



NIGERIA HIV/AIDS INDICATOR AND IMPACT SURVEY

ADULT BIOMARKER CODEBOOK



NOVEMBER 2020

PARTNERS



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NIGERIA HIV/AIDS INDICATOR AND IMPACT SURVEY (NAIIS) 2018

ADULT BIOMARKER CODEBOOK

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

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#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.

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NAIIS 2018, Adult Biomarker Codebook

Number of Variables	51
Number of Observations	177,026

NAIIS 2018, Adult Biomarker Codebook

Variable order in Adult Bio dataset	Variable	Variable Category	Question Description	Question Type	Coding Values and Labels
1	country	ID variable	Country Name		
2	householdid	ID variable	Household ID		
3	personid	ID variable	Participant ID		
4	surveystmonth	Analytic	Month of survey start date	date(month)	1 - January 2 - February 3 - March 4 - April 5 - May 6 - June 7 - July 8 - August 9 - September 10 - October 11 - November 12 - December
5	surveystyear	Analytic	Year of survey start date	date(year)	
6	gender	Analytic	Combined gender, giving preference to the gender collected in the adult or adolescent questionnaire	select one	1 - Male 2 - Female
7	age	Analytic	Combined age in years, giving preference to age collected in the individual questionnaire	integer	15, 16, 17, ...,64
8	zone_ng	ID variable	Geopolitical zone	select one	1 - Northwest 2 - Northeast 3 - Northcentral 4 - Southeast 5 - South-south 6 - Southwest
9	urban	Analytic	Type of place of residence	select one	1 - Urban 2 - Rural
10	wealthquintile	Analytic	Wealth quintiles	select one	1 - Lowest 2 - Second 3 - Middle 4 - Fourth 5 - Highest
11	hepb1result	Biomarker	Test result(1)	select one	0 - Indeterminate 1 - Negative 2 - Positive

NAIIS 2018, Adult Biomarker Codebook

Variable order in Adult Bio dataset	Variable	Variable Category	Question Description	Question Type	Coding Values and Labels
12	hepb2result	Biomarker	Test result(2)	select one	0 - Indeterminate 1 - Negative 2 - Positive
13	hiv1statusfinalsurvey	Biomarker	HIV-1 status: final, for survey analysis	select one	1 - Positive 2 - Negative
14	hiv2statusfinalsurvey	Biomarker	HIV-2 status: final, for survey analysis	select one	1 - Positive 2 - Negative
15	cd4count	Biomarker	CD4 count: instrument reading preferred over ODK transcription	continuous	
16	hepbresult	Biomarker	Hepatitis B test result for adults	select one	1 - Hepatitis B positive 2 - Hepatitis B negative 99 - Missing
17	hcvvl	Biomarker	Hepatitis C Viral Load	continuous	
18	hepcresult	Biomarker	Hepatitis C Test Result	select one	1 - Hepatitis C positive 2 - Hepatitis C negative 99 - Missing
19	lagodnfinal	Biomarker	Limiting Antigen Avidity Assay Optical Density (Recency Test)	continuous	
20	arvatv	Biomarker	Result of test for Atazanavir in blood	select one	1 - Positive 2 - Negative
21	arvefv	Biomarker	Result of test for Efavirenz in blood	select one	1 - Positive 2 - Negative
22	arvlpv	Biomarker	Result of test for Lopinavir in blood	select one	1 - Positive 2 - Negative
23	arvnvp	Biomarker	Result of test for Nevirapin in blood	select one	1 - Positive 2 - Negative
24	resultvlc	Biomarker	Viral Load: result of viral load test (character)	string	
25	cd4cat	Analytic	CD4 categories	select one	1 - CD4 less than 100 2 - CD4 greater than or equal to 100 and less than 200 3 - CD4 greater than or equal to 200 and less than 350 4 - CD4 greater than or equal to 350 and less than 500 5 - CD4 greater than or equal to 500 99 - CD4 missing
26	virallloadcat_ng	Analytic	Viral load, 5 categories	select one	1 - Not virally suppressed ($\geq 1,000$) 2 - Viral load greater than or equal 200 and less than 1,000 3 - Viral load greater than or equal 40 and less

NAIIS 2018, Adult Biomarker Codebook

Variable order in Adult Bio dataset	Variable	Variable Category	Question Description	Question Type	Coding Values and Labels
					than 200 4 - Viral load detected and less 40 5 - Target not detected
27	hivstatusfinal	Analytic	Final HIV Status	select one	1 - HIV Positive 2 - HIV Negative 99 - Missing
28	hiv2statusfinal	Biomarker	Numeric code corresponding to hiv2statusfinalsurvey	select one	1 - HIV Positive 2 - HIV Negative 99 - Missing
29	hiv12statusfinal	Biomarker	Indicator of HIV-1 or HIV-2 positive status, corresponding to hiv1statusfinalsurvey and hiv2statusfinalsurvey	select one	1 - HIV-1 or HIV-2 Positive 2 - HIV-1 and HIV-2 Negative 99 - Missing
30	bt_status	Response variable	Did LAB blood test have definite result?	select one	1 - Yes 2 - No 99 – Lab blood test has a definite result, non de facto participants
31	incidence_classification_ng	Biomarker	Incidence classification	select one	
32	recentlagvl	Analytic	LAG: recent/long term infection, final, code	select one	1 - Positive: recent 2 - Positive: long term 99 - Missing/Not applicable
33	recentlagvlarv	Analytic	LAG: recent/long term infection, final, code; considers laboratory ARV results	select one	1 - Positive: recent 2 - Positive: long term 99 - Missing/Not applicable
34	awareselfreported	Analytic	Indicator of whether individual is self-reported as aware of their HIV seropositive status	select one	1 - Self reported aware of HIV+ status 2 - Self reported not aware of HIV+ status 99 - Missing
35	artselfreported	Analytic	Indicator whether individual is on art among adults age 15-64	select one	1 - Self reported on ART 2 - Self reported not on ART 99 - Missing
36	awareartselfreported	Analytic	Determines if patient self-reported as previously diagnosed and if they were on ART	select one	1 - Unaware of HIV Status 2 - Not on ART 3 - On ART 99 - Missing

NAIIS 2018, Adult Biomarker Codebook

Variable order in Adult Bio dataset	Variable	Variable Category	Question Description	Question Type	Coding Values and Labels
37	arvstatus	Analytic	Indicator of whether ARVs were detected	select one	1 - ARVs detected 2 - ARVs not detected 99 - Missing
38	aware	Analytic	Awareness combining self-report and ARV testing among adults 15-64	select one	1 - Aware of HIV+ status 2 - Not aware of HIV+ status 99 - Missing
39	art	Analytic	Indicator of whether on art combining self-report and ARV testing	select one	1 - On ART 2 - Not on ART 99 - Missing
40	awareart	Analytic	Determine if patient was previously diagnosed and if they were on ART	select one	1 - Unaware of HIV Status 2 - Not on ART 3 - On ART 99 - Missing
41	artinitiated12months	Analytic	Art initiated in last 12 months	select one	1 - Self-reported initiating ART 12 months or more prior to the survey 2 - Self-reported initiating ART less than 12 months prior to the survey 99 - Missing
42	artduration	Analytic	Duration of time on art	select one	1 - On ART 24 months or more 2 - On ART 12-23 months 3 - On ART < 12 months 4 - Not on ART 99 - Missing
43	vls	Analytic	Indicator of whether individual has suppressed viral load	select one	1 - Virally suppressed 2 - Not virally suppressed 99 - Missing
44	tri90	Analytic	Flag for inclusion in 90-90-90 analysis	select one	1 - Included in 90-90-90 2 - Not included in 90-90-90
45	tri90aware	Analytic	Indicator of whether individual is aware of their HIV seropositive status for 90-90-90 analysis	select one	1 - Aware and included in 90-90-90 2 - Unaware and included in 90-90-90 99 - Incomplete 90-90-90 information excluded from 90-90-90
46	tri90art	Analytic	Indicator of whether individual is on ART, for 90-90-90 analysis	select one	1 - On ART and included in 90-90-90 2 - Not on ART and included in 90-90-90

NAIIS 2018, Adult Biomarker Codebook

Variable order in Adult Bio dataset	Variable	Variable Category	Question Description	Question Type	Coding Values and Labels
					3 - Unaware, not on ART, and included in 90-90-90 99 - Incomplete 90-90-90 information excluded from 90-90-90
47	tri90vls	Analytic	Indicator of whether individual has suppressed viral load, for 90-90-90 analysis	select one	1 - Viral load suppressed included in 90-90-90 2 - Viral load not suppressed included in 90-90-90 3 - Recoded as viral load not suppressed included in 90-90-90 99 - Incomplete 90-90-90 information excluded from 90-90-90
48	btwt0	Weighting variable	Blood Test Final Weight	continuous	
49	varstrat	Weighting variable	Variance strata identifier	integer	1, 2, 3, ..., 56
50	varunit	Weighting variable	Variance Unit Identifier	integer	1, 2, 3, ..., 4035
51	hepwgt	Weighting variable	Hepatitis Weight	continuous	