

Malawi - NCD Combined analytical dataset

Malawi Epidemiology and Intervention Research Unit

Report generated on: November 19, 2025

Visit our data catalog at: <http://192.168.0.96/microdataportal/index.php>

Identification

SURVEY ID NUMBER

MWI-MEIRU-NCD-2013-v1.0

TITLE

NCD Combined analytical dataset

COUNTRY

Name	Country code
Malawi	MWI

STUDY TYPE

Sample Survey

ABSTRACT

Non communicable diseases are increasingly becoming important causes of morbidity and mortality in sub-Saharan Africa. However, the dearth of data, especially population-based data on the NCD burden and determinants impedes appropriate public health response.

In Malawi, studies done prior to the MEIRU NCD survey showed an increasing burden of NCDs. These studies were either small or hospital based. A more detailed and larger study was still needed in order to better understand and to develop novel interventions to control these conditions.

The purpose of the MEIRU NCD survey was to describe the burden and determinants of hypertension, diabetes and lipid disorders in rural and urban Malawi, to provide a platform for investigation of development of cardio-metabolic disorders and to inform and context specific interventions for treatment and prevention.

The objectives of the survey were as follows:

- (1) To quantify the true burden of hypertension, diabetes and hyperlipidaemia
- (2) to measure the prevalence of the known risk factors - notably smoking, obesity, physical inactivity, alcohol, salt and saturated fat intake
- (3) To measure the association between HIV-infection or its therapy and increased risk of NCDs
- (4) To measure the uptake of and retention in chronic care among patients identified during the survey with hypertension or diabetes

All adults aged 18 years and above self-defining as usually resident in geographically demarcated rural (Karonga demographic Surveillance Area) and urban (Lilongwe Area 25 residential area) communities were eligible to participate in the survey.

First visit to households in the study area was used to provide information and to seek consent to participate in the study. The second visit was by a trained nurse to administer a questionnaire on lifestyle, to take blood pressure and anthropometric measurements. The third visit was for collection of fasting blood sample and to offer HIV screening

KIND OF DATA

Sample survey data

UNIT OF ANALYSIS

Individual

Version

VERSION DESCRIPTION

v1: Edited data, First version, for internal use only.

VERSION DATE

2017-01-13

Scope

NOTES

Demographic data,
Marital status and spouse information,
Household SES,
Smoking, indoor smoke and Alcohol use
Diets
Physical Activity
Pregnancy
Medical history
Family history
Blood pressure measurement
Anthropometric measurement

KEYWORDS

Keyword
Non-communicable diseases
Hypertension
Diabetes
Epidemiology
Malawi
overweight
obesity
Cardiovascular disease
Physical inactivity
Systolic Blood Pressure
Diastolic Blood Pressure

Coverage

GEOGRAPHIC COVERAGE

Karonga HDSS and Lilongwe Area 25 residential area

UNIVERSE

All adults aged 18 years and above who were usually resident in the Karonga HDSS and in Lilongwe Area 25 at the time of the survey

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Prof Moffat Nyirenda	Malawi Epidemiology and Intervention Research Unit
Prof Shabbar Jaffar	

PRODUCERS

Name	Abbreviation	Affiliation	Role
------	--------------	-------------	------

Dr Charles Mwansambo	CM	Ministry of Health	Principal Secretary
Dr Ben Chilima	BC	Community Health Sciences Unit	Director
Dr Storn Kabuluzi	SK	Preventive Health	Director
Dr George Chitope-Mwale	GCM	Clinical Services	Director
Dr Beatrice Mwagomba	BM	NCDs & Mental Health	Programme Manager
Dr Mwawi Mwale	MM	Ministry of Health	District Health Officer(Lilongwe)
Dr Mia Crampin	MC	Malawi Epidemiology and Intervention Research Unit and London School of Hygiene and Tropical Medicine	Scientific Programme Manager and Clinical Senior Lecturer
Dr Michael Kayange	MK	Ministry of Health	District Health Officer(Karonga)
Dr Alemayehu Ambebir	AA	London School of Hygiene and Tropical Medicine	Research Fellow in Epidemiology
Dr Amos Phiri	AP	Malawi Epidemiology and Intervention Research Unit	Laboratory Manager
Dr Alison Price	AP	London School of Hygiene and Tropical Medicine	Research Fellow in Epidemiology (part time)
Dr Terence Tafatatha	TT	Malawi Epidemiology and Intervention Research Unit	Research Scientist
Prof Shah Ebrahim	SE	London School of Hygiene and Tropical Medicine	Prof of Public Health
Prof Peter Piot	PP	London School of Hygiene and Tropical Medicine	Director
Prof Tony Harries	TH	London School of Hygiene and Tropical Medicine	Public Health Researcher

FUNDING AGENCY/SPONSOR

Name	Role
Wellcome Trust	All stages of data production process

OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name	Affiliation
Dr Yusuf Hamied	CIPLA

Data collection

DATES OF DATA COLLECTION

Start	End
2013-05-15	2016-07-04

DATA COLLECTION MODE

Face-to-face [f2f]

DATA COLLECTORS

Name	Abbreviation
Malawi Epidemiology And intervention Research Unit	MEIRU

Questionnaires

QUESTIONNAIRES

Non-Communicable Diseases Questionnaire (NCDQ), Blood pressure cohort study(Consent form), Clinical form at follow-up (CFF), Clinical form at baseline (CFB) , Home visit form (HVF), NCD outpatient attendance form (OPF), Retinopathy screening form (RSF), Pedometer Study Form (PSF), Blood Pressure Cohort (BPF),NCD Consent form, Costs of coming to a health care clinic (CAC) form, Clinic Information Sheet, NCD Enumeration Form (NEF), Diabetic foot screening form (DSF)_v1 ,Diabetic foot screening form (DSF)_v2, Karonga_Migrant study form, Lilongwe_Migrant study form and Migrants study Info sheet and consent form - English.

Access policy

ACCESS CONDITIONS

This data is made available for licensed access under the following conditions:

1. Data and other material provided by MEIRU will not be redistributed or sold to other individuals, institutions or organisations without MEIRU's written agreement.
2. In the case of multi-centre datasets, data originating from a single contributing member centre of the collaboration may not be analysed or reported on in isolation without the express permission of the member centre concerned.
3. No attempt will be made to re-identify respondents, and there will be no use of the identity of any person or establishment discovered inadvertently. Any such discovery will be reported immediately to MEIRU.
4. No attempt will be made to produce links between datasets provided by MEIRU or between MEIRU data and other datasets that could identify individuals.
5. Any books, articles, conference papers, theses, dissertations, reports or other publications employing data obtained from MEIRU will cite the source, in line with the citation requirement provided with the dataset.
6. An electronic copy of all publications based on the requested data will be sent to MEIRU.
7. MEIRU, MEIRU research collaborators and the relevant funding agencies bear no responsibility for the data's use or interpretation or inferences based upon it.

ACCESS AUTHORITY

Name
Malawi Epidemiology and Intervention Research Unit

ARCHIVE WHERE STUDY IS ORIGINALLY STORED

Lilongwe

Metadata production

DDI DOCUMENT ID

DDI-MWI-MEIRU-NCD-Combined-2013-v1.0

PRODUCERS

Name	Abbreviation	Affiliation	Role
Estelle McLean	EM	LSHTM and MEIRU	Production of the documentation used to create this DDI document.
Jacky Saul	JS	LSHTM and MEIRU	Production of the documentation used to create this DDI document.

Keith Branson	KB	LSHTM and MEIRU	Production of the documentation used to create this DDI document.
Chifundo Kanjala	CK	MEIRU	Documentation planning and supervision.
Dominic Nzundah	DN	MEIRU	Metadata entry and editing.
Elizabeth Munthali	EM	MEIRU	Input for metadata production.
Louis Banda	LB	MEIRU	Input for laboratory data files metadata production.
Malawi Epidemiology and Intervention Research Unit	MEIRU		Agency

DATE OF METADATA PRODUCTION

2018-09-26

DDI DOCUMENT VERSION

Version 1.0 (February,2018)

Data Dictionary

Data file	Cases	Variables
ncd_combined_data_all Main questionnaire data For Karonga data ncdk_personal, ncdk_pershh and ncdk_persexam are merged on stid to ncdk_fieldlog, which provides the link to the ident, date of birth is merged in from gen_identity using ident. If a person appears in more than one household their first interview is kept. Marital status was not asked in Karonga so the nearest marital status report from css_seird1_8 or css_sei is merged into the NCD dataset using ident. The number of adults and children living in the house was also not asked in Karonga, so these are calculated using crs_memball by identifying people with an residency episode in the house which includes the NCD data, calculating their age (using the date of birth from gen_identity) and counting the people in different age groups: these summary variables are then merged into the NCD data on the house variable. For Lilongwe data ncdl_identity, ncdl_personal, ncdl_pershh and ncdl_persexam are merged on stid to ncdl_fieldlog, and ncdl_hhf is merge in on lhhno. If a person appears in more than one household their first interview is kept. The Karonga and Lilongwe data are then appended together. NCD substudies The sub-study tables (ncdk_hvf, ncdl_hvf, ncdk_cfb, ncdl_cfb, ncdk_cff, ncdl_cff, ncdk_cac, ncdl_cac, ncdk_opf, ncdl_opf, ncdk_bpf, ncdl_bpf, ncdl_dsf, ncdk_psf, ncdl_psf, ncdl_rsf) are summarised by stid to create variables indicating how many records each stid has in the study (if any). These summary variables are then merged into the main NCD dataset using stid.	30575	109
Lab results For Karonga basic information on all specimens taken, including date of collection, type of specimen etc., are held on ser_specimen. Results of the test carried out for NCD are held in the tables ser_glucose, ser_lipids, ser_fbc, ser_hba1c, ser_electrolytes, these also hold results from other studies so are (individually) merged to ser_specimen using labno (stid is held on ser_specimen). The glucose results are reshaped into separate variables for fasted, non-fasted and glucose tolerance test results. In Lilongwe the same process is undertaken (the tables have the prefix 'lab' rather than 'ser'), and Karonga and Lilongwe data are appended together, before merging into the main NCD dataset using stid. HIV/ART data In Karonga, only people who had not be tested recently were offered an HIV test, so the HIV and ART statuses are calculated using many other sources of data (actual HIV tests, self-reported data and data from clinics) which is summarised in the combined dataset hivart_kps_known_pop as a series of dates (first negative test, first positive test, first ART start etc.). These date of each person's NCD interview is merged into this dataset using ident, and their HIV & ART status at the time of the interview calculated. For Lilongwe, lab_rtr (rapid test results) is merged to lab_specimen using specno, and gp_rtf (questionnaire data regarding HIV/ART status) merged in using stid. HIV and ART status are calculated using self-reported and test data. The Karonga and Lilongwe data are appended together and merged into the main NCD dataset using stid.		

Data file: ncd_combined_data_all**Main questionnaire data**

For Karonga data ncdk_personal, ncdk_pershh and ncdk_persexam are merged on stid to ncdk_fieldlog, which provides the link to the ident, date of birth is merged in from gen_identity using ident. If a person appears in more than one household their first interview is kept. Marital status was not asked in Karonga so the nearest marital status report from css_seird1_8 or css_sei is merged into the NCD dataset using ident. The number of adults and children living in the house was also not asked in Karonga, so these are calculated using crs_memball by identifying people with an residency episode in the house which includes the NCD data, calculating their age (using the date of birth from gen_identity) and counting the people in different age groups: these summary variables are then merged into the NCD data on the house variable. For Lilongwe data ncdl_identity, ncdl_personal, ncdl_pershh and ncdl_persexam are merged on stid to ncdl_fieldlog, and ncdl_hhf is merge in on lhhno. If a person appears in more than one household their first interview is kept. The Karonga and Lilongwe data are then appended together.

NCD substudies

The sub-study tables (ncdk_hvf, ncdl_hvf, ncdk_cfb, ncdl_cfb, ncdk_cff, ncdl_cff, ncdk_cac, ncdl_cac, ncdk_opf, ncdl_opf, ncdk_bpf, ncdl_bpf, ncdl_dsf, ncdk_psf, ncdl_psf, ncdl_rsf) are summarised by stid to create variables indicating how many records each stid has in the study (if any). These summary variables are then merged into the main NCD dataset using stid.

Lab results

For Karonga basic information on all specimens taken, including date of collection, type of specimen etc., are held on ser_specimen. Results of the test carried out for NCD are held in the tables ser_glucose, ser_lipids, ser_fbc, ser_hba1c, ser_electrolytes, these also hold results from other studies so are (individually) merged to ser_specimen using labno (stid is held on ser_specimen). The glucose results are reshaped into separate variables for fasted, non-fasted and glucose tolerance test results. In Lilongwe the same process is undertaken (the tables have the prefix 'lab' rather than 'ser'), and Karonga and Lilongwe data are appended together, before merging into the main NCD dataset using stid.

HIV/ART data

In Karonga, only people who had not be tested recently were offered an HIV test, so the HIV and ART statuses are calculated using many other sources of data (actual HIV tests, self-reported data and data from clinics) which is summarised in the combined dataset hivart_kps_known_pop as a series of dates (first negative test, first positive test, first ART start etc.). These date of each person's NCD interview is merged into this dataset using ident, and their HIV & ART status at the time of the interview calculated. For Lilongwe, lab_rtr (rapid test results) is merged to lab_specimen using specno, and gp_rtf1 (questionnaire data regarding HIV/ART status) merged in using stid. HIV and ART status are calculated using self-reported and test data. The Karonga and Lilongwe data are appended together and merged into the main NCD dataset using stid.

Cases: 30575

Variables: 109

Variables

ID	Name	Label	Question
V5490	version	Form version number	Version
V5491	site	site of data collection (D)	
V5492	comdate	Completion date	Date form completed
V5493	stid	Study ID	study identifier
V5494	house	house identifier (D)	
V5495	age	Age in years (D)	
V5496	sex	sex	sex
V5497	numad	Number of adults living in the houseshold (D)	
V5498	chone	Number of children aged under 1 year in household (D)	

ID	Name	Label	Question
V5499	chofr	Number of children aged 1-4 years in household (D)	
V5500	chfsv	Number of children aged 5-17 years in household (D)	
V5501	cmarital	Current marital status (D)	What is your current marital status?
V5502	nospouse	No of spouse (s) (D)	If 2, how many spouses do you have now?
V5503	school	Education level (broad categories) (D)	
V5504	occupation	Type of work (broad categories) (D)	
V5505	moeduc	Highest level of education mother	What was the highest education attained by your mother?
V5506	foeduc	Highest level of education father	What was the highest education attained by your father?
V5507	smoker	summary variable of number of cigarettes smoked (D)	
V5508	indsmoke	Indoor Fire	Has an indoor fire with wood or crop residue or dun been used in your home as a primary means of cooking for more than 6 months in your life?
V5509	yrinsmok	Years used wood etc to cook	If yes, how many years has wood or crop residue or dung been used for cooking in your home?
V5510	hrinsmok	Hours per day took wood last 6 months	On average for how many hours a day have you personally spent cooking using wood or crop residues in the last 6 months?
V5511	curinsk	Wood etc still used for cooking	Is wood or crop residue or dung still used for cooking in your home?
V5512	vented	Stove vented to outside	Is your stove or fire vented to the outside (e.g. by a chimney)?
V5513	hosmoke	Smoker in household	Is there someone in your household who smokes cigarettes or other tobacco inside the house?
V5514	alcoft	Summary variable of alcohol usage (D)	
V5515	numbdrinkday	total days drank (D)	
V5516	drinker	summary variable of number of units drank (D)	
V5517	prmeal	How often home cooked food	On average, how often in a week do you eat food that was cooked at home?
V5518	boilgrp	Estimate of amount of oil taken per day (grouped) (D)	
V5519	nbutmag	How often use butter-marg	How often do you use consume butter or margarine?
V5520	saltgrp	Estimate of amount of salt taken per day (grouped) (D)	
V5521	extsalt	Use extra salt	Do you add extra salt to your plate?
V5522	tepsugar	No.teaspoons of sugar per cup	On average, how many teaspoons of sugar do you use in each cup of tea or coffee?
V5523	teacoffe	No.cups tea coffee per day	How many cups of tea or coffee do you drink each day?
V5524	sweetdk	No. sweet drinks	In a week, how many sweet drinks do you consume? (e.g, Fanta/Coke, Mahewu, Sobo etc)
V5525	outfood	How often food prepared away	On average, how often do you eat food prepared away from home each week?
V5526	pacat	physical activity rating (D)	

ID	Name	Label	Question
V5527	pawho	whether met the WHO recommendation for physical activity (D)	
V5528	evpreg	Ever pregnant	Have you ever been pregnant?
V5529	agepreg	Age pregnant	If yes, what age were you when you first became pregnant?
V5530	nopreg	Number times pregnant	How many pregnancies have you had?
V5531	nochild	Number live births	How many live births have you had?
V5532	curpreg	Currently pregnant	Are you pregnant at the moment?
V5533	tripreg	Which trimester	If yes, which trimester are you in?
V5534	electric_mode	Whether household has electricity (household mode) (D)	
V5535	parlamp_mode	Whether household owns a paraffin lamp (household mode) (D)	
V5536	telv_mode	Whether household owns a tv (household mode) (D)	
V5537	mopho_mode	Whether household owns a mobile phone (household mode) (D)	
V5538	landpho_mode	Whether household owns a land phone (household mode) (D)	
V5539	bedmt_mode	Whether household owns a bed with mattress (household mode) (D)	
V5540	sofa_mode	Whether household owns a sofa (household mode) (D)	
V5541	refrig_mode	Whether household owns a fridge (household mode) (D)	
V5542	tabchar_mode	Whether household owns a tabchar (household mode) (D)	
V5543	egcook_mode	Whether household owns an electric or gas cooker (household mode) (D)	
V5544	watpipe_fmode	Whether household has water piped to house (female only mode) (D)	
V5545	motcyc_mode	Whether household owns a motorcycle (household mode) (D)	
V5546	car_mode	Whether household owns a car (household mode) (D)	
V5547	bicyc_mode	Whether household owns a bicycle (household mode) (D)	
V5548	radio_mode	Whether household owns a radio (household mode) (D)	
V5549	cow_mode	Whether household owns a cow (household mode) (D)	
V5550	oxcart_mode	Whether household owns an oxcart (household mode) (D)	
V5551	hhwate_fmode	Household water source (female only mode) (D)	
V5552	hhposssscore_mode	Karonga & Lilongwe: summary possession score using the mode values (D)	
V5553	hhposssscorek_mode	Karonga only: summary possession score using the mode values (D)	
V5554	hhposssscorel_mode	Lilongwe only: summary possession score using the mode values (D)	
V5555	advlwt	Advice doctor	Have you received advice from your doctor or other health professional to lose weight?

ID	Name	Label	Question
V5556	advsom	Advice doctor stop smoking	Have you received advice from your doctor or other health professional to stop smoking?
V5557	advexr	Advice doctor more exercise	Have you received advice from your doctor or other health professional to do more exercise?
V5558	advbp	Blood pressure taken no months	How long ago did you last have your blood pressure measured?
V5559	diabp	Diagnosed high blood pressure	Have you ever been diagnosed with high blood pressure by a doctor or other health professional?
V5560	agedibp	Age diagnosed high blood pressure	If yes, what age were you when you first diagnosed?
V5561	remdbp	Medication for high blood pressure	Are you on regular medication for high blood pressure?
V5562	blsug	Blood sugar taken no months	When was the last time you had your blood sugar checked?
V5563	diadiab	Diagnosed diabetes	Have you been diagnosed with diabetes by a doctor or other health professional?
V5564	agediab	Age diagnosed diabetes	If yes, what age were you when you first diagnosed?
V5565	remddiab	Medication for diabetes	Are you on regular medication for diabetes?
V5566	chole	Cholesterol taken no months	When was the last time you had your cholesterol checked?
V5567	diachole	Diagnosed cholesterol	Have you ever been diagnosed with raised cholesterol by a doctor or other health professional?
V5568	agechole	Age diagnosed cholesterol	If yes, what age were you when you first diagnosed?
V5569	remdcho	Medication for cholesterol	Are you on regular medication for raised cholesterol?
V5570	diastro	Diagnosed stroke	Have you ever been diagnosed with stroke by a doctor or other health professional?
V5571	agestro	Age diagnosed stroke	If yes, what age were you when you first diagnosed?
V5572	diaheart	Diagnosed heart disease	Have you ever been diagnosed with heart disease by a doctor or other health professional?
V5573	ageht	Age diagnosed heart disease	If yes, what age were you when you first diagnosed?
V5574	typehtd	Type heart disease	Type of heart disease you diagnosed?
V5575	wheze	Wheezing in last year	Have you had wheezing or whistling in your chest at any time in the past year?
V5576	spwheze	Wheezing in last year make short of breath	In the last year have you ever had an attack of wheezing or whistling that has made you feel short of breath?
V5577	asthma	Diagnosed asthma	Have you ever been diagnosed with asthma, asthmatic bronchitis or allergic bronchitis by a doctor or other health professional?
V5578	ageathma	Age diagnosed asthma	If yes, what age were you when you first diagnosed?
V5579	asthmed	Medication for asthma	Are you on regular medication for asthma?

ID	Name	Label	Question
V5580	diatb	Diagnosed TB	Have you ever been diagnosed with tuberculosis by a doctor or other health professional?
V5581	agetb	Age diagnosed TB	If yes, what age were you when you first diagnosed?
V5582	systolic	Systolic blood pressure (average) (D)	
V5583	diastolic	Diastolic blood pressure (average) (D)	
V5584	ht	Hypertensive level (4 categories) (D)	
V5585	hypertension	Hypertensive level (2 categories) (D)	
V5586	weight	Weight (average) (D)	Weight (Kgs)
V5587	height	Height (average) (D)	
V5588	BMI	body mass index (excluding pregnant women) (D)	
V5589	BMIgroup	categorised BMI (D)	
V5590	waist	Waist circumference (average) (D)	
V5591	hip	Hip circumference (average) (D)	
V5592	muac	Mid-upper arm circumference (average) (D)	
V5593	glucunits_fast	result of fasted glucose test (D)	
V5594	glucunits_NONfast	result of non-fasted glucose test (D)	
V5595	diabetes	binary diabetes variable using glucose level and self-report (D)	
V5596	fastgluc	categorised variable of impaired glucose (D)	
V5597	hgb	Haemoglobin	
V5598	hba1_units	Percentage	

Total: 109

VERSION: Form version number**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

Questions and instructions

LITERAL QUESTION
 Version

Imputation and derivation

DERIVATION
 variable: version (table[s]: ncdk_personal, ncdl_personal)

SITE: site of data collection (D)**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Karonga	13903	45.5%
2	Lilongwe	16672	54.5%

Imputation and derivation

DERIVATION
 Site of data collection derived from whether data came from ncdk (Karonga) or ncdl (Lilongwe) tables.

COMDATE: Completion date**Data file:** ncd_combined_data_all**Overview**

Valid: 30575
 Type: Discrete Width: 10 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Date form completed

Imputation and derivation

DERIVATION

variable: comdate (table[s]: ncdk_personal, ncdl_personal)

STID: Study ID

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0
 Type: Discrete Width: 31 Range: - Format: character

Questions and instructions

LITERAL QUESTION

study identifier

Imputation and derivation

DERIVATION

variable: stid (table[s]: ncdk_fieldlog, ncdl_fieldlog, and all other linked NCD tables)

HOUSE: house identifier (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0
 Type: Discrete Width: 7 Range: - Format: character

Imputation and derivation

DERIVATION

variable: repgp [reporting group] (table[s]: ncdk_fieldlog)

variable: cluster [cluster] (table[s]: ncdk_fieldlog)

variable: hhlistno [household number] (table[s]: ncdk_fieldlog)

variable: lhhno [house number] (table[s]: ncdl_fieldlog)

For Karonga, house is reporting group, cluster and household number concatenated together. For Lilongwe it is just one variable, lhhno.

egen house=concat(repgp cluster hhlistno)

AGE: Age in years (D)**Data file:** ncd_combined_data_all**Overview**

Valid: 30574 Invalid: 1 Mean: 34.946
 Type: Continuous Decimal: 0 Width: 3 Range: 17 - 105 Format: Numeric

Imputation and derivation

DERIVATION

variable: comdate [completion date] (table[s]: ncdk_personal, ncdl_personal)
 variable: dob [date of birth] (table[s]: derived variable)
 gen age=(comdate-dob)/365.25

SEX: sex**Data file:** ncd_combined_data_all**Overview**

Valid: 30574 Invalid: 1
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

sex

CATEGORIES

Value	Category	Cases	
1	Male	11668	38.2%
2	Female	18906	61.8%
9	Missing	0	
Sysmiss		1	

Imputation and derivation

DERIVATION

variable: sex (table[s]: gen_identity, ncdl_identity)

NUMAD: Number of adults living in the household (D)**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 11 Format: Numeric

Imputation and derivation

DERIVATION

variable: ident [person id] (table[s]: crs_memball)
 variable: startdate [start date of episode] (table[s]: crs_memball)
 variable: stopdate [end date of episode] (table[s]: crs_memball)
 variable: crshse [household id] (table[s]: crs_memball)
 variable: comdate [completion date] (table[s]: ncdk_personal)
 variable: birthest [decade estimate of birth] (table[s]: gen_identity)
 variable: birthdd [day of birth] (table[s]: gen_identity)
 variable: birthmm [month of birth] (table[s]: gen_identity)
 variable: birthyear [year of birth] (table[s]: gen_identity)
 variable: numad [number of adults in the household] (table[s]: ncdl_hhf)

For Karonga, the number of adults living in the house at the time of the NCD interview (comdate) is calculated from the DSS episodes data (crs_memball). For Lilongwe, this question was asked directly (numad on ncdl_hhf).

CHONE: Number of children aged under 1 year in household (D)

Data file: ncd_combined_data_all

Overview

Valid: 30158 Invalid: 417
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

Imputation and derivation

DERIVATION

variable: ident [person id] (table[s]: crs_memball)
 variable: startdate [start date of episode] (table[s]: crs_memball)
 variable: stopdate [end date of episode] (table[s]: crs_memball)
 variable: crshse [household id] (table[s]: crs_memball)
 variable: comdate [completion date] (table[s]: ncdk_personal)
 variable: birthest [decade estimate of birth] (table[s]: gen_identity)
 variable: birthdd [day of birth] (table[s]: gen_identity)
 variable: birthmm [month of birth] (table[s]: gen_identity)
 variable: birthyear [year of birth] (table[s]: gen_identity)
 variable: chone [number of children under 1 in the household] (table[s]: ncdl_hhf)

For Karonga, the number of children living in the house at the time of the NCD interview (comdate) is calculated from the DSS episodes data (crs_memball). For Lilongwe, this question was asked directly (chone on ncdl_hhf).

CHOFR: Number of children aged 1-4 years in household (D)

Data file: ncd_combined_data_all

Overview

Valid: 30158 Invalid: 417
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Imputation and derivation

DERIVATION

variable: ident [person id] (table[s]: crs_memball)

variable: startdate [start date of episode] (table[s]: crs_memball)
 variable: stopdate [end date of episode] (table[s]: crs_memball)
 variable: crshse [household id] (table[s]: crs_memball)
 variable: comdate [completion date] (table[s]: ncdk_personal)
 variable: birthest [decade estimate of birth] (table[s]: gen_identity)
 variable: birthdd [day of birth] (table[s]: gen_identity)
 variable: birthmm [month of birth] (table[s]: gen_identity)
 variable: birthyear [year of birth] (table[s]: gen_identity)
 variable: chofr [number of children aged 1-4 in the household] (table[s]: ncdl_hhf)
 For Karonga, the number of children living in the house at the time of the NCD interview (comdate) is calculated from the DSS episodes data (crs_memball). For Lilongwe, this question was asked directly (chofr on ncdl_hhf).

CHFSV: Number of children aged 5-17 years in household (D)

Data file: ncd_combined_data_all

Overview

Valid: 29118 Invalid: 1457
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 12 Format: Numeric

Imputation and derivation

DERIVATION

variable: ident [person id] (table[s]: crs_memball)
 variable: startdate [start date of episode] (table[s]: crs_memball)
 variable: stopdate [end date of episode] (table[s]: crs_memball)
 variable: crshse [household id] (table[s]: crs_memball)
 variable: comdate [completion date] (table[s]: ncdk_personal)
 variable: birthest [decade estimate of birth] (table[s]: gen_identity)
 variable: birthdd [day of birth] (table[s]: gen_identity)
 variable: birthmm [month of birth] (table[s]: gen_identity)
 variable: birthyear [year of birth] (table[s]: gen_identity)
 variable: chofsv [number of children aged 5-17 in the household] (table[s]: ncdl_hhf)
 For Karonga, the number of children living in the house at the time of the NCD interview (comdate) is calculated from the DSS episodes data (crs_memball). For Lilongwe, this question was asked directly (chfsv on ncdl_hhf).

CMARITAL: Current marital status (D)

Data file: ncd_combined_data_all

Overview

Valid: 30553 Invalid: 22
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

What is your current marital status?

CATEGORIES

Value	Category	Cases	
0	Never married	7001	22.9%

1	Married	19439	63.6%
2	Divorced/Separated	2194	7.2%
3	Widowed	1919	6.3%
8	Unknown	0	0%
9	Missing	0	
Sysmiss		22	

Imputation and derivation

DERIVATION

variable: marital [marital status] (table[s]: css_seird1_8, css_sei)

variable: intdate [interview date] (table[s]: css_seird1_8, css_sei)

variable: comdate [completion date] (table[s]: ncdk_personal)

variable: cmarital (table[s]: ncdl_personal)

For Karonga, the latest marital status report from the SEI (css_seird1_8 or css_sei) is taken, for Lilongwe this question was asked directly (ncdl_personal).

NOSPOUSE: No of spouse (s) (D)

Data file: ncd_combined_data_all

Overview

Valid: 19439 Invalid: 11136

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 5 Format: Numeric

Questions and instructions

LITERAL QUESTION

If 2, how many spouses do you have now?

Imputation and derivation

DERIVATION

variable: spousenum [number of spouses] (table[s]: css_seird1_8, css_sei)

variable: intdate [interview date] (table[s]: css_seird1_8, css_sei)

variable: comdate [completion date] (table[s]: ncdk_personal)

variable: nospouse [number of spouses] (table[s]: ncdl_personal)

For Karonga, the latest number of spouses report from the SEI (css_seird1_8 or css_sei) is taken, for Lilongwe this question was asked directly (ncdl_personal).

SCHOOL: Education level (broad categories) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No formal	1179	3.9%
1	Standard 1-5	3335	10.9%
2	Standard 6-8	9822	32.1%
3	Secondary	13232	43.3%
4	Tertiary	3007	9.8%

Imputation and derivation

DERIVATION

variable: educat [highest level of education] (table[s]: ncdk_personal, ncdl_personal)

The original education categories are collapsed further into broader categories.

recode educat 1/2=0 3/4=1 5=2 6=3 7=4, gen(school)

OCCUPATION: Type of work (broad categories) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	Not working	6410	21%
1	Housework	5822	19%
2	Farming/fishing	8745	28.6%
3	Self-employed	5016	16.4%
4	Employed	4582	15%

Imputation and derivation

DERIVATION

variable: work [work status] (table[s]: ncdk_personal, ncdl_personal)

The original work categories are collapsed further into broader categories.

recode work 1/2=4 3=2 4=3 6=1 5=0 7/10=0, gen(occupation)

MOEDUC: Highest level of education mother**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

LITERAL QUESTION

What was the highest education attained by your mother?

CATEGORIES

Value	Category	Cases	
0	Illiterate	4567	14.9%
1	Literate and no formal education	392	1.3%
2	Up to primary school	15642	51.2%
3	Secondary school	4675	15.3%
4	Graduate or higher	1172	3.8%
8	Don't know	4127	13.5%

Imputation and derivation

DERIVATION

variable: moeduc (table[s]: ncdk_personal, ncdl_personal)

FOEDUC: Highest level of education father**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

LITERAL QUESTION

What was the highest education attained by your father?

CATEGORIES

Value	Category	Cases	
0	Illiterate	2481	8.1%
1	Literate and no formal education	293	1%
2	Up to primary school	12183	39.8%
3	Secondary school	8480	27.7%

4	Graduate or higher	2867	9.4%
8	Don't know	4271	14%

Imputation and derivation

DERIVATION

variable: foeduc (table[s]: ncdk_personal, ncdl_personal)

SMOKER: summary variable of number of cigarettes smoked (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	Never	28480	93.1%
1	Former	757	2.5%
2	<6 cig/week	177	0.6%
3	6+ cig/week	1161	3.8%

Imputation and derivation

DERIVATION

variable: resmoke [ever smoked] (table[s]: ncdk_personal, ncdl_personal)

variable: cigweek [av. cigs per week] (table[s]: derived variable)

Smoking status (resmoke) and estimated number of cigarettes smoked per week for current smokers (cigweek) are combined to generate a summary variable.

gen smoker=0 if resmoke==1

replace smoker=2 if cigweek<6 & cigweek~=. & resmoke==3

replace smoker=3 if cigweek>=6 & cigweek~=. & resmoke==3

replace smoker=1 if resmoke==2

INDSMOKE: Indoor Fire

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

Questions and instructions

LITERAL QUESTION

Has an indoor fire with wood or crop residue or dun been used in your home as a primary means of cooking for more than 6 months in your life?

CATEGORIES

Value	Category	Cases	
0	No	1246	4.1%
1	Yes, inside the house	1794	5.9%
2	Yes, but in a separate kitchen area	27535	90.1%

Imputation and derivation

DERIVATION

variable: indsmoke (table[s]: ncdk_personal, ncdl_personal)

YRINSMOK: Years used wood etc to cook

Data file: ncd_combined_data_all

Overview

Valid: 29329 Invalid: 1246

Type: Discrete Decimal: 0 Width: 3 Range: 0 - 999 Format: Numeric

Questions and instructions

LITERAL QUESTION

If yes, how many years has wood or crop residue or dung been used for cooking in your home?

CATEGORIES

Value	Category
999	Missing

Imputation and derivation

DERIVATION

variable: yrinsmok (table[s]: ncdk_personal, ncdl_personal)

HRINSMOK: Hours per day took wood last 6 months

Data file: ncd_combined_data_all

Overview

Valid: 29329 Invalid: 1246

Type: Discrete Decimal: 0 Width: 2 Range: 0 - 99 Format: Numeric

Questions and instructions

LITERAL QUESTION

On average for how many hours a day have you personally spent cooking using wood or crop residues in the last 6 months?

CATEGORIES

Value	Category
99	Missing

Imputation and derivation

DERIVATION

variable: hrinsmok (table[s]: ncdk_personal, ncdl_personal)

CURINSK: Wood etc still used for cooking

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0
Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

Is wood or crop residue or dung still used for cooking in your home?

CATEGORIES

Value	Category	Cases	
0	No	1701	5.6%
1	Yes	28874	94.4%

Imputation and derivation

DERIVATION

variable: curinsk (table[s]: ncdk_personal, ncdl_personal)

VENTED: Stove vented to outside

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0
Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

Is your stove or fire vented to the outside (e.g. by a chimney)?

CATEGORIES

Value	Category	Cases	
0	No	2777	9.1%
1	Yes	27798	90.9%

Imputation and derivation

DERIVATION

variable: vented (table[s]: ncdk_personal, ncdl_personal)

HOSMOKE: Smoker in household

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

Is there someone in your household who smokes cigarettes or other tobacco inside the house?

CATEGORIES

Value	Category	Cases	
0	No	27111	88.7%
1	Yes	3464	11.3%

Imputation and derivation

DERIVATION

variable: hosmoke (table[s]: ncdk_personal, ncdl_personal)

ALCOFT: Summary variable of alcohol usage (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	Never	24991	81.7%
1	Rarely	3364	11%
2	Often	2220	7.3%

Imputation and derivation

DERIVATION

variable: alcohol [alcohol in last year] (table[s]: ncdk_personal, ncdl_personal)

variable: nalcohol [alcohol frequency] (table[s]: ncdk_personal, ncdl_personal)

Drunk alcohol in last 12 months (alcohol) and how often drank alcohol (nalcohol) are combined into a summary variable.

gen alcoft=0 if alcohol==2

replace alcoft=1 if alcohol==1 & nalcohol>3

replace alcoft=2 if alcohol==1 & nalcohol<=3

NUMBDRINKDAY: total days drank (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 7 Format: Numeric

Imputation and derivation

DERIVATION

variable: sachetu [sachet days last 7 days] (table[s]: ncdk_personal, ncdl_personal)

variable: chibukuu [chibuku days last 7 days] (table[s]: ncdk_personal, ncdl_personal)

variable: homebru [homebrew days last 7 days] (table[s]: ncdk_personal, ncdl_personal)

variable: wineu [wine days last 7 days] (table[s]: ncdk_personal, ncdl_personal)

variable: carlsbu [carlsburg days last 7 days] (table[s]: ncdk_personal, ncdl_personal)

variable: kucheku [kuche days last 7 days] (table[s]: ncdk_personal, ncdl_personal)

variable: poweru [power days last 7 days] (table[s]: ncdk_personal, ncdl_personal)

variable: brandyu [brandy days last 7 days] (table[s]: ncdk_personal, ncdl_personal)

variable: malawigu [gin days last 7 days] (table[s]: ncdk_personal, ncdl_personal)

Total number of days when alcohol consumed estimated from the days reported to drink the various drinks.

gen numbdrinkday=max(sachetu, chibukuu, homebru, wineu, carlsbu, kucheku, poweru, brandyu, malawigu)

Others

NOTES

NB. suffixes u & d were accidentally switched and have been left this way so variables with suffix u used to create the total days.

DRINKER: summary variable of number of units drank (D)**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	Never	24991	81.7%
1	<8 drinks/week	4188	13.7%
2	8-22 drinks/week	1024	3.3%
3	22+ drinks/week	372	1.2%

Imputation and derivation

DERIVATION

variable: numbdrink [number of units drank in last 7 days] (table[s]: derived variable)

variable: alcohol [alcohol in last year] (table[s]: ncdk_personal, ncdl_personal)

Number of drinks consumed in a week summarised into a categorical variable.

gen drinker=0 if numbdrink==0

replace drinker=1 if numbdrink>0 & numbdrink<8

replace drinker=1 if numbdrink==0 & alcohol==1

replace drinker=2 if numbdrink>=8 & numbdrink<22

replace drinker=3 if numbdrink>21

PRMEAL: How often home cooked food**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 8 Format: Numeric

Questions and instructions

LITERAL QUESTION

On average, how often in a week do you eat food that was cooked at home?

CATEGORIES

Value	Category	Cases	
1	Daily/most days	29628	96.9%
2	3-4 days per week	757	2.5%
3	1-2 days per week	133	0.4%
4	Very rarely or never	57	0.2%

8	Don't know	0	0%
---	------------	---	----

Imputation and derivation

DERIVATION

variable: prmeal (table[s]: ncdk_personal, ncdl_personal)

BOILGRP: Estimate of amount of oil taken per day (grouped) (D)

Data file: ncd_combined_data_all

Overview

Valid: 29118 Invalid: 1457

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 10 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	<5ml	1342	4.6%
2	5-15ml	9651	33.1%
3	15-30ml	13097	45%
4	30-45ml	3725	12.8%
5	45-60ml	773	2.7%
6	60-75ml	316	1.1%
7	75-100ml	155	0.5%
8	100-125ml	25	0.1%
9	125-250ml	30	0.1%
10	250ml+	4	0%
Sysmiss		1457	

Imputation and derivation

DERIVATION

variable: boilperday [oil taken per day estimate] (table[s]: derived variable)

recode boilperday (0/4.9=1 "<5ml") (5/14.9=2 "5-15ml") (15/29.9=3 "15-30ml") (30/44.9=4 "30-45ml") (45/59.9=5 "45-60ml") (60/74.9=6 "60-75ml") (75/99.9=7 "75-100ml") (100/124.9=8 "100-125ml") (125/249.5=9 "125-250ml") (250/max=10 "250ml+"), gen(boilgrp)

NBUTMAG: How often use butter-marg

Data file: ncd_combined_data_all

Overview

Valid: 30168 Invalid: 407
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

How often do you use consume butter or margarine?

CATEGORIES

Value	Category	Cases	
1	Daily/most days	1782	5.9%
2	3-4 days per week	1283	4.3%
3	1-2 days per week	2197	7.3%
4	Very rarely or never	24906	82.6%
8	Don't know	0	0%
9	Missing	407	

Imputation and derivation

DERIVATION

variable: nbutmag (table[s]: ncdk_personal, ncdl_personal)

SALTGRP: Estimate of amount of salt taken per day (grouped) (D)

Data file: ncd_combined_data_all

Overview

Valid: 29118 Invalid: 1457
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 10 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	<1g	851	2.9%
2	1-3g	2548	8.8%
3	3-6g	11052	38%
4	6-9g	7032	24.2%
5	9-12g	3588	12.3%
6	12-15g	1839	6.3%
7	15-20g	1138	3.9%
8	20-25g	526	1.8%

9	25-50g	489	1.7%
10	50g+	55	0.2%
Sysmiss		1457	

Imputation and derivation

DERIVATION

variable: saltperday [salt per day estimate] (table[s]: derived variable)

recode saltperday (0/0.9=1 "<1g") (1/2.9=2 "1-3g") (3/5.9=3 "3-6g") (6/8.9=4 "6-9g") (9/11.9=5 "9-12g") (12/14.9=6 "12-15g") (15/19.9=7 "15-20g") (20/24.9=8 "20-25g") (25/49.5=9 "25-50g") (50/max=10 "50g+"), gen(saltgrp)

EXTSALT: Use extra salt

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

Do you add extra salt to your plate?

CATEGORIES

Value	Category	Cases	
0	No	9222	30.2%
1	Yes	21353	69.8%

Imputation and derivation

DERIVATION

variable: extsalt (table[s]: ncdk_personal, ncdl_personal)

TEPSUGAR: No.teaspoons of sugar per cup

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 0 - 99 Format: Numeric

Questions and instructions

LITERAL QUESTION

On average, how many teaspoons of sugar do you use in each cup of tea or coffee?

CATEGORIES

Value	Category
99	Missing

Imputation and derivation

DERIVATION

variable: tepsugar (table[s]: ncdk_personal, ncdl_personal)

TEACOFFE: No.cups tea coffee per day

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 99 Format: Numeric

Questions and instructions

LITERAL QUESTION

How many cups of tea or coffee do you drink each day?

CATEGORIES

Value	Category
99	Missing

Imputation and derivation

DERIVATION

variable: teacoffe (table[s]: ncdk_personal, ncdl_personal)

SWEETDK: No. sweet drinks

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 99 Format: Numeric

Questions and instructions

LITERAL QUESTION

In a week, how many sweet drinks do you consume? (e.g, Fanta/Coke, Mahewu, Sobo etc)

CATEGORIES

Value	Category
-------	----------

99

Missing

Imputation and derivation

DERIVATION

variable: sweetdk (table[s]: ncdk_personal, ncdl_personal)

OUTFOOD: How often food prepared away

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

Questions and instructions

LITERAL QUESTION

On average, how often do you eat food prepared away from home each week?

CATEGORIES

Value	Category	Cases	
1	Daily/most days	796	2.6%
2	3-4 days per week	553	1.8%
3	1-2 days per week	1847	6%
4	Very rarely or never	27379	89.5%

Imputation and derivation

DERIVATION

variable: outfood (table[s]: ncdk_personal, ncdl_personal)

PACAT: physical activity rating (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	Low	711	2.3%

1	Moderate	1964	6.4%
2	High	27900	91.3%

Imputation and derivation

DERIVATION

variable: totwalkm [average minutes spent walking] (table[s]: derived variable)

variable: totwalkd [days spent walking] (table[s]: derived variable)

variable: totmodm [average minutes spent moderate activity] (table[s]: derived variable)

variable: totmodd [days spent moderate activity] (table[s]: derived variable)

variable: totvigam [average minutes spent vigorous activity] (table[s]: derived variable)

variable: totvigd [days spent vigorous activity] (table[s]: derived variable)

variable: totmet [total metabolic units] (table[s]: derived variable)

variable: farmfix [to identify farmers not asked some of the questions] (table[s]: derived variable)

variable: phjob [if have a job] (table[s]: ncdk_personal, ncdl_personal)

A physical activity categorical variable is created as medium (1) if at least 20 minutes of vigorous exercise on at least 3 days a week, at least 30 minutes of moderate exercise on at least 5 days a week, or at least 600 metabolic units expended on at least 5 days at week, high (2) if at least 1500 metabolic units expended through vigorous activity on at least 3 days a week or at least 3000 metabolic units expended through any activity every day of the week. If physical activity is less than the medium level it is low (0). A fix is applied to people living in farming household who said they did not have a job (as they were then not asked about physical activity at work) and they are shifted up one level (unless they were already at the highest level).

gen pacat=0

replace pacat=1 if (totvigd>=3 & totvigam>=20) | (totmodd+totwalkd>=5 & totmodm+totwalkm>=30) | (totvigd+totmodd+totwalkd>=5 & totmet>=600)

replace pacat=2 if (totvigd>=3 & totmet>=1500) | (totvigd+totmodd+totwalkd>=7 & totmet>=3000)

replace pacat=pacat+1 if farmfix==1 & pacat<2 & phjob==0

replace pacat=. if totmet==0 & pacat==0

PAWHO: whether met the WHO recommendation for physical activity (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	Not met WHO recom	711	2.3%
1	Met WHO recom	29864	97.7%

Imputation and derivation

DERIVATION

variable: pacat [physical activity rating] (table[s]: derived variable)

recode pacat 0=0 1/2=1, gen(pawho)

■ EVPREG: Ever pregnant**Data file:** ncd_combined_data_all**Overview**

Valid: 18885 Invalid: 11690

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

Have you ever been pregnant?

CATEGORIES

Value	Category	Cases	
0	No	2608	13.8%
1	Yes	16277	86.2%
Sysmiss		11690	

QUESTION POST TEXT

If No go to Q10.1

Imputation and derivation

DERIVATION

variable: evpreg (table[s]: ncdk_personal, ncdl_personal)

■ AGEPREG: Age pregnant**Data file:** ncd_combined_data_all**Overview**

Valid: 16277 Invalid: 14298

Type: Discrete Decimal: 0 Width: 3 Range: 12 - 999 Format: Numeric

Questions and instructions

QUESTION PRETEXT

999 if unknown

LITERAL QUESTION

If yes, what age were you when you first became pregnant?

CATEGORIES

Value	Category
999	Missing

Imputation and derivation

DERIVATION

variable: agepreg (table[s]: ncdk_personal, ncdl_personal)

NOPREG: Number times pregnant

Data file: ncd_combined_data_all

Overview

Valid: 16277 Invalid: 14298

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 15 Format: Numeric

Questions and instructions

LITERAL QUESTION

How many pregnancies have you had?

Imputation and derivation

DERIVATION

variable: nopreg (table[s]: ncdk_personal, ncdl_personal)

NOCHILD: Number live births

Data file: ncd_combined_data_all

Overview

Valid: 16277 Invalid: 14298

Type: Discrete Decimal: 0 Width: 2 Range: 0 - 15 Format: Numeric

Questions and instructions

LITERAL QUESTION

How many live births have you had?

Imputation and derivation

DERIVATION

variable: nochild (table[s]: ncdk_personal, ncdl_personal)

CURPREG: Currently pregnant

Data file: ncd_combined_data_all

Overview

Valid: 16277 Invalid: 14298

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

Are you pregnant at the moment?

CATEGORIES

Value	Category	Cases	
0	No	15208	93.4%
1	Yes	1069	6.6%
Sysmiss		14298	

Imputation and derivation

DERIVATION

variable: curpreg (table[s]: ncdk_personal, ncdl_personal)

TRIPREG: Which trimester

Data file: ncd_combined_data_all

Overview

Valid: 1069 Invalid: 29506

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

Questions and instructions

LITERAL QUESTION

If yes, which trimester are you in?

CATEGORIES

Value	Category	Cases	
1	1-3 months	262	24.5%
2	4-6 months	448	41.9%
3	7-9 months	359	33.6%
Sysmiss		29506	

Imputation and derivation

DERIVATION

variable: tripreg (table[s]: ncdk_personal, ncdl_personal)

ELECTRIC_MODE: Whether household has electricity (household mode) (D)**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	20019	65.5%
1	Yes	10556	34.5%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: electric (table[s]: ncdk_persh, ncdl_persh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

PARLAMP_MODE: Whether household owns a paraffin lamp (household mode) (D)**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	23617	77.2%
1	Yes	6958	22.8%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: parlamp (table[s]: ncdk_persh, ncdl_persh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

TELV_MODE: Whether household owns a tv (household mode) (D)**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	19073	62.4%
1	Yes	11502	37.6%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: telv (table[s]: ncdk_pershh, ncdl_pershh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

MOPHO_MODE: Whether household owns a mobile phone (household mode) (D)**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	6916	22.6%
1	Yes	23659	77.4%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: mopho (table[s]: ncdk_pershh, ncdl_pershh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

LANDPHO_MODE: Whether household owns a land phone (household mode) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	29008	94.9%
1	Yes	1567	5.1%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: landpho (table[s]: ncdk_pershh, ncdl_pershh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

BEDMT_MODE: Whether household owns a bed with mattress (household mode) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	3947	12.9%
1	Yes	26628	87.1%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: bedmt (table[s]: ncdk_pershh, ncdl_pershh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

SOFA_MODE: Whether household owns a sofa (household mode) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	15695	51.3%
1	Yes	14880	48.7%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: sofa (table[s]: ncdk_pershh, ncdl_pershh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

REFRIG_MODE: Whether household owns a fridge (household mode) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	22654	74.1%

1	Yes	7921	25.9%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: refri (table[s]: ncdk_pershh, ncdl_pershh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

TABCHAR_MODE: Whether household owns a tabchar (household mode) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	7954	26%
1	Yes	22621	74%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: tabchar (table[s]: ncdk_pershh, ncdl_pershh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

EGCOOK_MODE: Whether household owns an electric or gas cooker (household mode) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	22741	74.4%
1	Yes	7834	25.6%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: egcook (table[s]: ncdk_pershh, ncdl_pershh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

WATPIPE_FMODE: Whether household has water piped to house (female only mode) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	23269	76.1%
1	Yes	7306	23.9%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: watpipe (table[s]: ncdk_pershh, ncdl_pershh)

variable: sex (table[s]: gen_identity, ncdl_identity)

variable: house (table[s]: derived variable)

As this was asked to each person the mode female response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

MOTCYC_MODE: Whether household owns a motorcycle (household mode) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	30195	98.8%
1	Yes	380	1.2%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: motcyc (table[s]: ncdk_pershh, ncdl_pershh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

CAR_MODE: Whether household owns a car (household mode) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	27211	89%
1	Yes	3364	11%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: car (table[s]: ncdk_pershh, ncdl_pershh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

BICYC_MODE: Whether household owns a bicycle (household mode) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	17728	58%
1	Yes	12847	42%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: bicyc (table[s]: ncdk_persh, ncdl_persh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

RADIO_MODE: Whether household owns a radio (household mode) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	8628	28.2%
1	Yes	21947	71.8%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: radio (table[s]: ncdk_persh, ncdl_persh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

COW_MODE: Whether household owns a cow (household mode) (D)**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	26635	87.1%
1	Yes	3940	12.9%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: cow (table[s]: ncdk_pershh, ncdl_pershh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

OXCART_MODE: Whether household owns an oxcart (household mode) (D)**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	29457	96.3%
1	Yes	1118	3.7%
8	Unknown	0	0%

Imputation and derivation

DERIVATION

variable: oxcart (table[s]: ncdk_pershh, ncdl_pershh)

variable: house (table[s]: derived variable)

As this was asked to each person the mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

HHWATE_FMODE: Household water source (female only mode) (D)**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Tap to house	13083	42.8%
2	Shared communal tap	6652	21.8%
3	Bore hole	6210	20.3%
4	Covered well	3844	12.6%
5	Open well	346	1.1%
6	Lake/river	414	1.4%
7	Other	26	0.1%

Imputation and derivation

DERIVATION

variable: hhwate (table[s]: ncdk_pershh, ncdl_pershh)

variable: sex (table[s]: gen_identity, ncdl_identity)

variable: house (table[s]: derived variable)

As this was asked to each person the female mode response within the household is assigned to everyone in the house - if there is no most common response then the response of the oldest person is taken.

HHPOSSSCORE_MODE: Karonga & Lilongwe: summary possession score using the mode values (D)**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 10 Format: Numeric

Imputation and derivation

DERIVATION

variable: parlamp_mode (table[s]: derived variable)

variable: radio_mode (table[s]: derived variable)

variable: mopho_mode (table[s]: derived variable)

variable: landpho_mode (table[s]: derived variable)

variable: tabchar_mode (table[s]: derived variable)

variable: bedmt_mode (table[s]: derived variable)
 variable: bicyc_mode (table[s]: derived variable)
 variable: telv_mode (table[s]: derived variable)
 variable: egcook_mode (table[s]: derived variable)
 variable: sofa_mode (table[s]: derived variable)
 variable: oxcart_mode (table[s]: derived variable)
 variable: refrig_mode (table[s]: derived variable)
 variable: motcyc_mode (table[s]: derived variable)
 variable: car_mode (table[s]: derived variable)
 variable: cow_mode (table[s]: derived variable)

Total possession value is calculated using the below kwacha values for each item the household possesses (using the mode household responses), then converted to a score out of 10, relative to other asset values in the dataset (Karonga and Lilongwe).

paraffin lamp: 2000K

radio: 8000K

mobile phone: 10,000

land phone: 15,000K

table and chair: 25,000K (table) + 6500K (chair)

bed with mattress: 31,000K

bicycle: 35,000K

TV: 85,000K

electric or gas cooker: 30,000K

sofa: 125,000K

cow: 150,000K

oxcart: 200,000K

fridge: 200,000K

motorcycle: 350,000K

car: 2,000,000K

HHPOSSSCOREK_MODE: Karonga only: summary possession score using the mode values (D)

Data file: ncd_combined_data_all

Overview

Valid: 13903 Invalid: 16672

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 10 Format: Numeric

Imputation and derivation

DERIVATION

variable: parlamp_mode (table[s]: derived variable)
 variable: radio_mode (table[s]: derived variable)
 variable: mopho_mode (table[s]: derived variable)
 variable: landpho_mode (table[s]: derived variable)
 variable: tabchar_mode (table[s]: derived variable)
 variable: bedmt_mode (table[s]: derived variable)
 variable: bicyc_mode (table[s]: derived variable)
 variable: telv_mode (table[s]: derived variable)
 variable: egcook_mode (table[s]: derived variable)
 variable: sofa_mode (table[s]: derived variable)
 variable: oxcart_mode (table[s]: derived variable)
 variable: refrig_mode (table[s]: derived variable)
 variable: motcyc_mode (table[s]: derived variable)
 variable: car_mode (table[s]: derived variable)
 variable: cow_mode (table[s]: derived variable)
 variable: site (table[s]: derived variable)

Total possession value is calculated using the kwacha values listed in hhpossscore_mode for each item the household possesses (using the mode household responses), then converted to a score out of 10, relative to other asset values in the

dataset (Karonga only).

HHPOSSSCOREL_MODE: Lilongwe only: summary possession score using the mode values (D)

Data file: ncd_combined_data_all

Overview

Valid: 16672 Invalid: 13903

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 10 Format: Numeric

Imputation and derivation

DERIVATION

variable: parlamp_mode (table[s]: derived variable)
 variable: radio_mode (table[s]: derived variable)
 variable: mopho_mode (table[s]: derived variable)
 variable: landpho_mode (table[s]: derived variable)
 variable: tabchar_mode (table[s]: derived variable)
 variable: bedmt_mode (table[s]: derived variable)
 variable: bicyc_mode (table[s]: derived variable)
 variable: telv_mode (table[s]: derived variable)
 variable: egcook_mode (table[s]: derived variable)
 variable: sofa_mode (table[s]: derived variable)
 variable: oxcart_mode (table[s]: derived variable)
 variable: refrig_mode (table[s]: derived variable)
 variable: motcyc_mode (table[s]: derived variable)
 variable: car_mode (table[s]: derived variable)
 variable: cow_mode (table[s]: derived variable)
 variable: site (table[s]: derived variable)

Total possession value is calculated using the kwacha values listed in hhpossscore_mode for each item the household possesses (using the mode household responses), then converted to a score out of 10, relative to other asset values in the dataset (Lilongwe only).

ADVLWT: Advice doctor

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

Have you received advice from your doctor or other health professional to lose weight?

CATEGORIES

Value	Category	Cases	
0	No	26041	85.2%
1	Yes	4534	14.8%

Imputation and derivation

DERIVATION

variable: advlwt (table[s]: ncdk_persexam & ncdl_persexam)

ADVSOM: Advice doctor stop smoking

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

Have you received advice from your doctor or other health professional to stop smoking?

CATEGORIES

Value	Category	Cases	
0	No	25900	84.7%
1	Yes	4675	15.3%

Imputation and derivation

DERIVATION

variable: advsom (table[s]: ncdk_persexam & ncdl_persexam)

ADVEXR: Advice doctor more exercise

Data file: ncd_combined_data_all

Overview

Valid: 30524 Invalid: 51

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

Have you received advice from your doctor or other health professional to do more exercise?

CATEGORIES

Value	Category	Cases	
0	No	24177	79.2%
1	Yes	6347	20.8%
Sysmiss		51	

Imputation and derivation

DERIVATION

variable: advexr (table[s]: ncdk_persexam & ncdl_persexam)

ADVBP: Blood pressure taken no months

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 3 Range: 0 - 999 Format: Numeric

Questions and instructions

QUESTION PRETEXT

(999 for never measured)], 0 if less than a month

LITERAL QUESTION

How long ago did you last have your blood pressure measured?

CATEGORIES

Value	Category
999	Not taken

Imputation and derivation

DERIVATION

variable: advbp (table[s]: ncdk_persexam & ncdl_persexam)

DIABP: Diagnosed high blood pressure

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

LITERAL QUESTION

Have you ever been diagnosed with high blood pressure by a doctor or other health professional?

CATEGORIES

Value	Category	Cases	
0	No	27821	91%
1	Yes	2754	9%

8	Unknown	0	0%
---	---------	---	----

QUESTION POST TEXT

If No go to Q10.9

Imputation and derivation

DERIVATION

variable: diabp (table[s]: ncdk_persexam & ncdl_persexam)

AGEDIBP: Age diagnosed high blood pressure

Data file: ncd_combined_data_all

Overview

Valid: 2754 Invalid: 27821

Type: Continuous Decimal: 0 Width: 3 Range: 1 - 999 Format: Numeric

Questions and instructions

QUESTION PRETEXT

999 if unknown

LITERAL QUESTION

If yes, what age were you when you first diagnosed?

Imputation and derivation

DERIVATION

variable: agedibp (table[s]: ncdk_persexam & ncdl_persexam)

REMDBP: Medication for high blood pressure

Data file: ncd_combined_data_all

Overview

Valid: 2755 Invalid: 27820

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

LITERAL QUESTION

Are you on regular medication for high blood pressure?

CATEGORIES

Value	Category	Cases	
0	No	1499	54.4%
1	Yes	1251	45.4%

8	Unknown	5	0.2%
Sysmiss		27820	

QUESTION POST TEXT

If No go to Q10.9

Imputation and derivation

DERIVATION

variable: remdbp (table[s]: ncdk_persexam & ncdl_persexam)

BLSUG: Blood sugar taken no months

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 3 Range: 1 - 999 Format: Numeric

Questions and instructions

QUESTION PRETEXT

999 for never measured

LITERAL QUESTION

When was the last time you had your blood sugar checked?

CATEGORIES

Value	Category
999	Not taken

Imputation and derivation

DERIVATION

variable: blsug (table[s]: ncdk_persexam & ncdl_persexam)

DIADIAB: Diagnosed diabetes

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

LITERAL QUESTION

Have you been diagnosed with diabetes by a doctor or other health professional?

CATEGORIES

Value	Category	Cases	
0	No	30217	98.8%
1	Yes	358	1.2%
8	Unknown	0	0%

QUESTION POST TEXT

If No go to Q10.14

Imputation and derivation

DERIVATION

variable: diadiab (table[s]: ncdk_persexam & ncdl_persexam)

AGEDIAB: Age diagnosed diabetes

Data file: ncd_combined_data_all

Overview

Valid: 363 Invalid: 30212

Type: Discrete Decimal: 0 Width: 3 Range: 1 - 999 Format: Numeric

Questions and instructions

QUESTION PRETEXT

999 if unknown

LITERAL QUESTION

If yes, what age were you when you first diagnosed?

CATEGORIES

Value	Category
999	Missing

Imputation and derivation

DERIVATION

variable: agediab (table[s]: ncdk_persexam & ncdl_persexam)

REMDDIAB: Medication for diabetes

Data file: ncd_combined_data_all

Overview

Valid: 363 Invalid: 30212

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

LITERAL QUESTION

Are you on regular medication for diabetes?

CATEGORIES

Value	Category	Cases	
0	No	121	33.3%
1	Yes	242	66.7%
8	Unknown	0	0%
Sysmiss		30212	

QUESTION POST TEXT

If No go to Q10.14

Imputation and derivation

DERIVATION

variable: remddiab (table[s]: ncdk_persexam & ncdl_persexam)

CHOLE: Cholesterol taken no months

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 999 Format: Numeric

Questions and instructions

QUESTION PRETEXT

999 for never measured

LITERAL QUESTION

When was the last time you had your cholesterol checked?

CATEGORIES

Value	Category
999	Not taken

Imputation and derivation

DERIVATION

variable: chole (table[s]: ncdk_persexam & ncdl_persexam)

DIACHOLE: Diagnosed cholesterol**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

LITERAL QUESTION

Have you ever been diagnosed with raised cholesterol by a doctor or other health professional?

CATEGORIES

Value	Category	Cases	
0	No	30504	99.8%
1	Yes	71	0.2%
8	Unknown	0	0%

QUESTION POST TEXT

If No go to Q10.19

Imputation and derivation

DERIVATION

variable: diachole (table[s]: ncdk_persexam & ncdl_persexam)

AGECHOLE: Age diagnosed cholesterol**Data file:** ncd_combined_data_all**Overview**

Valid: 71 Invalid: 30504
 Type: Continuous Decimal: 0 Width: 3 Range: 6 - 999 Format: Numeric

Questions and instructions

QUESTION PRETEXT

999 if unknown

LITERAL QUESTION

If yes, what age were you when you first diagnosed?

Imputation and derivation

DERIVATION

variable: agechole (table[s]: ncdk_persexam & ncdl_persexam)

REMDCHO: Medication for cholesterol**Data file:** ncd_combined_data_all**Overview**

Valid: 71 Invalid: 30504

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

LITERAL QUESTION

Are you on regular medication for raised cholesterol?

CATEGORIES

Value	Category	Cases	
0	No	61	85.9%
1	Yes	10	14.1%
8	Unknown	0	0%
Sysmiss		30504	

Imputation and derivation

DERIVATION

variable: remdcho (table[s]: ncdk_persexam & ncdl_persexam)

DIASTRO: Diagnosed stroke**Data file:** ncd_combined_data_all**Overview**

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

LITERAL QUESTION

Have you ever been diagnosed with stroke by a doctor or other health professional?

CATEGORIES

Value	Category	Cases	
0	No	30349	99.3%
1	Yes	226	0.7%
8	Unknown	0	0%

QUESTION POST TEXT

If No go to Q10.21

Imputation and derivation

DERIVATION

variable: diastro (table[s]: ncdk_persexam & ncdl_persexam)

AGESTRO: Age diagnosed stroke

Data file: ncd_combined_data_all

Overview

Valid: 226 Invalid: 30349

Type: Continuous Decimal: 0 Width: 3 Range: 1 - 999 Format: Numeric

Questions and instructions

QUESTION PRETEXT

999 if unknown

LITERAL QUESTION

If yes, what age were you when you first diagnosed?

Imputation and derivation

DERIVATION

variable: agestro (table[s]: ncdk_persexam & ncdl_persexam)

DIAHEART: Diagnosed heart disease

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

LITERAL QUESTION

Have you ever been diagnosed with heart disease by a doctor or other health professional?

CATEGORIES

Value	Category	Cases	
0	No	30016	98.2%
1	Yes	559	1.8%
8	Unknown	0	0%

QUESTION POST TEXT

If No go to Q10.25

Imputation and derivation

DERIVATION

variable: diaheart (table[s]: ncdk_persexam & ncdl_persexam)

AGEHT: Age diagnosed heart disease

Data file: ncd_combined_data_all

Overview

Valid: 559 Invalid: 30016

Type: Continuous Decimal: 0 Width: 3 Range: 1 - 999 Format: Numeric

Questions and instructions

QUESTION PRETEXT

999 if unknown

LITERAL QUESTION

If yes, what age were you when you first diagnosed?

Imputation and derivation

DERIVATION

variable: ageht (table[s]: ncdk_persexam & ncdl_persexam)

TYPEHTD: Type heart disease

Data file: ncd_combined_data_all

Overview

Valid: 559 Invalid: 30016

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

Type of heart disease you diagnosed?

CATEGORIES

Value	Category	Cases	
1	Angina	97	17.4%
2	Heart attack	111	19.9%
3	Heart failure	39	7%
4	Other	68	12.2%
8	Don't know	244	43.6%

9	Missing	0	
Sysmiss		30016	

Imputation and derivation

DERIVATION

variable: typehtd (table[s]: ncdk_persexam & ncdl_persexam)

WHEZE: Wheezing in last year

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

Have you had wheezing or whistling in your chest at any time in the past year?

CATEGORIES

Value	Category	Cases	
0	No	29585	96.8%
1	Yes	990	3.2%

Imputation and derivation

DERIVATION

variable: wheze (table[s]: ncdk_persexam & ncdl_persexam)

SPWHEZE: Wheezing in last year make short of breath

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

In the last year have you ever had an attack of wheezing or whistling that has made you feel short of breath?

CATEGORIES

Value	Category	Cases	
-------	----------	-------	--

0	No	29395	96.1%
1	Yes	1180	3.9%

Imputation and derivation

DERIVATION

variable: spwheze (table[s]: ncdk_persexam & ncdl_persexam)

ASTHMA: Diagnosed asthma

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

Have you ever been diagnosed with asthma, asthmatic bronchitis or allergic bronchitis by a doctor or other health professional?

CATEGORIES

Value	Category	Cases	
0	No	29088	95.1%
1	Yes	1487	4.9%

QUESTION POST TEXT

If No go to Q10.31

Imputation and derivation

DERIVATION

variable: asthma (table[s]: ncdk_persexam & ncdl_persexam)

AGEATHMA: Age diagnosed asthma

Data file: ncd_combined_data_all

Overview

Valid: 1487 Invalid: 29088

Type: Continuous Decimal: 0 Width: 3 Range: 0 - 999 Format: Numeric

Questions and instructions

QUESTION PRETEXT

999 if unknown

LITERAL QUESTION

If yes, what age were you when you first diagnosed?

QUESTION POST TEXT

If yes, what age were you when you first diagnosed?

Imputation and derivation

DERIVATION

variable: ageathma (table[s]: ncdk_persexam & ncdl_persexam)

ASTHMED: Medication for asthma

Data file: ncd_combined_data_all

Overview

Valid: 1487 Invalid: 29088

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

LITERAL QUESTION

Are you on regular medication for asthma?

CATEGORIES

Value	Category	Cases	
0	No	831	55.9%
1	Yes	650	43.7%
8	Unknown	6	0.4%
Sysmiss		29088	

Imputation and derivation

DERIVATION

variable: asthmed (table[s]: ncdk_persexam & ncdl_persexam)

DIATB: Diagnosed TB

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

LITERAL QUESTION

Have you ever been diagnosed with tuberculosis by a doctor or other health professional?

CATEGORIES

Value	Category	Cases	
0	No	29821	97.5%
1	Yes	754	2.5%

QUESTION POST TEXT

If No go to Q11.1

Imputation and derivation

DERIVATION

variable: diatb (table[s]: ncdk_persexam & ncdl_persexam)

AGETB: Age diagnosed TB

Data file: ncd_combined_data_all

Overview

Valid: 754 Invalid: 29821 Mean: 77.785

Type: Discrete Decimal: 0 Width: 3 Range: 1 - 999 Format: Numeric

Questions and instructions

QUESTION PRETEXT

999 if unknown

LITERAL QUESTION

If yes, what age were you when you first diagnosed?

CATEGORIES

Value	Category
999	Missing

Imputation and derivation

DERIVATION

variable: agetb (table[s]: ncdk_persexam & ncdl_persexam)

SYSTOLIC: Systolic blood pressure (average) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30555 Invalid: 20 Minimum: 74 Maximum: 257.5 Mean: 122.4 Standard deviation: 17.473

Type: Continuous Decimal: 0 Width: 5 Range: 74 - 257.5 Format: Numeric

Imputation and derivation

DERIVATION

variable: sysbpf [first systolic result] (table[s]: ncdk_persexam & ncdl_persexam)
 variable: sysbps [second systolic result] (table[s]: ncdk_persexam & ncdl_persexam)
 variable: sysbpt [third systolic result] (table[s]: ncdk_persexam & ncdl_persexam)
 Missing and highly unlikely (<60) values are removed, and an average of the second (sysbps) and third (sysbpt) reading used, unless one of those was not recorded, in which case the first (sysbpf) and second, or first and third readings are averaged.
 recode sysbpf 999=. min/60=.
 recode sysbps 999=. min/60=.
 recode sysbpt 999=. min/60=.
 gen systolic=(sysbpf+sysbps+sysbpt)/2
 replace systolic=(sysbpf+sysbps)/2 if systolic==. /*1st & 2nd*/
 replace systolic=(sysbpf+sysbpt)/2 if systolic==. /*1st & 3rd*/

■ DIASTOLIC: Diastolic blood pressure (average) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30554 Invalid: 21 Minimum: 42 Maximum: 146.5 Mean: 73.336 Standard deviation: 10.884
 Type: Continuous Decimal: 0 Width: 5 Range: 42 - 146.5 Format: Numeric

Imputation and derivation

DERIVATION

variable: diabpf [first diastolic result] (table[s]: ncdk_persexam & ncdl_persexam)
 variable: diabps [second diastolic result] (table[s]: ncdk_persexam & ncdl_persexam)
 variable: diabpt [third diastolic result] (table[s]: ncdk_persexam & ncdl_persexam)
 Missing and highly unlikely (<40) values are removed, and an average of the second (diabps) and third (diabpt) reading used, unless one of those was not recorded, in which case the first (diabpf) and second, or first and third readings are averaged.
 recode diabpf 999=. min/40=.
 recode diabps 999=. min/40=.
 recode diabpt 999=. min/40=.
 gen diastolic=(diabps+diabpt)/2
 replace diastolic=(diabpf+diabps)/2 if diastolic==. /*1st & 2nd*/
 replace diastolic=(diabpf+diabpt)/2 if diastolic==. /*1st & 3rd*/

■ HT: Hypertensive level (4 categories) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30554 Invalid: 21
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-------	----------	-------	--

0	No	26726	87.5%
1	mild: dia90+sys140+	2405	7.9%
2	moderate: dia100+sys160+	942	3.1%
3	Severe: dia110+sys180+	481	1.6%
Sysmiss		21	

Imputation and derivation

DERIVATION

variable: systolic [average systolic result] (table[s]: derived variable)

variable: diastolic [average diastolic result] (table[s]: derived variable)

Systolic and diastolic blood pressure measures are combined into a hypertension variable with 4 categories.

gen ht=0 if diastolic<90 & systolic<140

replace ht=1 if (diastolic>=90 & diastolic~=.) | (systolic>=140 & systolic~=.)

replace ht=2 if (diastolic>=100 & diastolic~=.) | (systolic>=160 & systolic~=.)

replace ht=3 if (diastolic>=110 & diastolic~=.) | (systolic>=180 & systolic~=.)

HYPERTENSION: Hypertensive level (2 categories) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30554 Invalid: 21

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	26726	87.5%
1	Yes	3828	12.5%
8	Unknown	0	0%
Sysmiss		21	

Imputation and derivation

DERIVATION

variable: ht [hypertension level] (table[s]: derived variable)

ht variable is further collapsed into a binary variable so any one with BP over 100/160 is classed as hypertensive.

recode ht 2/3=1, gen(hypertension)

WEIGHT: Weight (average) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30539 Invalid: 36 Minimum: 25 Maximum: 168.3 Mean: 60.367 Standard deviation: 12.126
 Type: Continuous Decimal: 0 Width: 16 Range: 25 - 168.300003051758 Format: Numeric

Questions and instructions

LITERAL QUESTION

Weight (Kgs)

Imputation and derivation

DERIVATION

variable: weigf [first weight result] (table[s]: ncdk_persexam & ncdl_persexam)

variable: weigs [second weight result] (table[s]: ncdk_persexam & ncdl_persexam)

Missing and impossible (<1.1) values removed and an average of the 2 (weigf, weigs) measurements calculated; if only one measurement was taken that is used.

recode weigf 999=.

recode weigs 999=.

replace weigf=weigs if weigf==.

replace weigs=weigf if weigs==.

gen weight=(weigf+weigs)/2

replace weight=. if weight<1.1

HEIGHT: Height (average) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30521 Invalid: 54 Minimum: 100 Maximum: 219 Mean: 160.027 Standard deviation: 7.979
 Type: Continuous Decimal: 0 Width: 3 Range: 100 - 219 Format: Numeric

Imputation and derivation

DERIVATION

variable: heigf [first height result] (table[s]: ncdk_persexam & ncdl_persexam)

variable: heigs [second height result] (table[s]: ncdk_persexam & ncdl_persexam)

Missing and impossible (<1.1) values removed and an average of the 2 heigf, heigs) measurements calculated; if only one measurement was taken that is used.

recode heigf 999=.

recode heigs 999=.

replace heigf=heigs if heigf==.

replace heigs=heigf if heigs==.

gen height=(heigf+heigs)/2

replace height=. if height<1.1

BMI: body mass index (excluding pregnant women) (D)

Data file: ncd_combined_data_all

Overview

Valid: 29450 Invalid: 1125 Minimum: 12.602 Maximum: 65.023 Mean: 23.534 Standard deviation: 4.551

Type: Continuous Decimal: 0 Width: 16 Range: 12.601616859436 - 65.0228805541992 Format: Numeric

Description

DEFINITION

body mass index (weight in kg / height in metres squared) (excluding pregnant women)

Imputation and derivation

DERIVATION

variable: weight [average weight result] (table[s]: derived variable)

variable: height [average height result] (table[s]: derived variable)

variable: curpreg [currently pregnant] (table[s]: ncdk_personal, ncdl_personal)

BMI (weight in kg per height in metres squared) is calculated using the averaged weight and height variables: it is not calculated for pregnant women.

gen BMI=weight/((height/100)*(height/100))

replace BMI=. if curpreg==1

BMIGROUP: categorised BMI (D)

Data file: ncd_combined_data_all

Overview

Valid: 29450 Invalid: 1125

Type: Discrete Decimal: 0 Width: 2 Range: 10 - 30 Format: Numeric

Imputation and derivation

DERIVATION

variable: bmi [body mass index] (table[s]: derived variable)

egen BMIGroup=cut(BMI), at (10, 18,25,30,100)

WAIST: Waist circumference (average) (D)

Data file: ncd_combined_data_all

Overview

Valid: 29470 Invalid: 1105 Minimum: 23 Maximum: 184.1 Mean: 79.451 Standard deviation: 10.488

Type: Continuous Decimal: 0 Width: 16 Range: 23 - 184.100006103516 Format: Numeric

Imputation and derivation

DERIVATION

variable: waiscf [first waist result] (table[s]: ncdk_persexam & ncdl_persexam)

variable: waiscs [second waist result] (table[s]: ncdk_persexam & ncdl_persexam)

Missing values removed and an average of the 2 (waiscf, waiscs) measurements calculated; if only one measurement was taken that is used.

replace waiscf=. if waiscf==999

replace waiscs=. if waiscs==999

replace waiscf=waiscs if waiscf==.

```
replace waiscs=waiscf if waiscs==.
gen waist=(waiscf+waiscs)/2
```

HIP: Hip circumference (average) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30519 Invalid: 56 Minimum: 58 Maximum: 198 Mean: 94.896 Standard deviation: 10.028
 Type: Continuous Decimal: 0 Width: 3 Range: 58 - 198 Format: Numeric

Imputation and derivation

DERIVATION

```
variable: hipcuf [first hip result] (table[s]: ncdk_persexam & ncdl_persexam)
variable: hipcus [second hip result] (table[s]: ncdk_persexam & ncdl_persexam)
Missing values removed and an average of the 2 (hipcuf, hipcus) measurements calculated; if only one measurement was
taken that is used.
replace hipcuf=. if hipcuf==999
replace hipcus=. if hipcus==999
replace hipcuf=hipcus if hipcuf==.
replace hipcus=hipcuf if hipcus==.
gen hip=(hipcuf+hipcus)/2
```

MUAC: Mid-upper arm circumference (average) (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0
 Type: Continuous Decimal: 0 Width: 16 Range: 14.3999996185303 - 99 Format: Numeric

Imputation and derivation

DERIVATION

```
variable: midacif [first muac result] (table[s]: ncdk_persexam & ncdl_persexam)
variable: midacis [second muac result] (table[s]: ncdk_persexam & ncdl_persexam)
Missing values removed and an average of the 2 (midacif, midacis) measurements calculated; if only one measurement was
taken that is used.
replace midacif=. if midacif==999
replace midacis=. if midacis==999
replace midacif=midacis if midacif==.
replace midacis=midacif if midacis==.
gen muac=(midacif+midacis)/2
```

GLUCUNITS_FAST: result of fasted glucose test (D)

Data file: ncd_combined_data_all

Overview

Valid: 25033 Invalid: 5542

Type: Continuous Decimal: 0 Width: 4 Range: 1.8 - 39.7 Format: Numeric

Imputation and derivation

DERIVATION

variable: units [lab result] (table[s]: ser_glucose, lab_glucose)

variable: basefoll [fasted or non-fasted sample] (table[s]: ser_specimen, lab_specimen)

The result of the glucose level test for each participant appears here, if it was from a fasted blood sample.

GLUCUNITS_NONFAST: result of non-fasted glucose test (D)

Data file: ncd_combined_data_all

Overview

Valid: 44 Invalid: 30531

Type: Discrete Decimal: 0 Width: 3 Range: 3.3 - 20 Format: Numeric

Imputation and derivation

DERIVATION

variable: units [lab result] (table[s]: ser_glucose, lab_glucose)

variable: basefoll [fasted or non-fasted sample] (table[s]: ser_specimen, lab_specimen)

The result of the glucose level test for each participant appears here, if it was from a non-fasted blood sample.

DIABETES: binary diabetes variable using glucose level and self-report (D)

Data file: ncd_combined_data_all

Overview

Valid: 30575 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	24498	80.1%
1	Yes	609	2%
8	Unknown	5468	17.9%

Imputation and derivation

DERIVATION

variable: glucunits_NONfast [non-fasted blood glucose result] (table[s]: derived variable)

variable: glucunits_fast [fasted blood glucose result] (table[s]: derived variable)

variable: diadiab [ever diagnosed with diabetes] (table[s]: ncdk_persexam & ncdl_persexam)

Glucose test results and self-reported previous diabetes diagnosis are combined to create an overall diabetes binary

variable: classed as diabetic if non-fasting result is over 11, fasted result over 7 or reported previous diagnosis.

gen diabetes=9

replace diabetes=0 if glucunits_NONfast<11| glucunits_fast<7

replace diabetes=1 if diadiab==1 | (((glucunits_NONfast>11 & glucunits_NONfast~=.) | (glucunits_fast>=7 & glucunits_fast~=.)) & diabetes==.)

FASTGLUC: categorised variable of impaired glucose (D)

Data file: ncd_combined_data_all

Overview

Valid: 24706 Invalid: 5869

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	not impaired	23230	94%
1	Slightly impaired 5.6-7	1226	5%
2	Impaired 7+	250	1%
Sysmiss		5869	

Imputation and derivation

DERIVATION

variable: glucunits_fast [fasted blood glucose result] (table[s]: derived variable)

variable: diadiab [ever diagnosed with diabetes] (table[s]: ncdk_persexam & ncdl_persexam)

Results of fasting blood glucose levels collapsed into categories, excluding participants who reported a previous diabetes diagnosis.

gen fastgluc=0 if glucunits_fast<5.6 & glucunits_fast!=.

replace fastgluc=1 if glucunits_fast>=5.6 & glucunits_fast<7.0

replace fastgluc=2 if glucunits_fast>=7.0 & glucunits_fast!=.

replace fastgluc=. if diadiab==1

HGB: Haemoglobin

Data file: ncd_combined_data_all

Overview

Valid: 25073 Invalid: 5502 Minimum: 3.4 Maximum: 22.2 Mean: 13.745 Standard deviation: 1.812

Type: Continuous Decimal: 0 Width: 16 Range: 3.40000009536743 - 22.2000007629395 Format: Numeric

Imputation and derivation

DERIVATION

variable: hgb (table[s]: ser_fbc, lab_fbc)

HBA1_UNITS: Percentage

Data file: ncd_combined_data_all

Overview

Valid: 3647 Invalid: 26928

Type: Continuous Decimal: 0 Width: 16 Range: 2.96000003814697 - 21.1599998474121 Format: Numeric

Imputation and derivation

DERIVATION

variable: hba1_units (table[s]: ser_hba1c, lab_hba1c)
