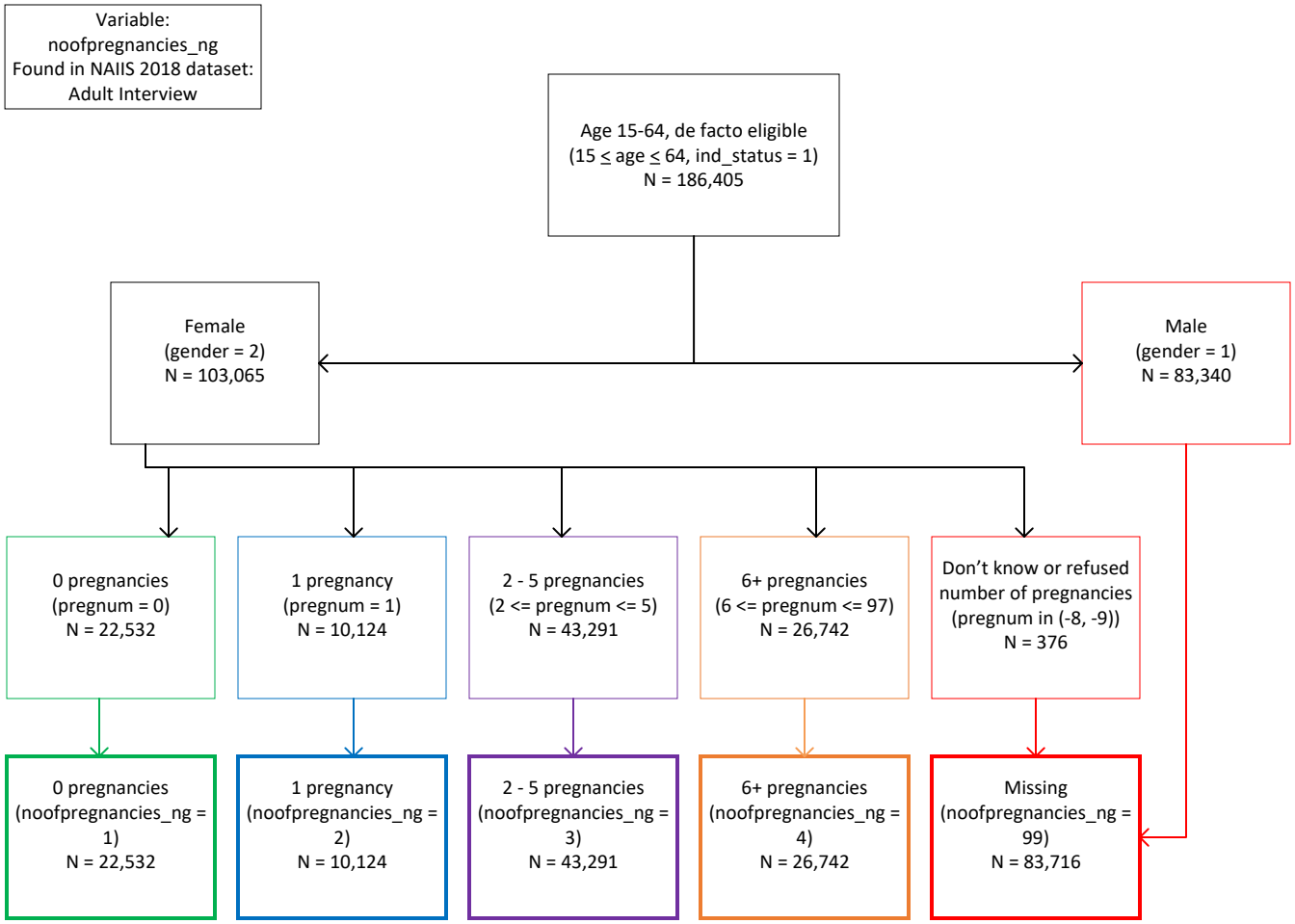
*aresult, A1Q015 variables not included in public use datasets

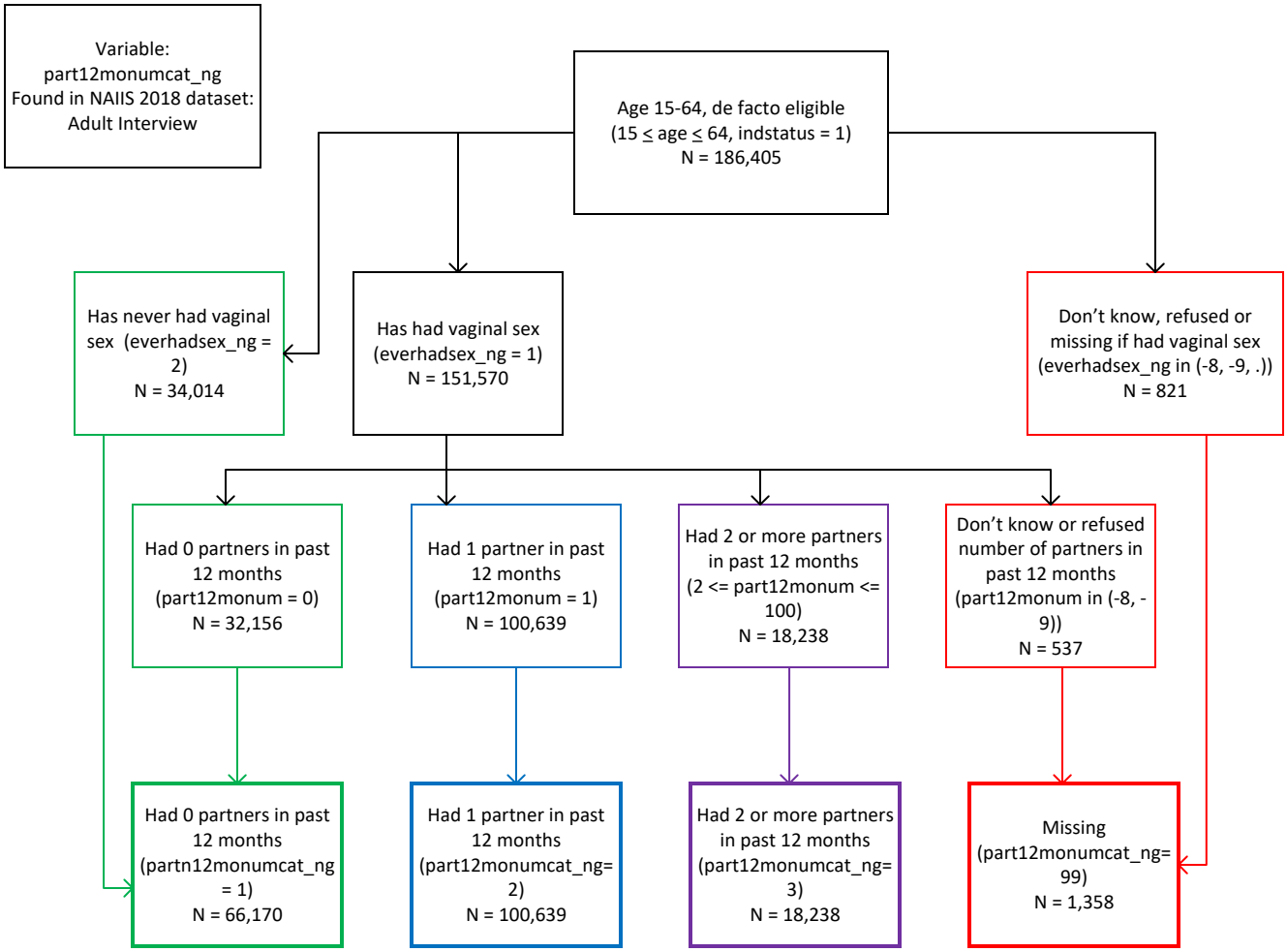

Variable: maritalstatus
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64
(indstatus* = 1 and 15 <= age <= 64)
N = 186,405
Never Married
(evermar = 2)
N = 58,496
Ever Married Lived Together
(evermar = 1)
N = 127,759
Did not know, refused, or missing
(evermar = -8,-9, .)
N = 150
Married or Living Together
(curmar = 1,2)
N = 114,461
Divorced or Separated
(curmar = 4,5)
N = 4,635
Widowed
(curmar = 3)
N = 8,558
Did not know, refused or missing
(curmar = -8,-9,.)
N=105
Never Married
(maritalstatus = 1)
N = 58,496
Married or Living Together
(maritalstatus = 2)
N = 114,461
Divorced or Separated
(maritalstatus = 3)
N = 4,635
Widowed
(maritalstatus = 4)
N = 8,558
Missing
(maritalstatus = 99)
N = 255

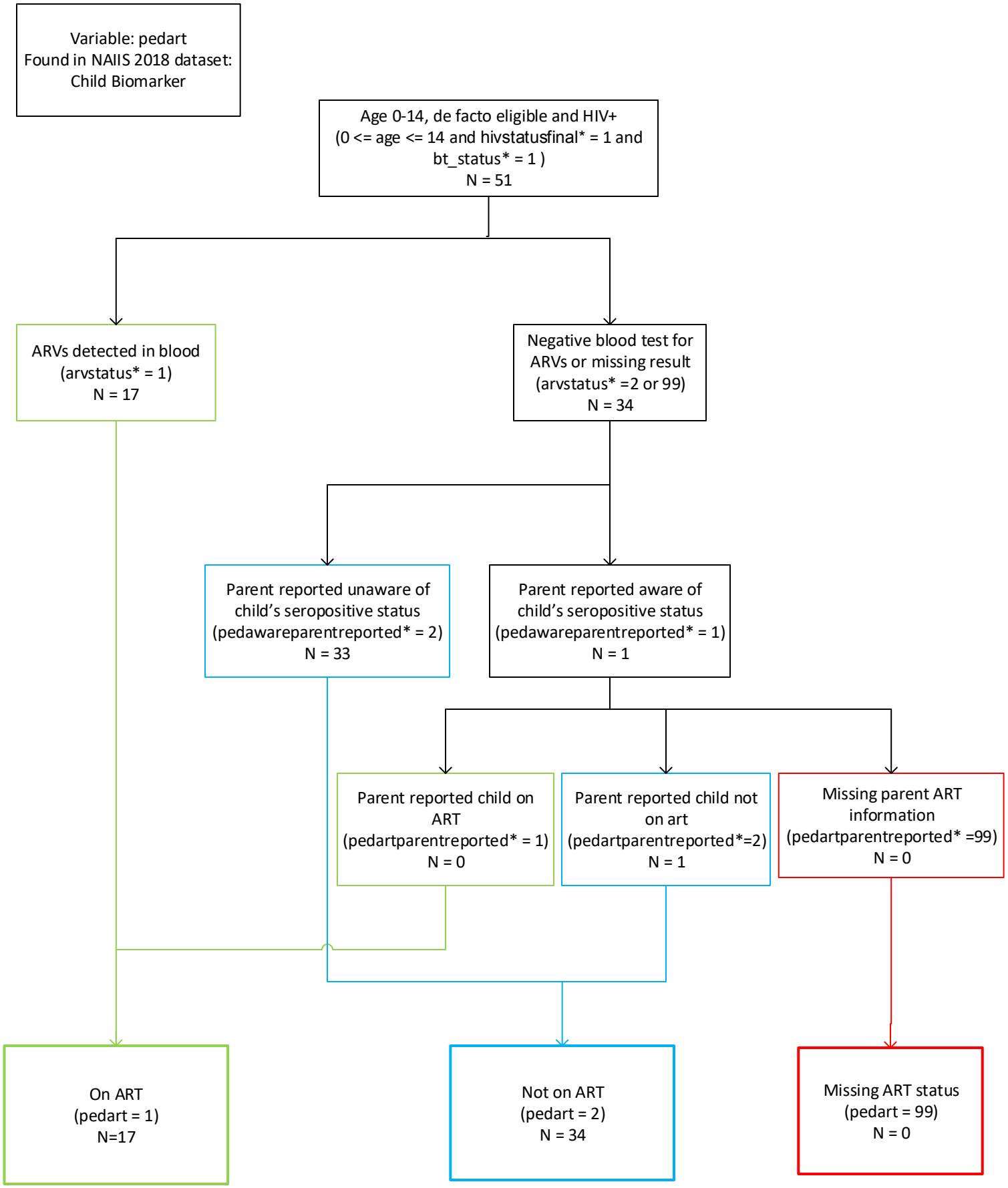

Variable: mcwho_ng
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64, de facto eligible, male
(15 ≤ age ≤ 64, indstatus = 1,
gender = 1)
N = 83,340
Circumcised
(mcstatus = 1)
N = 81,078
Uncircumcised
(mcstatus = 2)
N = 1,380
Don't know or refused
if circumcised
(mcstatus in (-8, -9))
N = 882
Circumcised by doctor,
clinical officer, nurse,
or midwife
(mcwho in (1,3))
N = 23,411
Circumcised by
traditional practitioner
or other person
(mcwho in (2,6))
N = 48,399
Don't know or refused
method of circumcision
(mcwho in (-8,-9))
N = 9,268
Circumcised, medical
circumcision
(mcwho_ng= 1)
N = 23,411
Circumcised, non-
medical circumcision
(mcwho_ng= 2)
N = 48,399
Circumcised, method
unknown
(mcwho_ng= 3)
N = 9,268
Uncircumcised
(mcwho_ng= 4)
N = 1,380
Missing
(mcwho_ng= 5)
N = 882

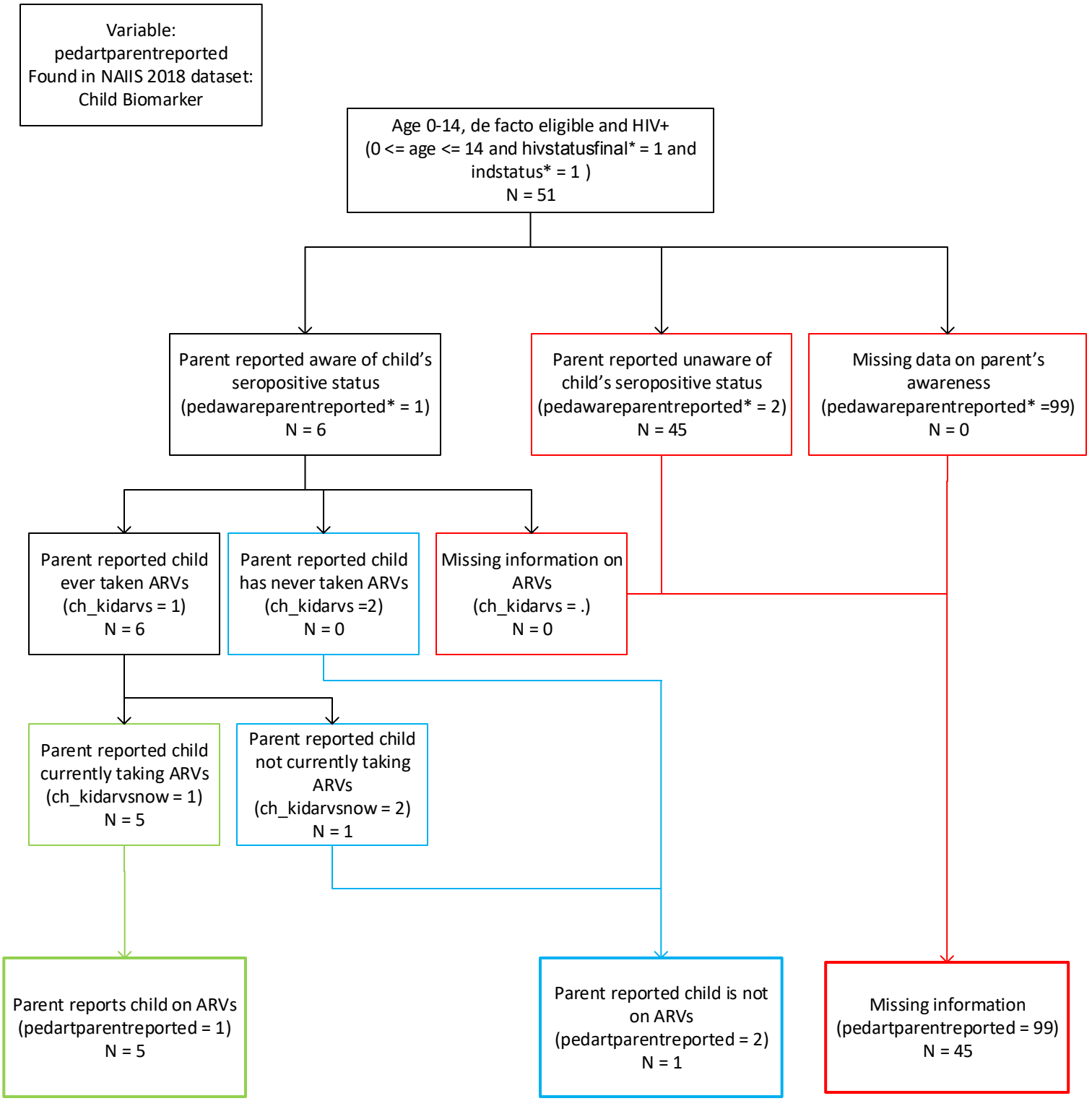

Variable: mother
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64
(indstatus* = 1 and 15 <= age <= 64)
N = 186,405
Female
(gender = 2)
N = 103,065
Male
(gender = 1)
N = 83,340
Woman has been pregnant more than 0 times
(pregnum = 1-97)
N = 80,157
Woman has never been pregnant
(pregnum = 0)
N = 22,532
Does not know, refused to respond, or response missing
(pregnum = -8, -9, or .)
N = 376
Pregnancy resulted in a livebirth
(liveb = 1)
N = 64,316
Does not know, refused to respond, Or response missing
(liveb = -8, -9, or .)
N = 116
Pregnancy did not result in a livebirth
(liveb = 2)
N = 15,725
Mother
(mother = 1)
N=64,432
Not a mother
(mother = 2)
N = 38,257
Missing
(mother = 99)
N = 83,716

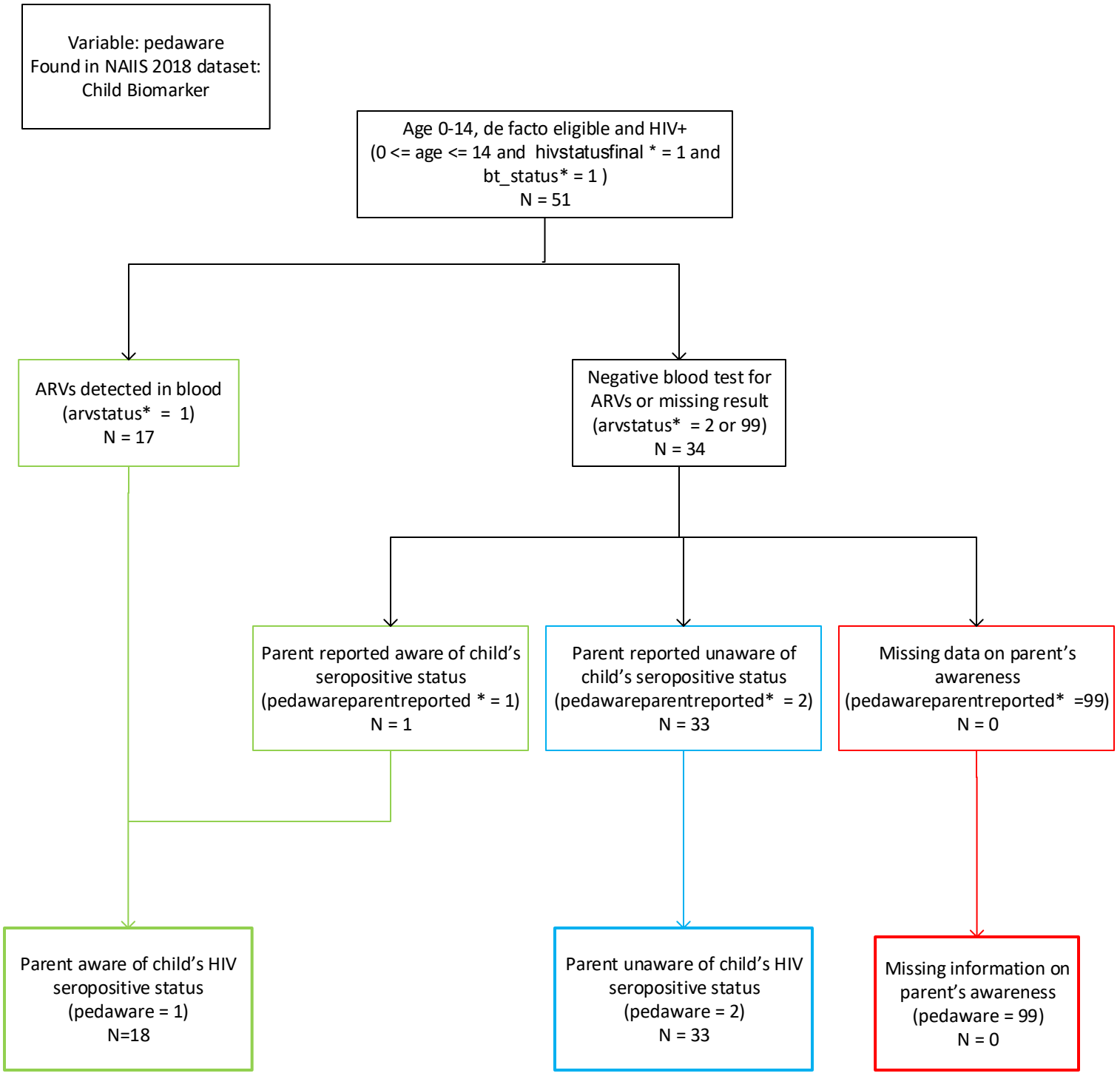

Variable: motherawarehiv_ng
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-49, de facto eligible
(15 ≤ age ≤ 49, indstatus = 1)
N = 157,762
Female
(gender = 2)
N = 88,593
Male
(gender = 1)
N = 69,169
Delivered in past 12 months
(delivered12months = 1)
N = 23,612
Did not deliver in past 3 years, or don't know / refused
(delivered3years in (2, 3, 99)
N = 64,981
Visited ANC facility during pregnancy
(prgcare=1)
N = 18,029
Did not visit ANC facility during pregnancy
(prgcare = 2)
N = 5,572
Don't know/ refused if visited ANC facility during pregnancy
(prgcare in (-8, -9))
N = 11
Not tested, or not tested positive prior to pregnancy
(hivtsbp in (2, -8, -9) or hivpsbp in (2, -8, -9))
N = 17,923
Tested positive for HIV prior to pregnancy
(hivtsbp = 1 and hivpsbp = 1)
N = 106
Tested for HIV during antenatal care
(hivtrprg = 1)
N = 10,119
Not tested for HIV during antenatal care
(hivtrprg = 2)
N = 5,825
Don't know/ refused if tested for HIV during antenatal care
(hivtrprg in (-8, -9))
N = 1,979
Tested positive for HIV during antenatal care
(hivrptg = 1)
N = 22
Tested negative for HIV during antenatal care
(hivrptg = 2)
N = 9,225
Did not receive test result, or was indeterminate
(hivrptg in (3,4))
N = 601
Don't know/ refused result of HIV test during antenatal care
(hivrptg in (-8,-9))
N = 271
Tested positive for HIV during antenatal care
(testedpregnancy_ng = 1)
N = 22
Tested negative for HIV during antenatal care
(testedpregnancy_ng = 2)
N = 9,225
Tested positive for HIV prior to pregnancy
(testedpregnancy_ng = 3)
N = 106
Unknown HIV status
(testedpregnancy_ng = 4)
N = 11,998
Missing
(testedpregnancy_ng = 99)
N = 136,411
Aware of HIV status prior to giving birth
(motherawarehiv_ng = 1)
N = 9,353
Unaware of HIV status prior to giving birth
(motherawarehiv_ng = 2)
N = 11,998
Missing
(motherawarehiv_ng = 99)
N = 136,411

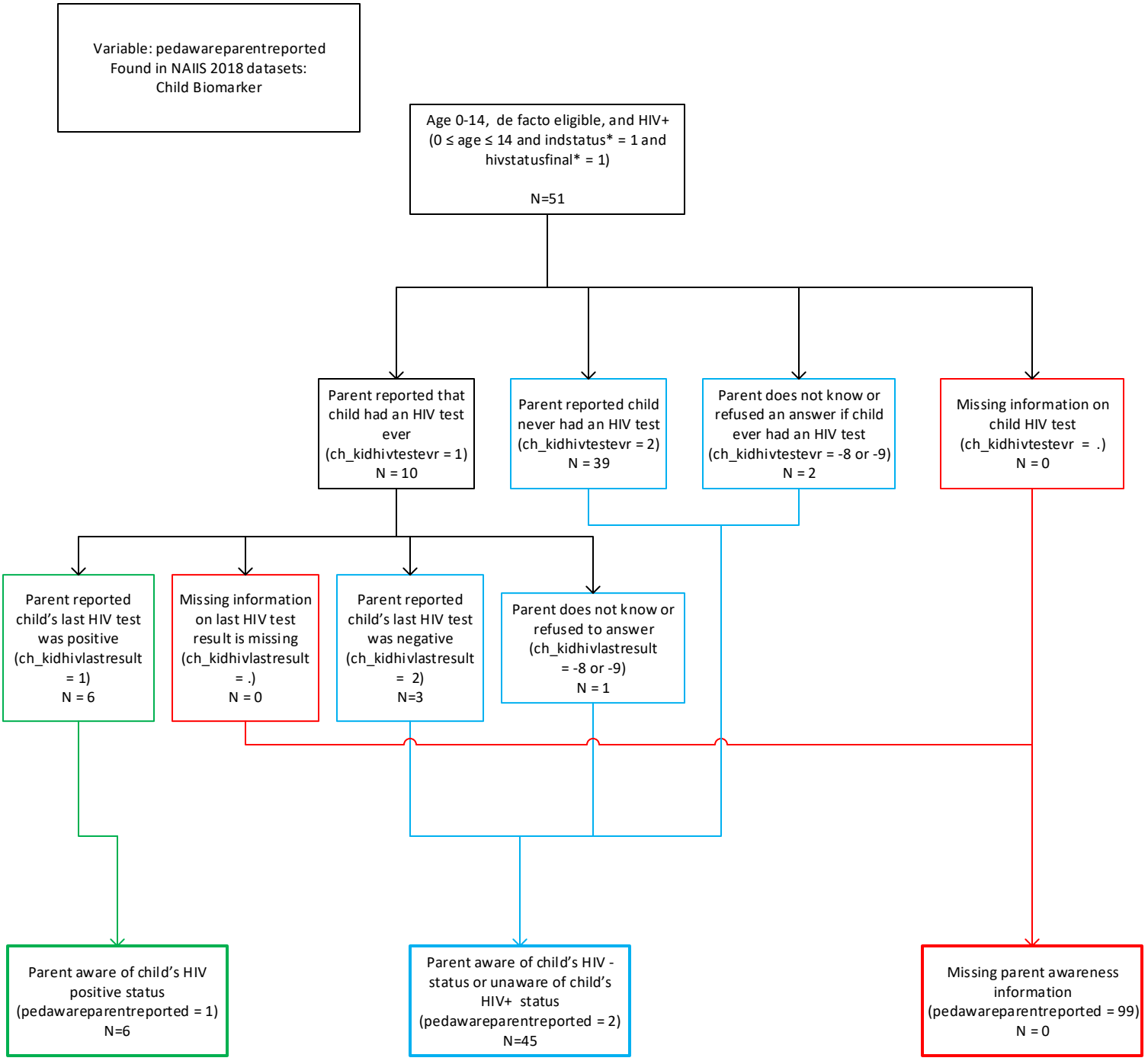

Variable:
noofpregnancies_ng
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64, de facto eligible
(15 ≤ age ≤ 64, ind_status = 1)
N = 186,405
Female
(gender = 2)
N = 103,065
Male
(gender = 1)
N = 83,340
0 pregnancies
(pregnum = 0)
N = 22,532
1 pregnancy
(pregnum = 1)
N = 10,124
2 - 5 pregnancies
(2 <= pregnum <= 5)
N = 43,291
6+ pregnancies
(6 <= pregnum <= 97)
N = 26,742
Don't know or refused
number of pregnancies
(pregnum in (-8, -9))
N = 376
0 pregnancies
(noofpregnancies_ng = 1)
N = 22,532
1 pregnancy
(noofpregnancies_ng = 2)
N = 10,124
2 - 5 pregnancies
(noofpregnancies_ng = 3)
N = 43,291
6+ pregnancies
(noofpregnancies_ng = 4)
N = 26,742
Missing
(noofpregnancies_ng = 99)
N = 83,716

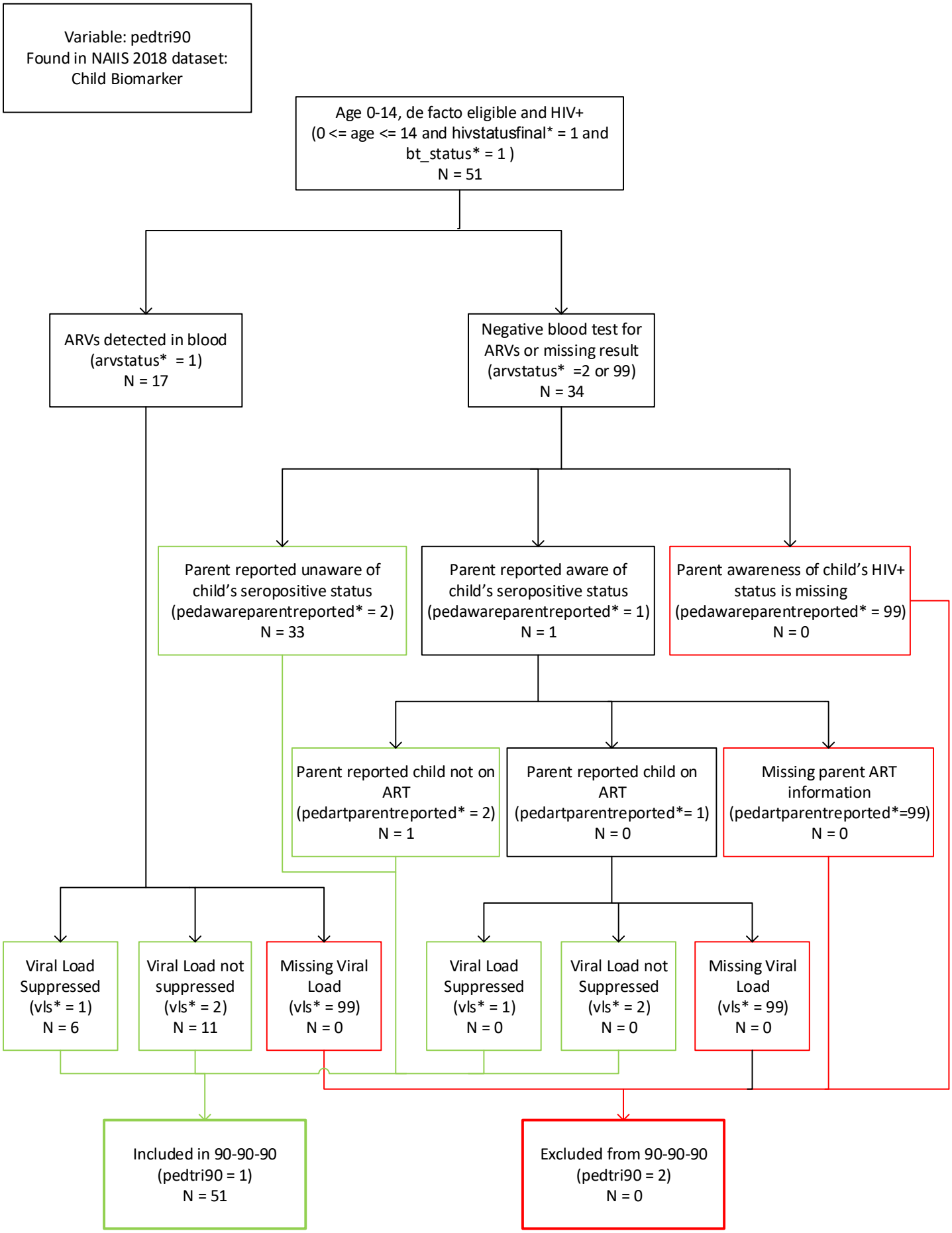

Variable: part12monumcat_ng Found in NAIIS 2018 dataset: Adult Interview
Age 15-64, de facto eligible (15 ≤ age ≤ 64, indstatus = 1) N = 186,405
Has never had vaginal sex (everhadsex_ng = 2) N = 34,014
Has had vaginal sex (everhadsex_ng = 1) N = 151,570
Don't know, refused or missing if had vaginal sex (everhadsex_ng in (-8, -9, .)) N = 821
Had 0 partners in past 12 months (part12monum = 0) N = 32,156
Had 1 partner in past 12 months (part12monum = 1) N = 100,639
Had 2 or more partners in past 12 months (2 <= part12monum <= 100) N = 18,238
Don't know or refused number of partners in past 12 months (part12monum in (-8, -9)) N = 537
Had 0 partners in past 12 months (partn12monumcat_ng = 1) N = 66,170
Had 1 partner in past 12 months (part12monumcat_ng= 2) N = 100,639
Had 2 or more partners in past 12 months (part12monumcat_ng= 3) N = 18,238
Missing (part12monumcat_ng= 99) N = 1,358

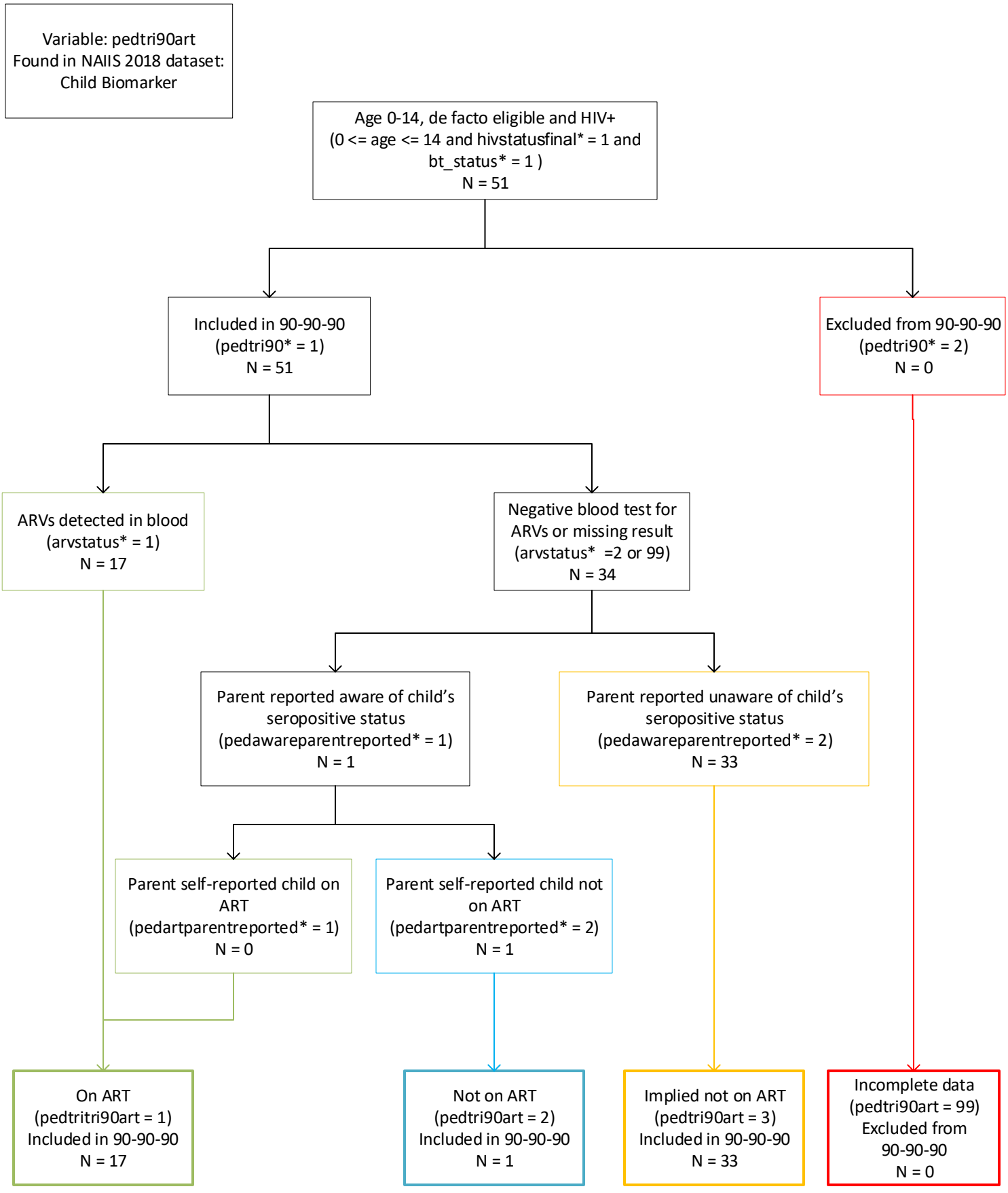

Variable: pedart
Found in NAIIS 2018 dataset:
Child Biomarker
Age 0-14, de facto eligible and HIV+
(0 <= age <= 14 and hivstatusfinal* = 1 and
bt_status* = 1)
N = 51
ARVs detected in blood
(arvstatus* = 1)
N = 17
Negative blood test for
ARVs or missing result
(arvstatus* =2 or 99)
N = 34
Parent reported unaware of
child's seropositive status
(pedawareparentreported* = 2)
N = 33
Parent reported aware of
child's seropositive status
(pedawareparentreported* = 1)
N = 1
Parent reported child on
ART
(pedartparentreported* = 1)
N = 0
Parent reported child not
on art
(pedartparentreported*=2)
N = 1
Missing parent ART
information
(pedartparentreported* =99)
N = 0
On ART
(pedart = 1)
N=17
Not on ART
(pedart = 2)
N = 34
Missing ART status
(pedart = 99)
N = 0

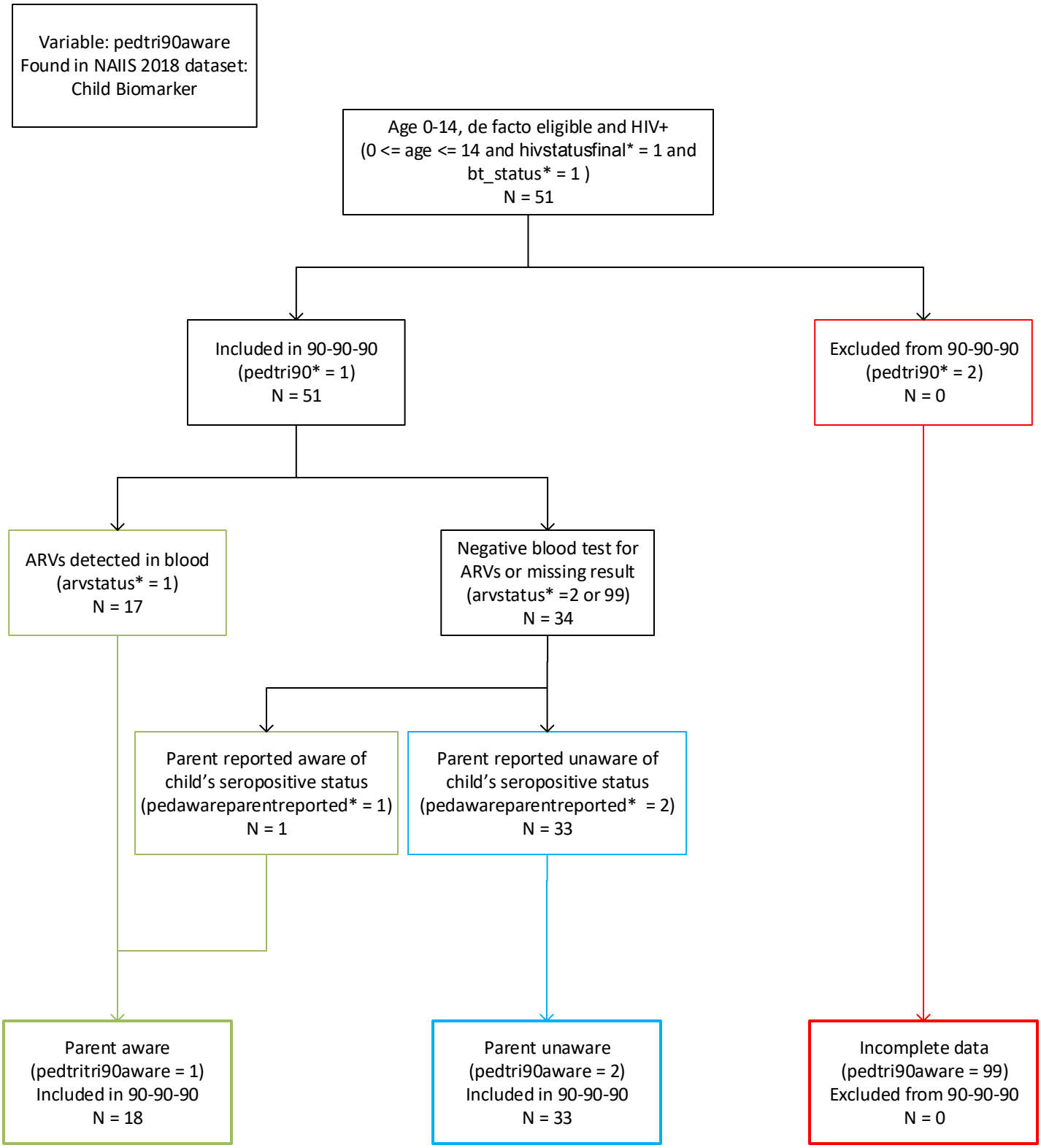

Variable: pedartparentreported Found in NAIIS 2018 dataset: Child Biomarker
Age 0-14, de facto eligible and HIV+ (0 <= age <= 14 and hivstatusfinal* = 1 and indstatus* = 1) N = 51
Parent reported aware of child's seropositive status (pedawareparentreported* = 1) N = 6
Parent reported unaware of child's seropositive status (pedawareparentreported* = 2) N = 45
Missing data on parent's awareness (pedawareparentreported* =99) N = 0
Parent reported child ever taken ARVs (ch_kidarvs = 1) N = 6
Parent reported child has never taken ARVs (ch_kidarvs =2) N = 0
Missing information on ARVs (ch_kidarvs = .) N = 0
Parent reported child currently taking ARVs (ch_kidarvsnow = 1) N = 5
Parent reported child not currently taking ARVs (ch_kidarvsnow = 2) N = 1
Parent reports child on ARVs (pedartparentreported = 1) N = 5
Parent reported child is not on ARVs (pedartparentreported = 2) N = 1
Missing information (pedartparentreported = 99) N = 45

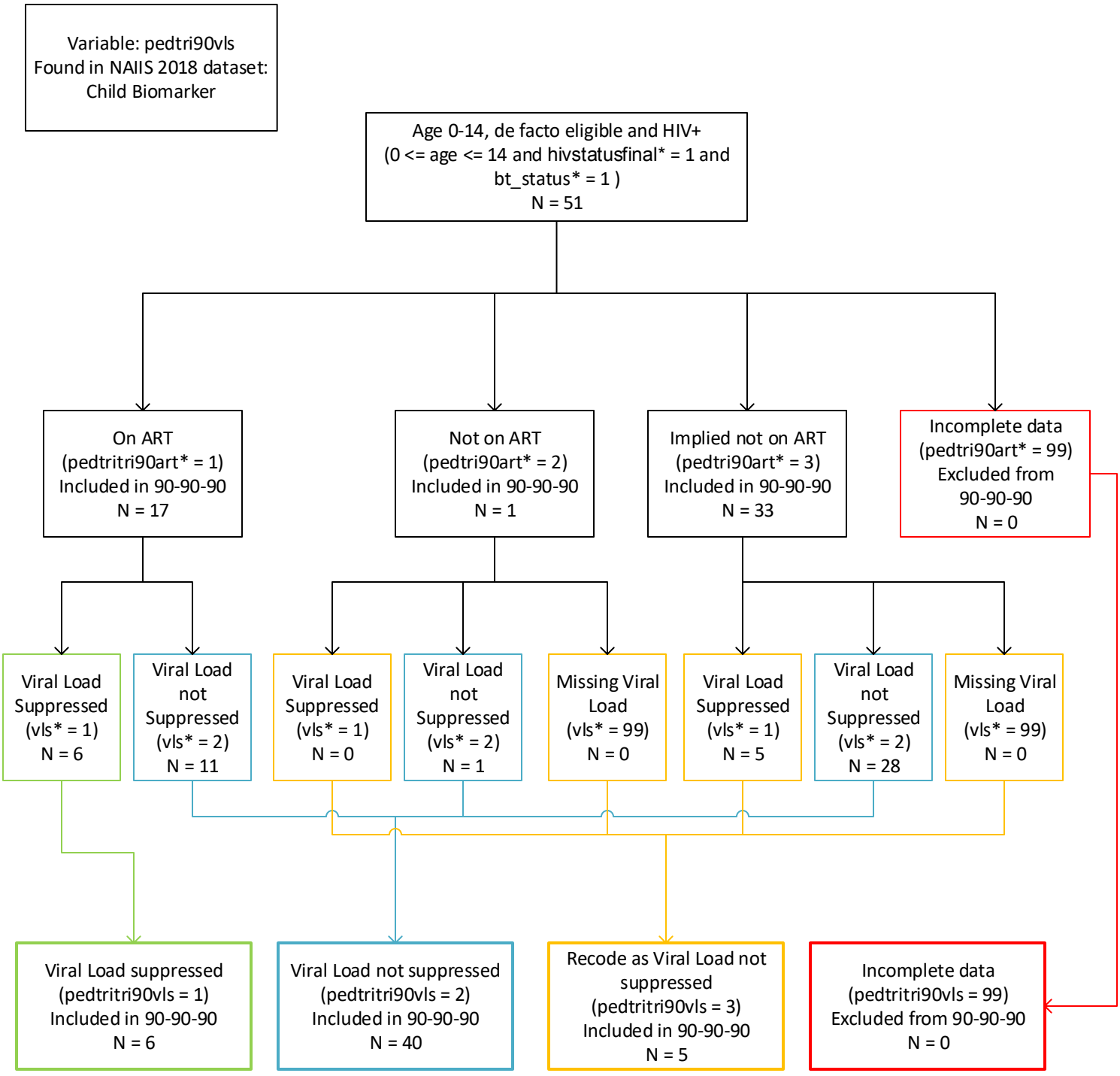

Variable: pedaware
Found in NAIIS 2018 dataset:
Child Biomarker
Age 0-14, de facto eligible and HIV+
(0 <= age <= 14 and hivstatusfinal * = 1 and
bt_status* = 1)
N = 51
ARVs detected in blood
(arvstatus* = 1)
N = 17
Negative blood test for
ARVs or missing result
(arvstatus* = 2 or 99)
N = 34
Parent reported aware of child's
seropositive status
(pedawareparentreported * = 1)
N = 1
Parent reported unaware of
child's seropositive status
(pedawareparentreported* = 2)
N = 33
Missing data on parent's
awareness
(pedawareparentreported* =99)
N = 0
Parent aware of child's HIV
seropositive status
(pedaware = 1)
N=18
Parent unaware of child's HIV
seropositive status
(pedaware = 2)
N = 33
Missing information on
parent's awareness
(pedaware = 99)
N = 0

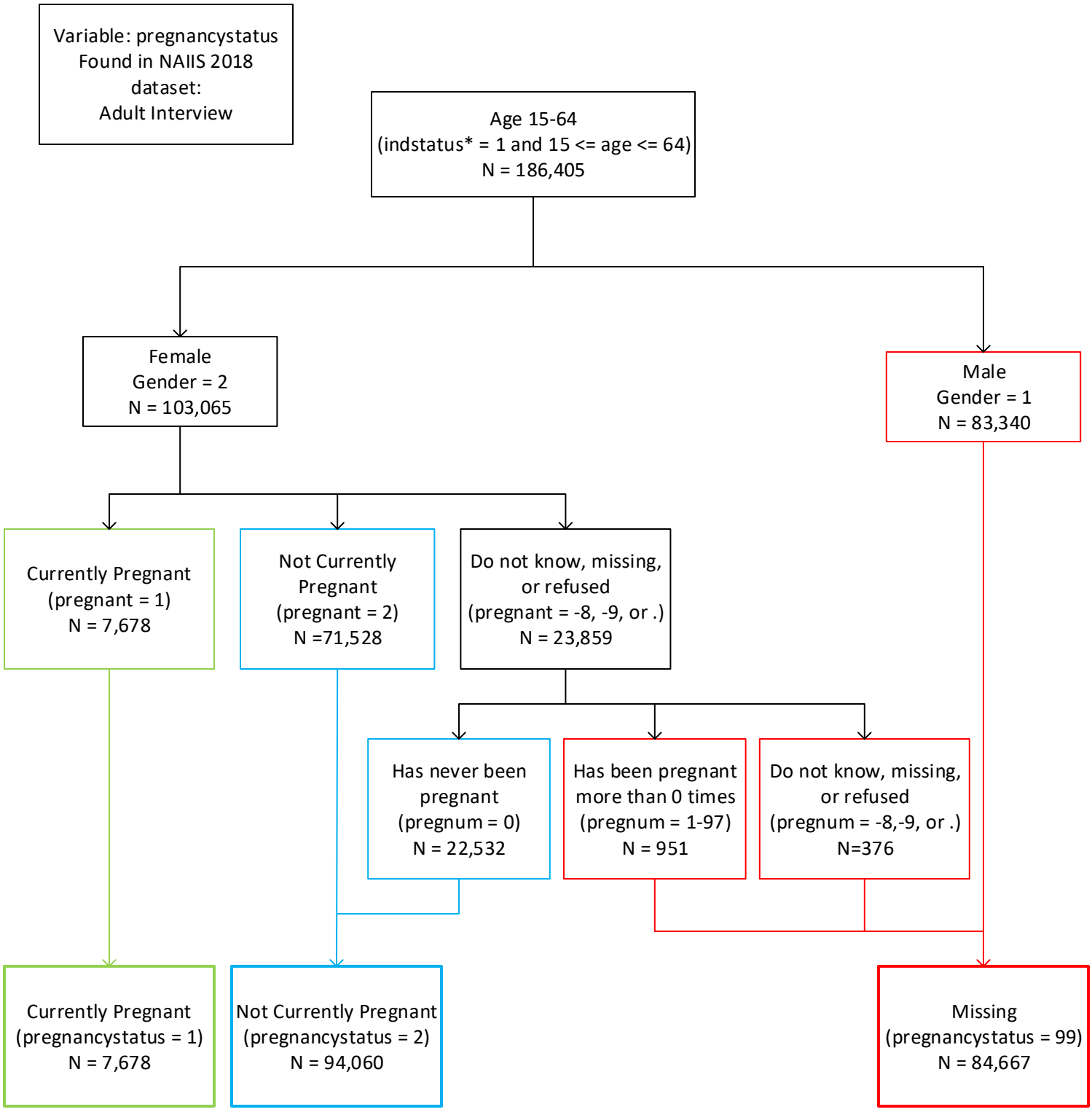

Variable: pedawareparentreported
Found in NAIIS 2018 datasets:
Child Biomarker
Age 0-14, de facto eligible, and HIV+
(0 ≤ age ≤ 14 and indstatus* = 1 and hivstatusfinal* = 1)
N=51
Parent reported that child had an HIV test ever
(ch_kidhivtestevr = 1)
N = 10
Parent reported child never had an HIV test
(ch_kidhivtestevr = 2)
N = 39
Parent does not know or refused an answer if child ever had an HIV test
(ch_kidhivtestevr = -8 or -9)
N = 2
Missing information on child HIV test
(ch_kidhivtestevr = .)
N = 0
Parent reported child's last HIV test was positive
(ch_kidhivlastresult = 1)
N = 6
Missing information on last HIV test result is missing
(ch_kidhivlastresult = .)
N = 0
Parent reported child's last HIV test was negative
(ch_kidhivlastresult = 2)
N=3
Parent does not know or refused to answer
(ch_kidhivlastresult = -8 or -9)
N = 1
Parent aware of child's HIV positive status
(pedawareparentreported = 1)
N=6
Parent aware of child's HIV -status or unaware of child's HIV+ status
(pedawareparentreported = 2)
N=45
Missing parent awareness information
(pedawareparentreported = 99)
N = 0

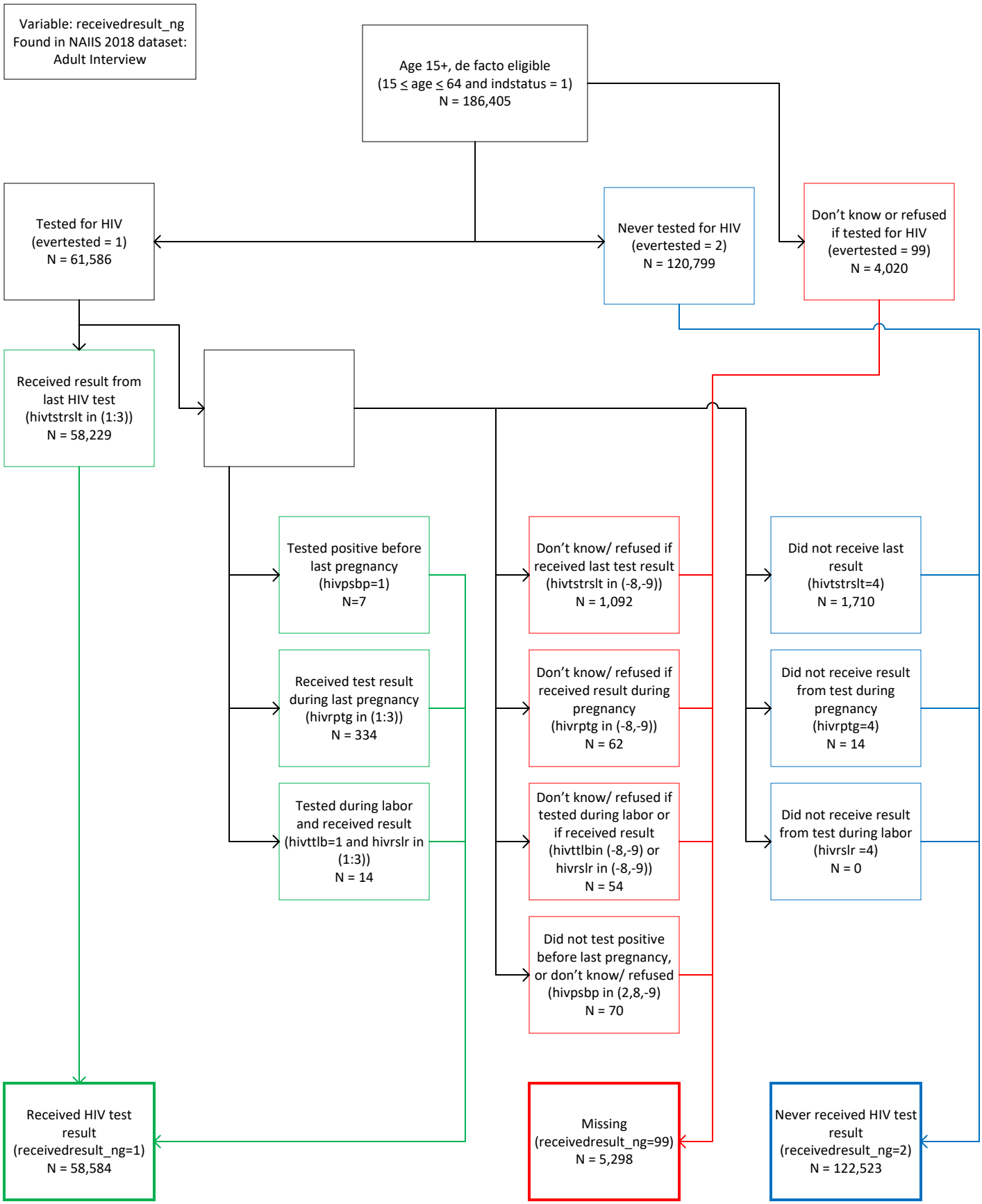

Variable: pedtri90
Found in NAIIS 2018 dataset:
Child Biomarker
Age 0-14, de facto eligible and HIV+
(0 <= age <= 14 and hivstatusfinal* = 1 and
bt_status* = 1)
N = 51
ARVs detected in blood
(arvstatus* = 1)
N = 17
Negative blood test for
ARVs or missing result
(arvstatus* =2 or 99)
N = 34
Parent reported unaware of
child's seropositive status
(pedawareparentreported* = 2)
N = 33
Parent reported aware of
child's seropositive status
(pedawareparentreported* = 1)
N = 1
Parent awareness of child's HIV+
status is missing
(pedawareparentreported* = 99)
N = 0
Parent reported child not on
ART
(pedartparentreported* = 2)
N = 1
Parent reported child on
ART
(pedartparentreported*= 1)
N = 0
Missing parent ART
information
(pedartparentreported*=99)
N = 0
Viral Load
Suppressed
(vls* = 1)
N = 6
Viral Load not
suppressed
(vls* = 2)
N = 11
Missing Viral
Load
(vls* = 99)
N = 0
Viral Load
Suppressed
(vls* = 1)
N = 0
Viral Load not
Suppressed
(vls* = 2)
N = 0
Missing Viral
Load
(vls* = 99)
N = 0
Included in 90-90-90
(pedtri90 = 1)
N = 51
Excluded from 90-90-90
(pedtri90 = 2)
N = 0

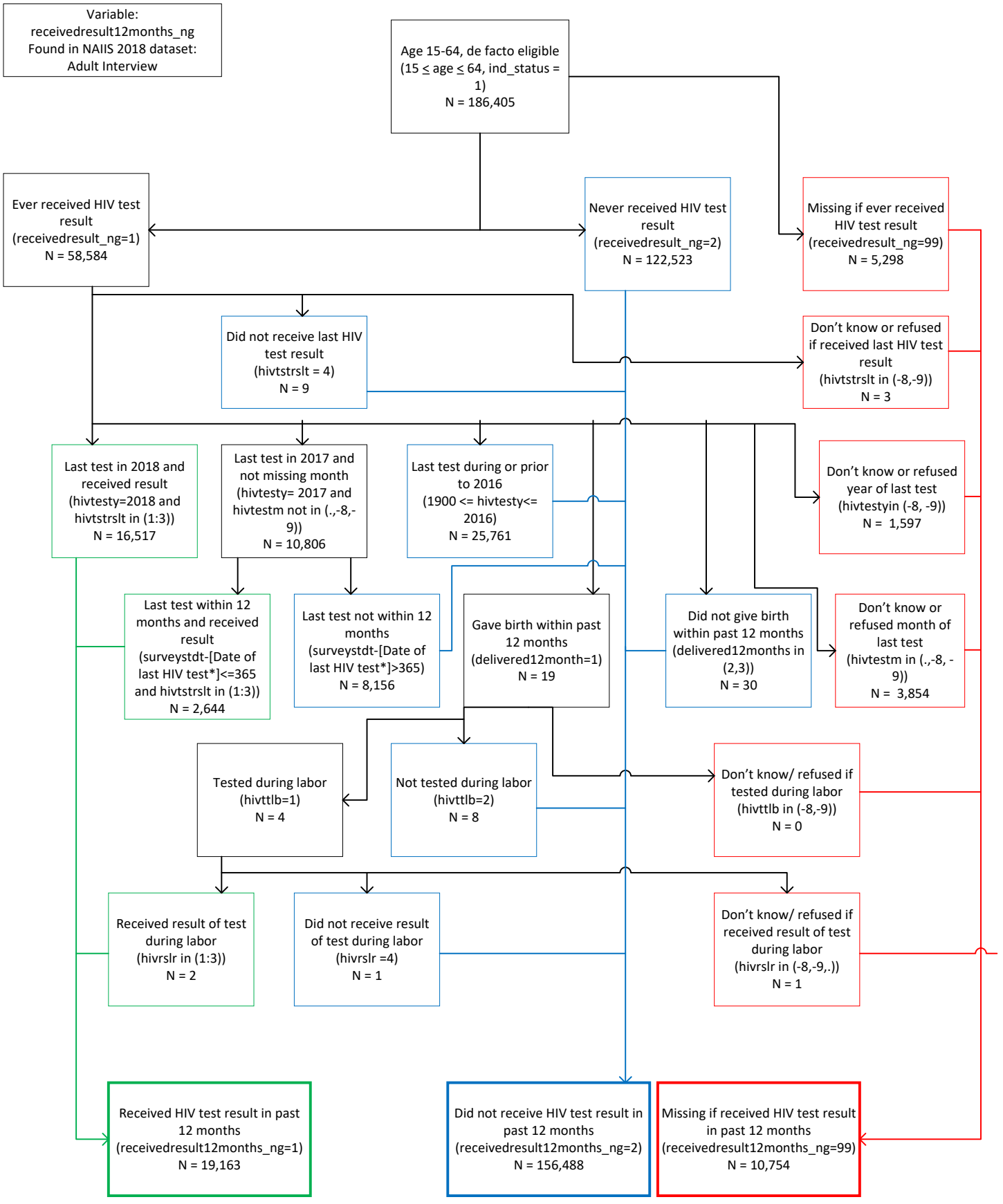

Variable: pedtri90art
Found in NAIIS 2018 dataset:
Child Biomarker
Age 0-14, de facto eligible and HIV+
(0 <= age <= 14 and hivstatusfinal* = 1 and
bt_status* = 1)
N = 51
Included in 90-90-90
(pedtri90* = 1)
N = 51
Excluded from 90-90-90
(pedtri90* = 2)
N = 0
ARVs detected in blood
(arvstatus* = 1)
N = 17
Negative blood test for
ARVs or missing result
(arvstatus* =2 or 99)
N = 34
Parent reported aware of child's
seropositive status
(pedawareparentreported* = 1)
N = 1
Parent reported unaware of child's
seropositive status
(pedawareparentreported* = 2)
N = 33
Parent self-reported child on
ART
(pedartparentreported* = 1)
N = 0
Parent self-reported child not
on ART
(pedartparentreported* = 2)
N = 1
On ART
(pedtritri90art = 1)
Included in 90-90-90
N = 17
Not on ART
(pedtri90art = 2)
Included in 90-90-90
N = 1
Implied not on ART
(pedtri90art = 3)
Included in 90-90-90
N = 33
Incomplete data
(pedtri90art = 99)
Excluded from
90-90-90
N = 0


Variable: pedtri90aware
Found in NAIIS 2018 dataset:
Child Biomarker
Age 0-14, de facto eligible and HIV+
(0 <= age <= 14 and hivstatusfinal* = 1 and
bt_status* = 1)
N = 51
Included in 90-90-90
(pedtri90* = 1)
N = 51
Excluded from 90-90-90
(pedtri90* = 2)
N = 0
ARVs detected in blood
(arvstatus* = 1)
N = 17
Negative blood test for
ARVs or missing result
(arvstatus* =2 or 99)
N = 34
Parent reported aware of
child's seropositive status
(pedawareparentreported* = 1)
N = 1
Parent reported unaware of
child's seropositive status
(pedawareparentreported* = 2)
N = 33
Parent aware
(pedtritri90aware = 1)
Included in 90-90-90
N = 18
Parent unaware
(pedtri90aware = 2)
Included in 90-90-90
N = 33
Incomplete data
(pedtri90aware = 99)
Excluded from 90-90-90
N = 0

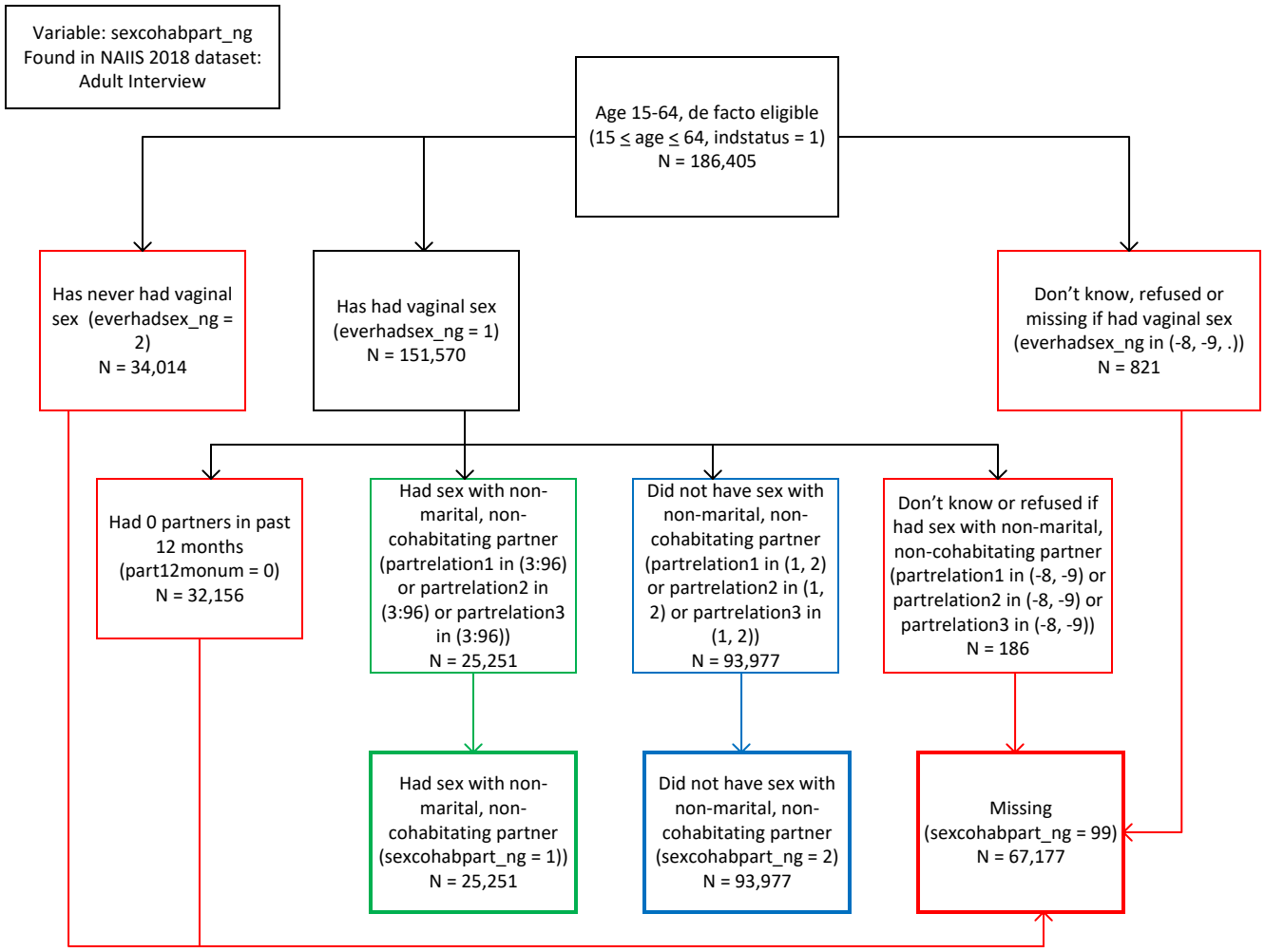

Variable: pedtri90vls
Found in NAIIS 2018 dataset:
Child Biomarker
Age 0-14, de facto eligible and HIV+
(0 <= age <= 14 and hivstatusfinal* = 1 and
bt_status* = 1)
N = 51
On ART
(pedtritri90art* = 1)
Included in 90-90-90
N = 17
Not on ART
(pedtri90art* = 2)
Included in 90-90-90
N = 1
Implied not on ART
(pedtri90art* = 3)
Included in 90-90-90
N = 33
Incomplete data
(pedtri90art* = 99)
Excluded from
90-90-90
N = 0
Viral Load
Suppressed
(vls* = 1)
N = 6
Viral Load
not
Suppressed
(vls* = 2)
N = 11
Viral Load
Suppressed
(vls* = 1)
N = 0
Viral Load
not
Suppressed
(vls* = 2)
N = 1
Missing Viral
Load
(vls* = 99)
N = 0
Viral Load
Suppressed
(vls* = 1)
N = 5
Viral Load
not
Suppressed
(vls* = 2)
N = 28
Missing Viral
Load
(vls* = 99)
N = 0
Viral Load suppressed
(pedtritri90vls = 1)
Included in 90-90-90
N = 6
Viral Load not suppressed
(pedtritri90vls = 2)
Included in 90-90-90
N = 40
Recode as Viral Load not
suppressed
(pedtritri90vls = 3)
Included in 90-90-90
N = 5
Incomplete data
(pedtritri90vls = 99)
Excluded from 90-90-90
N = 0

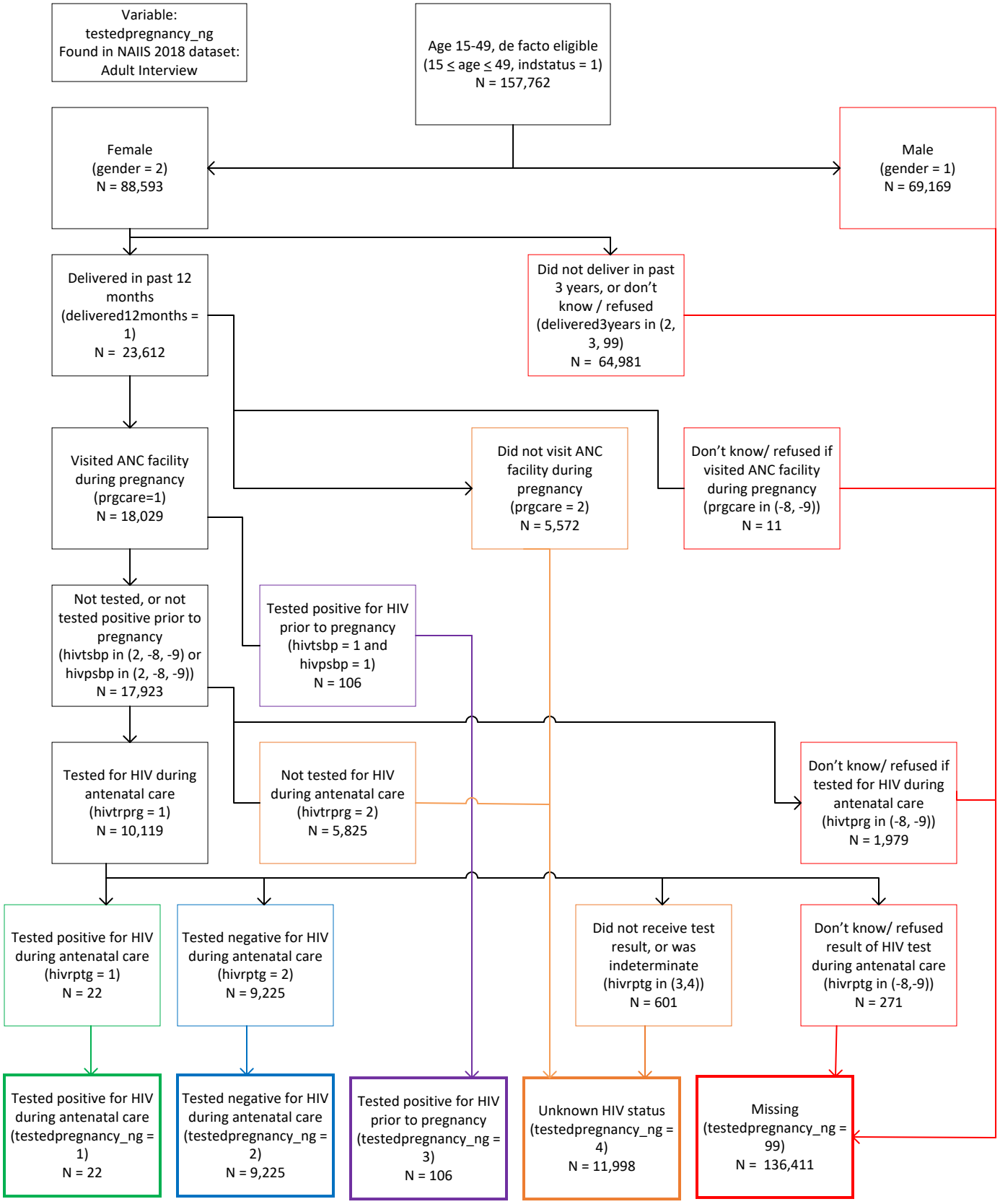

Variable: pregnancystatus
Found in NAIIS 2018
dataset:
Adult Interview
Age 15-64
(indstatus* = 1 and 15 <= age <= 64)
N = 186,405
Female
Gender = 2
N = 103,065
Male
Gender = 1
N = 83,340
Currently Pregnant
(pregnant = 1)
N = 7,678
Not Currently
Pregnant
(pregnant = 2)
N =71,528
Do not know, missing,
or refused
(pregnant = -8, -9, or .)
N = 23,859
Has never been
pregnant
(pregnum = 0)
N = 22,532
Has been pregnant
more than 0 times
(pregnum = 1-97)
N = 951
Do not know, missing,
or refused
(pregnum = -8,-9, or .)
N=376
Currently Pregnant
(pregnancystatus = 1)
N = 7,678
Not Currently Pregnant
(pregnancystatus = 2)
N = 94,060
Missing
(pregnancystatus = 99)
N = 84,667

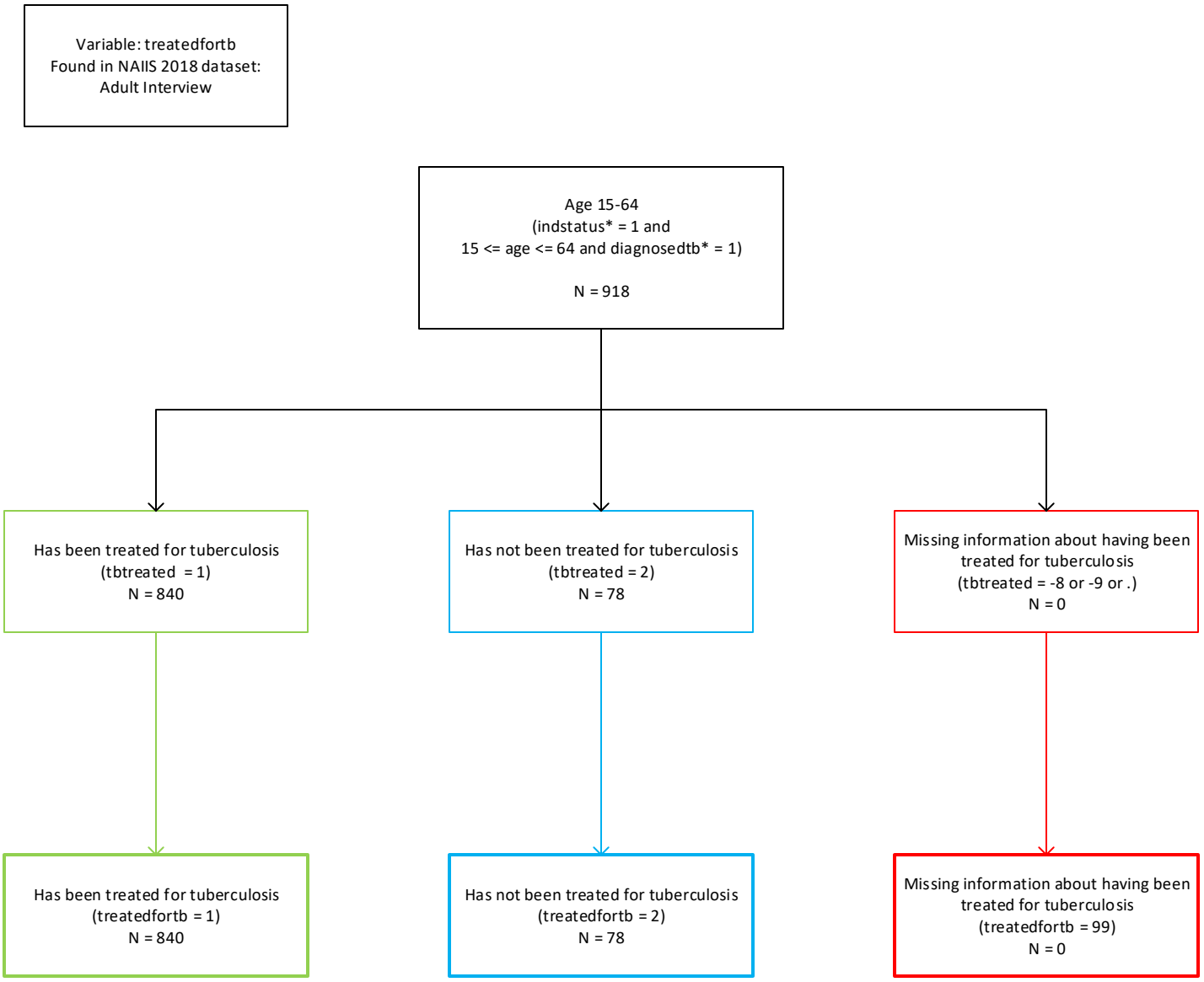

Variable: receivedresult_ng
Found in NAIIS 2018 dataset:
Adult Interview
Age 15+, de facto eligible
(15 ≤ age ≤ 64 and indstatus = 1)
N = 186,405
Tested for HIV
(evertested = 1)
N = 61,586
Never tested for HIV
(evertested = 2)
N = 120,799
Don't know or refused
if tested for HIV
(evertested = 99)
N = 4,020
Received result from
last HIV test
(hivtstrslt in (1:3))
N = 58,229
Tested positive before
last pregnancy
(hivpsbp=1)
N=7
Received test result
during last pregnancy
(hivrptg in (1:3))
N = 334
Tested during labor
and received result
(hivttlb=1 and hivrslr in
(1:3))
N = 14
Don't know/ refused if
received last test result
(hivtstrslt in (-8,-9))
N = 1,092
Don't know/ refused if
received result during
pregnancy
(hivrptg in (-8,-9))
N = 62
Don't know/ refused if
tested during labor or
if received result
(hivttlbin (-8,-9) or
hivrslr in (-8,-9))
N = 54
Did not test positive
before last pregnancy,
or don't know/ refused
(hivpsbp in (2,8,-9)
N = 70
Did not receive last
result
(hivtstrslt=4)
N = 1,710
Did not receive result
from test during
pregnancy
(hivrptg=4)
N = 14
Did not receive result
from test during labor
(hivrslr =4)
N = 0
Received HIV test
result
(receivedresult_ng=1)
N = 58,584
Missing
(receivedresult_ng=99)
N = 5,298
Never received HIV test
result
(receivedresult_ng=2)
N = 122,523

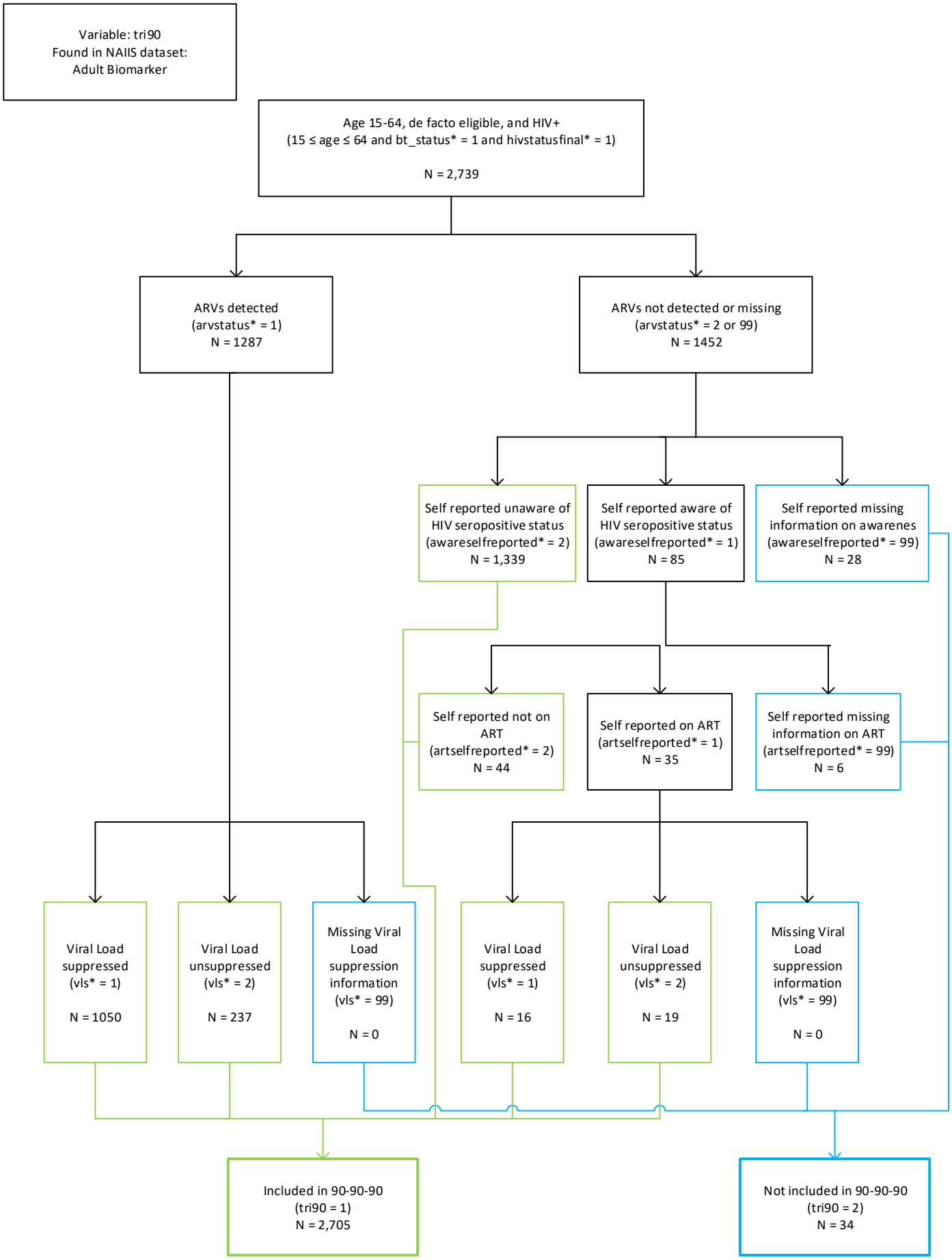


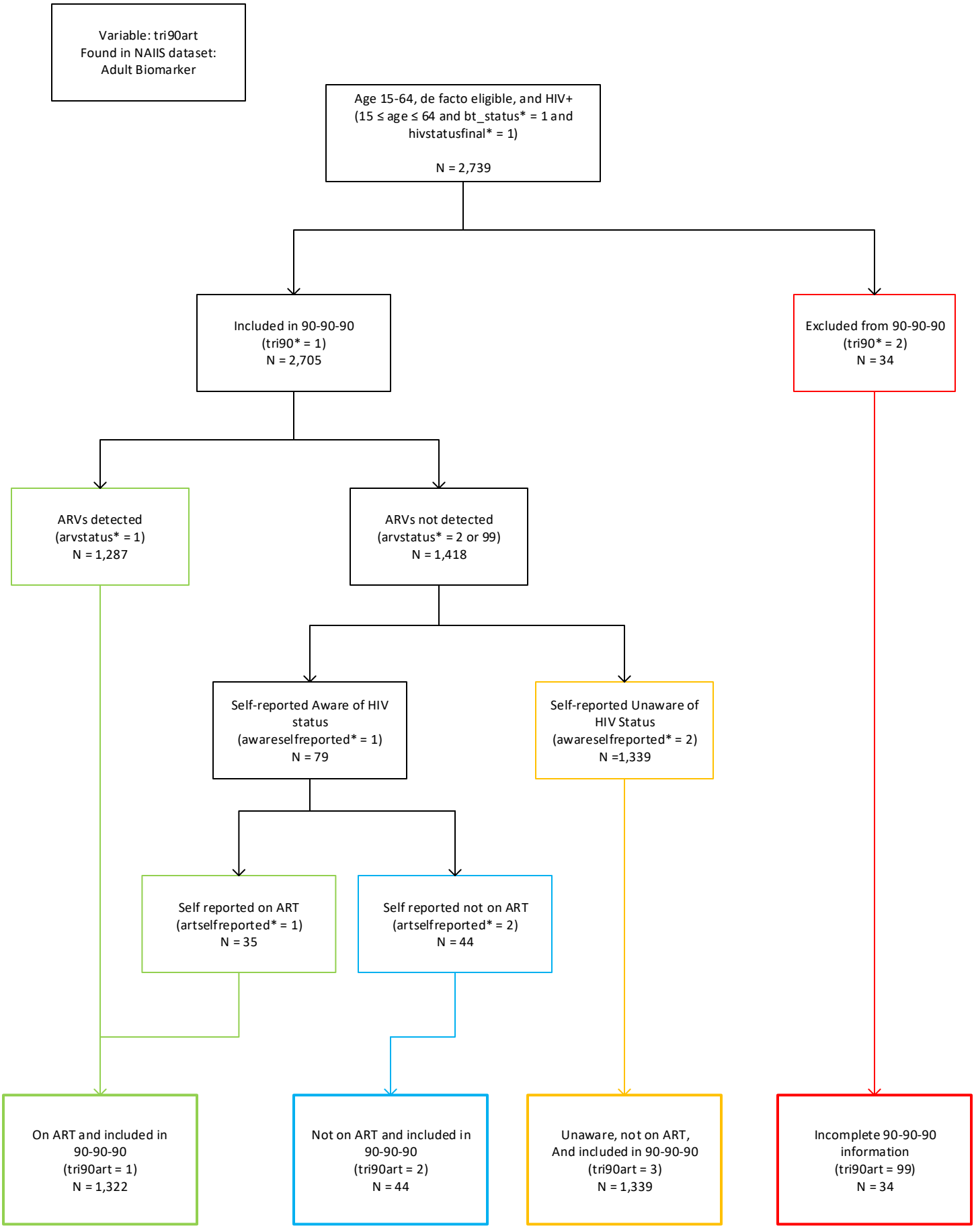
*Date of last HIV test derived from hivtestm (month of last HIV test) and hivtesty (year of last HIV test). A value of 15 was imputed for day of last HIV test, as this information was not captured.

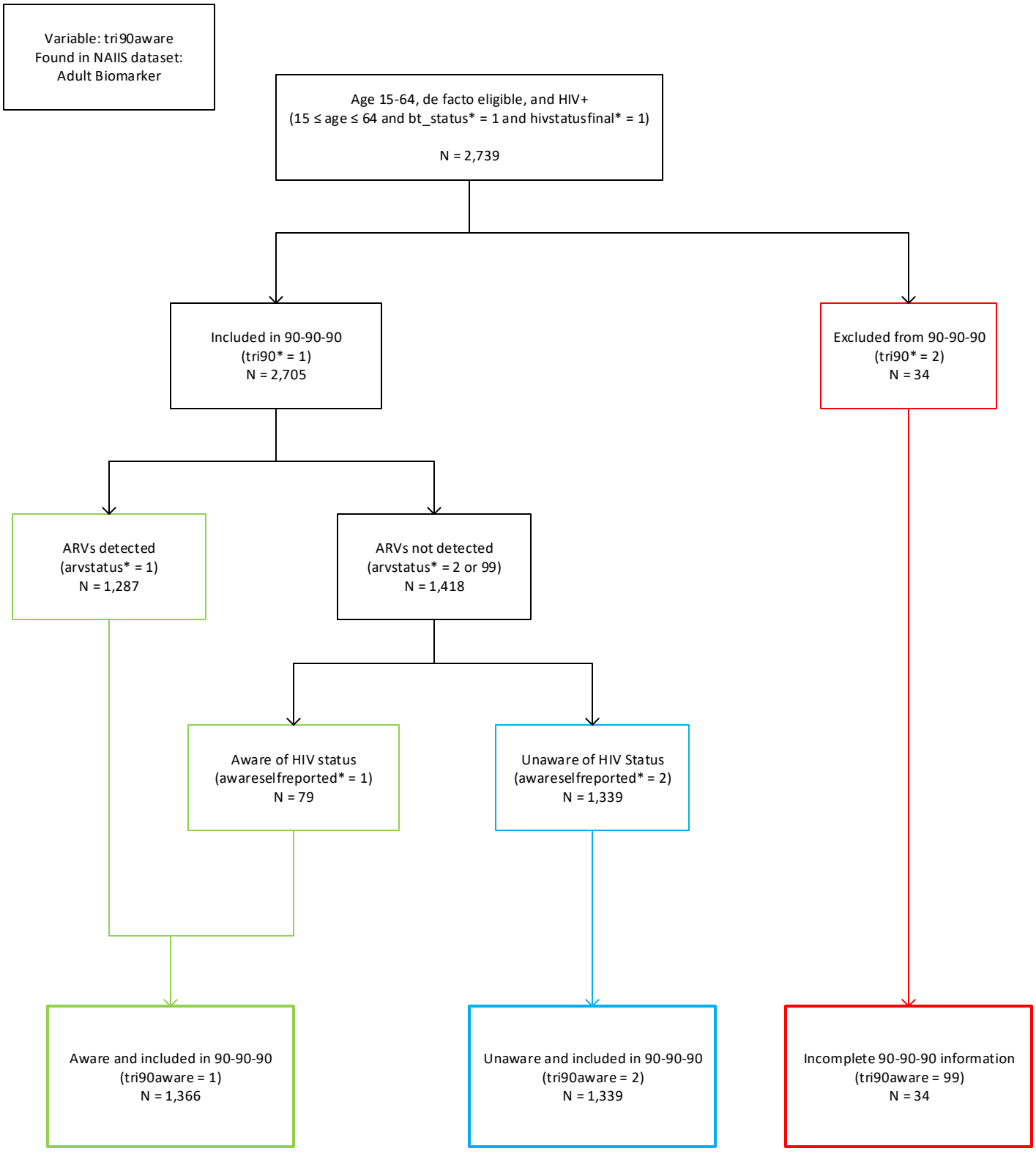

Variable: sexcohabpart_ng
Found in NAIIS 2018 dataset: Adult Interview
Age 15-64, de facto eligible (15 ≤ age ≤ 64, indstatus = 1)
N = 186,405
Has never had vaginal sex (everhadsex_ng = 2)
N = 34,014
Has had vaginal sex (everhadsex_ng = 1)
N = 151,570
Don't know, refused or missing if had vaginal sex (everhadsex_ng in (-8, -9, .))
N = 821
Had 0 partners in past 12 months (part12monum = 0)
N = 32,156
Had sex with non-marital, non-cohabitating partner (partrelation1 in (3:96) or partrelation2 in (3:96) or partrelation3 in (3:96))
N = 25,251
Did not have sex with non-marital, non-cohabitating partner (partrelation1 in (1, 2) or partrelation2 in (1, 2) or partrelation3 in (1, 2))
N = 93,977
Don't know or refused if had sex with non-marital, non-cohabitating partner (partrelation1 in (-8, -9) or partrelation2 in (-8, -9) or partrelation3 in (-8, -9))
N = 186
Had sex with non-marital, non-cohabitating partner (sexcohabpart_ng = 1))
N = 25,251
Did not have sex with non-marital, non-cohabitating partner (sexcohabpart_ng = 2)
N = 93,977
Missing (sexcohabpart_ng = 99)
N = 67,177

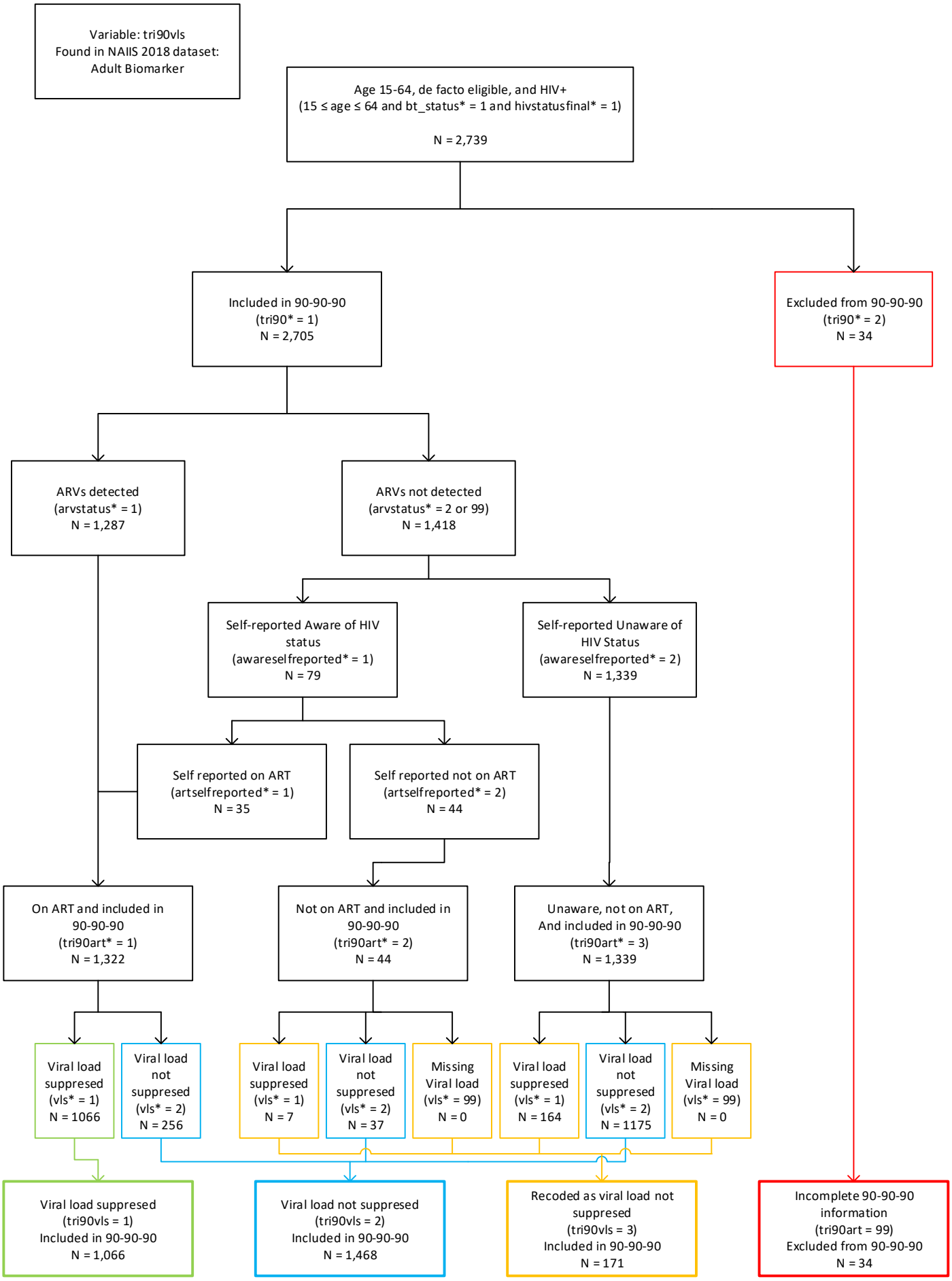

Variable: testedpregnancy_ng Found in NAIIS 2018 dataset: Adult Interview
Age 15-49, de facto eligible (15 ≤ age ≤ 49, indstatus = 1) N = 157,762
Female (gender = 2) N = 88,593
Male (gender = 1) N = 69,169
Delivered in past 12 months (delivered12months = 1) N = 23,612
Did not deliver in past 3 years, or don't know / refused (delivered3years in (2, 3, 99) N = 64,981
Visited ANC facility during pregnancy (prgcare=1) N = 18,029
Did not visit ANC facility during pregnancy (prgcare = 2) N = 5,572
Don't know/ refused if visited ANC facility during pregnancy (prgcare in (-8, -9)) N = 11
Not tested, or not tested positive prior to pregnancy (hivtsbp in (2, -8, -9) or hivpsbp in (2, -8, -9)) N = 17,923
Tested positive for HIV prior to pregnancy (hivtsbp = 1 and hivpsbp = 1) N = 106
Tested for HIV during antenatal care (hivtrprg = 1) N = 10,119
Not tested for HIV during antenatal care (hivtrprg = 2) N = 5,825
Don't know/ refused if tested for HIV during antenatal care (hivtprg in (-8, -9)) N = 1,979
Tested positive for HIV during antenatal care (hivrptg = 1) N = 22
Tested negative for HIV during antenatal care (hivrptg = 2) N = 9,225
Did not receive test result, or was indeterminate (hivrptg in (3,4)) N = 601
Don't know/ refused result of HIV test during antenatal care (hivrptg in (-8,-9)) N = 271
Tested positive for HIV during antenatal care (testedpregnancy_ng = 1) N = 22
Tested negative for HIV during antenatal care (testedpregnancy_ng = 2) N = 9,225
Tested positive for HIV prior to pregnancy (testedpregnancy_ng = 3) N = 106
Unknown HIV status (testedpregnancy_ng = 4) N = 11,998
Missing (testedpregnancy_ng = 99) N = 136,411

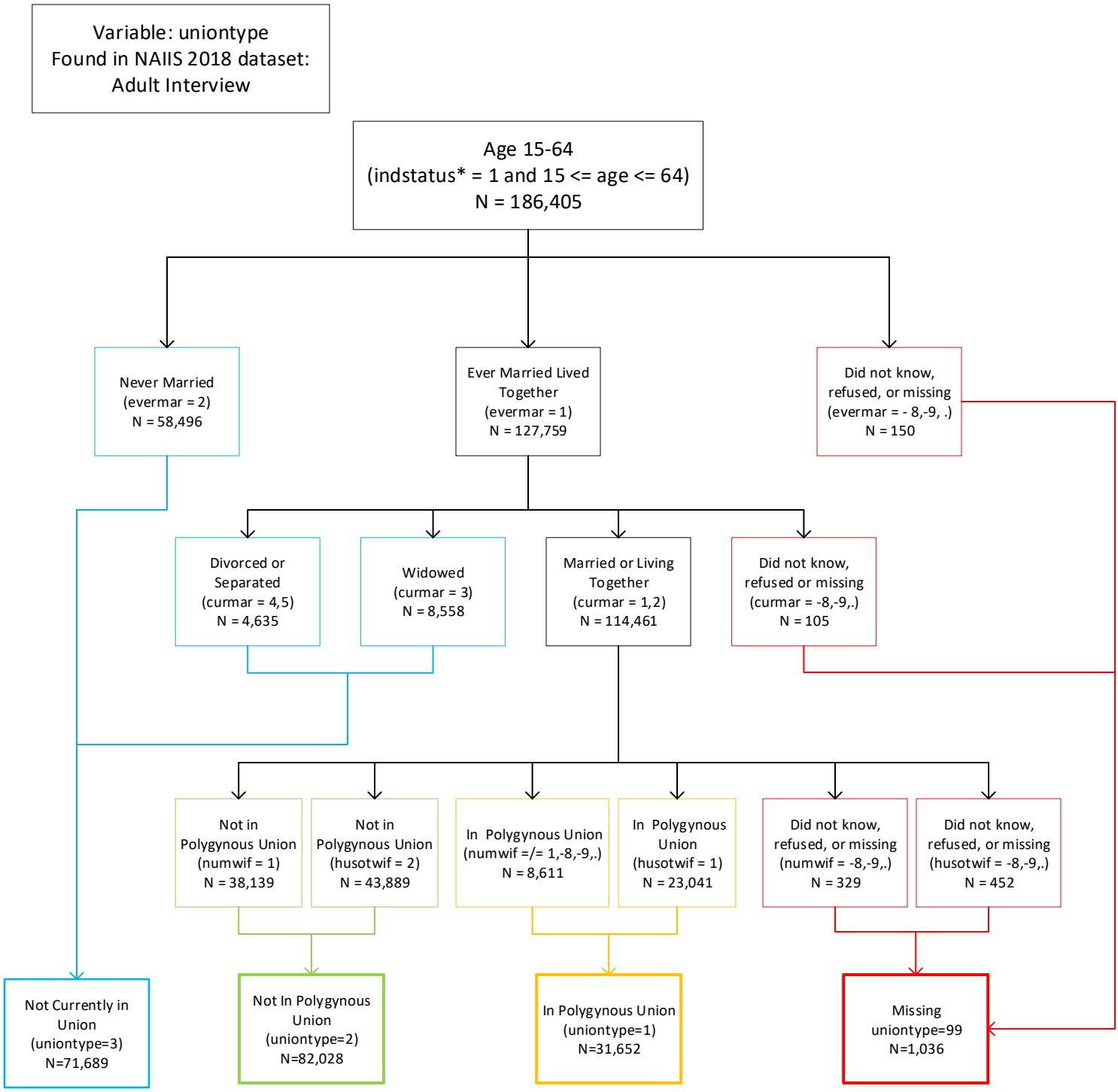

Variable: treatedfortb
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64
(indstatus* = 1 and
15 <= age <= 64 and diagnosedtb* = 1)
N = 918
Has been treated for tuberculosis
(tbtreated = 1)
N = 840
Has not been treated for tuberculosis
(tbtreated = 2)
N = 78
Missing information about having been treated for tuberculosis
(tbtreated = -8 or -9 or .)
N = 0
Has been treated for tuberculosis
(treatedfortb = 1)
N = 840
Has not been treated for tuberculosis
(treatedfortb = 2)
N = 78
Missing information about having been treated for tuberculosis
(treatedfortb = 99)
N = 0

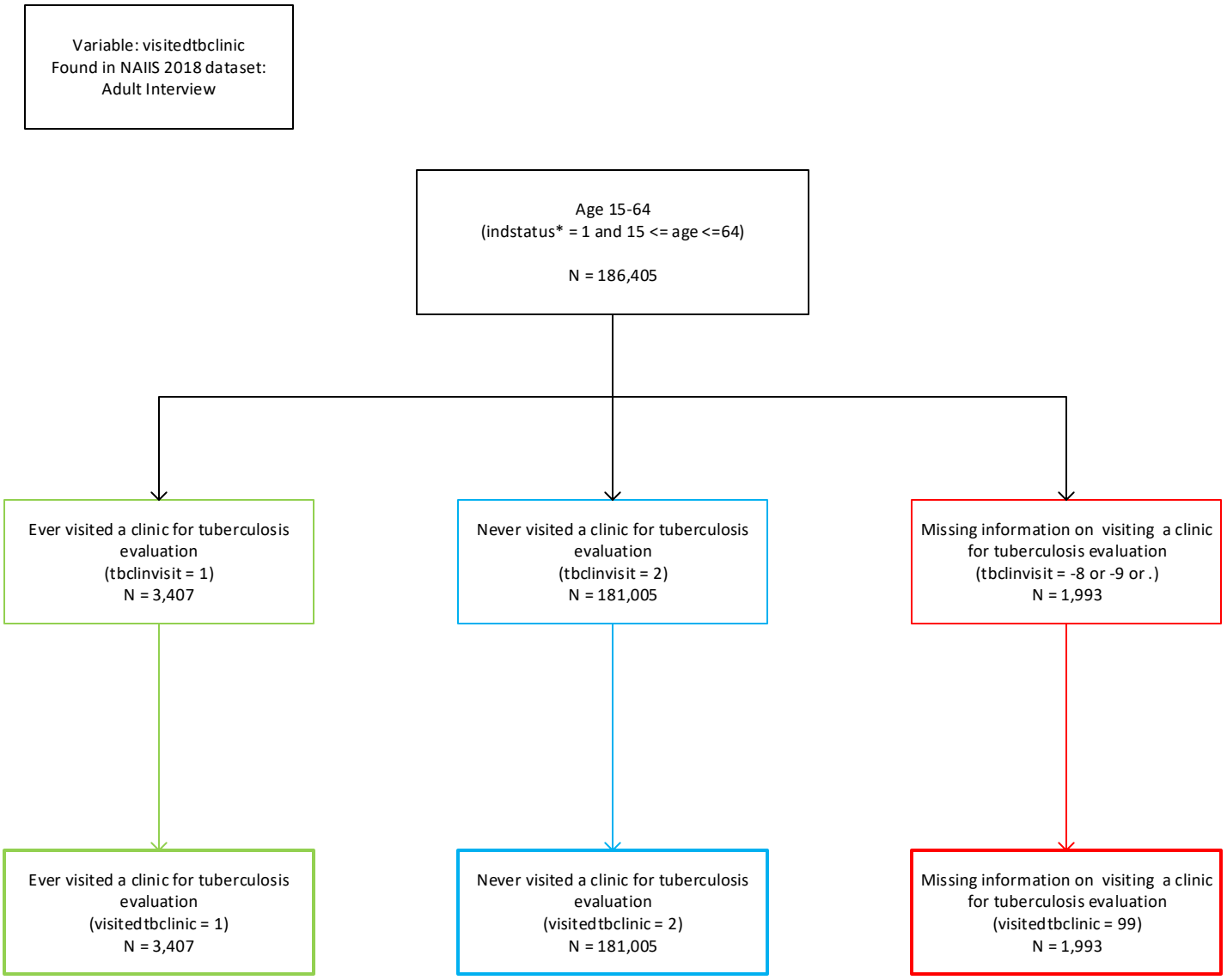

Variable: tri90
Found in NAIIS dataset:
Adult Biomarker
Age 15-64, de facto eligible, and HIV+
(15 ≤ age ≤ 64 and bt_status* = 1 and hivstatusfinal* = 1)
N = 2,739
ARVs detected
(arvstatus* = 1)
N = 1287
ARVs not detected or missing
(arvstatus* = 2 or 99)
N = 1452
Self reported unaware of HIV seropositive status
(awareselfreported* = 2)
N = 1,339
Self reported aware of HIV seropositive status
(awareselfreported* = 1)
N = 85
Self reported missing information on awarenes
(awareselfreported* = 99)
N = 28
Self reported not on ART
(artselfreported* = 2)
N = 44
Self reported on ART
(artselfreported* = 1)
N = 35
Self reported missing information on ART
(artselfreported* = 99)
N = 6
Viral Load suppressed
(vls* = 1)
N = 1050
Viral Load unsuppressed
(vls* = 2)
N = 237
Missing Viral Load suppression information
(vls* = 99)
N = 0
Viral Load suppressed
(vls* = 1)
N = 16
Viral Load unsuppressed
(vls* = 2)
N = 19
Missing Viral Load suppression information
(vls* = 99)
N = 0
Included in 90-90-90
(tri90 = 1)
N = 2,705
Not included in 90-90-90
(tri90 = 2)
N = 34


Variable: tri90art
Found in NAIIS dataset:
Adult Biomarker
Age 15-64, de facto eligible, and HIV+
(15 ≤ age ≤ 64 and bt_status* = 1 and
hivstatusfinal* = 1)
N = 2,739
Included in 90-90-90
(tri90* = 1)
N = 2,705
Excluded from 90-90-90
(tri90* = 2)
N = 34
ARVs detected
(arvstatus* = 1)
N = 1,287
ARVs not detected
(arvstatus* = 2 or 99)
N = 1,418
Self-reported Aware of HIV
status
(awareselfreported* = 1)
N = 79
Self-reported Unaware of
HIV Status
(awareselfreported* = 2)
N =1,339
Self reported on ART
(artselfreported* = 1)
N = 35
Self reported not on ART
(artselfreported* = 2)
N = 44
On ART and included in
90-90-90
(tri90art = 1)
N = 1,322
Not on ART and included in
90-90-90
(tri90art = 2)
N = 44
Unaware, not on ART,
And included in 90-90-90
(tri90art = 3)
N = 1,339
Incomplete 90-90-90
information
(tri90art = 99)
N = 34


Variable: tri90aware
Found in NAIIS dataset:
Adult Biomarker
Age 15-64, de facto eligible, and HIV+
(15 ≤ age ≤ 64 and bt_status* = 1 and hivstatusfinal* = 1)
N = 2,739
Included in 90-90-90
(tri90* = 1)
N = 2,705
Excluded from 90-90-90
(tri90* = 2)
N = 34
ARVs detected
(arvstatus* = 1)
N = 1,287
ARVs not detected
(arvstatus* = 2 or 99)
N = 1,418
Aware of HIV status
(awareselfreported* = 1)
N = 79
Unaware of HIV Status
(awareselfreported* = 2)
N = 1,339
Aware and included in 90-90-90
(tri90aware = 1)
N = 1,366
Unaware and included in 90-90-90
(tri90aware = 2)
N = 1,339
Incomplete 90-90-90 information
(tri90aware = 99)
N = 34


Variable: tri90vls
Found in NAIIS 2018 dataset:
Adult Biomarker
Age 15-64, de facto eligible, and HIV+
(15 ≤ age ≤ 64 and bt_status* = 1 and hivstatusfinal* = 1)
N = 2,739
Included in 90-90-90
(tri90* = 1)
N = 2,705
Excluded from 90-90-90
(tri90* = 2)
N = 34
ARVs detected
(arvstatus* = 1)
N = 1,287
ARVs not detected
(arvstatus* = 2 or 99)
N = 1,418
Self-reported Aware of HIV status
(awareselfreported* = 1)
N = 79
Self-reported Unaware of HIV Status
(awareselfreported* = 2)
N = 1,339
Self reported on ART
(artselfreported* = 1)
N = 35
Self reported not on ART
(artselfreported* = 2)
N = 44
On ART and included in 90-90-90
(tri90art* = 1)
N = 1,322
Not on ART and included in 90-90-90
(tri90art* = 2)
N = 44
Unaware, not on ART,
And included in 90-90-90
(tri90art* = 3)
N = 1,339
Viral load suppresed
(vls* = 1)
N = 1066
Viral load not suppresed
(vls* = 2)
N = 256
Viral load suppresed
(vls* = 1)
N = 7
Viral load not suppresed
(vls* = 2)
N = 37
Missing Viral load
(vls* = 99)
N = 0
Viral load suppresed
(vls* = 1)
N = 164
Viral load not suppresed
(vls* = 2)
N = 1175
Missing Viral load
(vls* = 99)
N = 0
Viral load suppresed
(tri90vls = 1)
Included in 90-90-90
N = 1,066
Viral load not suppresed
(tri90vls = 2)
Included in 90-90-90
N = 1,468
Recoded as viral load not suppresed
(tri90vls = 3)
Included in 90-90-90
N = 171
Incomplete 90-90-90 information
(tri90art = 99)
Excluded from 90-90-90
N = 34


Variable: uniontype
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64
(indstatus* = 1 and 15 <= age <= 64)
N = 186,405
Never Married
(evermar = 2)
N = 58,496
Ever Married Lived Together
(evermar = 1)
N = 127,759
Did not know, refused, or missing
(evermar = - 8,-9, .)
N = 150
Divorced or Separated
(curmar = 4,5)
N = 4,635
Widowed
(curmar = 3)
N = 8,558
Married or Living Together
(curmar = 1,2)
N = 114,461
Did not know, refused or missing
(curmar = -8,-9,.)
N = 105
Not in Polygynous Union
(numwif = 1)
N = 38,139
Not in Polygynous Union
(husotwif = 2)
N = 43,889
In Polygynous Union
(numwif =/= 1,-8,-9,.)
N = 8,611
In Polygynous Union
(husotwif = 1)
N = 23,041
Did not know, refused, or missing
(numwif = -8,-9,.)
N = 329
Did not know, refused, or missing
(husotwif = -8,-9,.)
N = 452
Not Currently in Union
(uniontype=3)
N=71,689
Not In Polygynous Union
(uniontype=2)
N=82,028
In Polygynous Union
(uniontype=1)
N=31,652
Missing
uniontype=99
N=1,036


Variable: visitedtbclinic
Found in NAIIS 2018 dataset:
Adult Interview
Age 15-64
(indstatus* = 1 and 15 <= age <=64)
N = 186,405
Ever visited a clinic for tuberculosis evaluation
(tbclinvisit = 1)
N = 3,407
Never visited a clinic for tuberculosis evaluation
(tbclinvisit = 2)
N = 181,005
Missing information on visiting a clinic for tuberculosis evaluation
(tbclinvisit = -8 or -9 or .)
N = 1,993
Ever visited a clinic for tuberculosis evaluation
(visitedtbclinic = 1)
N = 3,407
Never visited a clinic for tuberculosis evaluation
(visitedtbclinic = 2)
N = 181,005
Missing information on visiting a clinic for tuberculosis evaluation
(visitedtbclinic = 99)
N = 1,993