Codebook

Harmonised ExPoSE England Dataset V. 1.2

Dataset name:	DATA_EN
Dataset size:	101.6 Mb
Column count:	111
Row count:	168,296
Updated date:	2025-10-06
Changes from version 1.1:	Value labels for occupation have been corrected; Employment status variable has been corrected.

1	Column name:		country_ISO	
	Column description: Data type:		Country ISO code	
			Factor	
	Unique non-missing	g value count:	1	
	Missing value coun	t:	0	
	Categories	Frequency	Cumulative Frequency	Percent
	GBR	168,296	168,296	100.00
2	Column name:		country_name	
	Column description	:	Country name	
	Column description Data type:	:	Country name Factor	
	_		•	
	Data type:	g value count:	Factor	
	Data type: Unique non-missing	g value count:	Factor	Percent
	Data type: Unique non-missing Missing value coun	g value count: t:	Factor 1 0	Percent 100.00
3	Data type: Unique non-missing Missing value coun Categories	y value count: t: Frequency	Factor 1 0 Cumulative Frequency	

Data type: Factor

Unique non-missing value count: 17

Missing value count: 0

Categories with Smallest Values	Frequency	Categories with Largest Values	Frequency
HSE 2009	4645	HSE 2006	14142
HSE 2007	6882	HSE 2003	14836
HSE 2002	7393	HSE 2008	15098
HSE 2005	7630	HSE 2001	15634
HSE 2017	7997	HSE 1998	15802

4	Column	name:	year		
	Column description:		Year of data of	collection - Survey med	lian
	Data type:		Numeric		
	Unique non-missing value count:		17		
	Missing value count:		0		
	Min	Mean	Median	Max	SD
	1998.00	2007.53	2008.00	2017.00	5.66

5	Column	name:	pid		
	Data type: Source information: Unique non-missing value count: Missing value count:		Numeric		
				the harmonised dataset al in the dataset.	t to be unique for
			168,296		
			0		
	Min	Mean	Median	Max	SD
19	9981.00	45663875.48	20094344.50	200815098.00	65732282.95

6	Column name:	psu

Column description: Primary Sampling Unit (PSU)

Generated in the harmonised dataset to be unique.

Codes are not linked across sources, i.e. it is possible

that different codes are used to indicate the same PSU in

two different source datasets.

Data type: Numeric

Unique non-missing value count: 11,162

Missing value count: 0

Source information:

 Min
 Mean
 Median
 Max
 SD

 19981.00
 5308736.71
 2007556.00
 20101839.00
 7105865.99

7	Column name:		stratum		
	Column description	1:	Sampling stratum		
	Source information: Data type: Unique non-missing value count: Missing value count:		It is recommended to use the Government Office Region (GOR) as the stratum for trend analyses over time to ensure that there are at least 2 PSUs per stratum for calculation of variance. Individuals with a missing GOR were dropped from the analysis (106 individuals in 1998) Factor 9		
	Categories Frequency		Cumulative Frequency	Percent	
	1	11,878	11,878	7.06	
	2	23,586	35,464	14.01	
	3	17,038	52,502	10.12	
	4	16,009	68,511	9.51	
	5	17,174	85,685	10.20	
	6	19,068	104,753	11.33	
	7	19,770	124,523	11.75	
	8	25,319	149,842	15.04	
	9	18,454	168,296	10.97	
8	Column name:		aweight_en_int		

Column	Column description:		ght: Interview	
Source information:		be used for and	ghts from the original alyses involving only stionnaire or height, w	variables in the
Data type	Data type: Unique non-missing value count: Missing value count: Min Mean			
Unique n				
Missing v				
Min			Max	SD
0.28	1.00	1.00	9.89	0.31

9	Column nam	e:	aweight_en_int_cv	d	
	Column description:		Sampling weight: In	nterview, CVD ana	lysis
	Source information:		Based on the intervisurveys. However, interview weights for the CVD questions CVD module (sampindividual questions variables such as pretc.	for 2006, weights a or those aged 65+ v and exclude those i ble 1). To be used for naire that involve C	re the sample 2 who were asked not given the or analyses of the CVD module
	Data type:		Numeric		
	Unique non-m	nissing value count:	60,112		
	Missing value count:		64,740		
	Min	Mean	Median	Max	SD
	0.20	1.00	1.00	10.37	0.41

10	Column name:	aweight_en_nonlab	
	Column description:	Sampling weight: non-lab risk score	
	Source information:	Nurse interview weight (wt_nurse) from the HSE survey. To be used for analyses involving variables from the nurse interview such as blood pressure, waist and hip measurements and prescribed medications, including analyses involving the non-laboratory CVD risk scores.	
	Data type:	Numeric	
	Unique non-missing value count:	82,493	

	Missing value count:		39,041		
	Min	Mean	Median	Max	SD
	0.23	1.00	1.00	14.29	0.38
11	Column	name:	aweight_en_n	onlab_cvd	
	Column	description:	Sampling weig	ght: non-lab risk score	, CVD analysis
	Source in	formation:	score or nurse	analyses involving non interview variables the the CVD module in 2 onlab)	at also include
	Data type:		Numeric		
	Unique non-missing value count:		81,625		
	Missing v	value count:	40,251		
	Min	Mean	Median	Max	SD
	0.23	1.00	1.00	14.29	0.38
12	Column	name:	aweight_en_la	nb	
12		name: description:		tht: laboratory risk sec	ore
12	Column		Sampling weighted Blood sample To be used for		m the HSE survey. riables from the
12	Column	description: formation:	Sampling weighted Blood sample To be used for	tht: laboratory risk sec weight (wt_blood) fro analyses involving va	m the HSE survey. riables from the
12	Column of Source in Data type	description: formation:	Sampling weig Blood sample To be used for blood sample s	tht: laboratory risk sec weight (wt_blood) fro analyses involving va	m the HSE survey. riables from the
12	Column of Source in Data type Unique n	description: formation:	Sampling weig Blood sample To be used for blood sample s	tht: laboratory risk sec weight (wt_blood) fro analyses involving va	m the HSE survey. riables from the
12	Column of Source in Data type Unique n	description: formation: c: on-missing value count:	Sampling weig Blood sample To be used for blood sample s Numeric 60,111	tht: laboratory risk sec weight (wt_blood) fro analyses involving va	m the HSE survey. riables from the
12	Column of Source in Data type Unique no Missing v	description: formation: c: on-missing value count: value count:	Sampling weig Blood sample To be used for blood sample s Numeric 60,111 64,740	tht: laboratory risk scoweight (wt_blood) fro analyses involving vasuch as HbA1c and to	om the HSE survey. Arriables from the tal cholesterol.
12	Column of Source in Data type Unique no Missing with Min	description: formation: c: on-missing value count: value count: Mean 1.00	Sampling weig Blood sample To be used for blood sample s Numeric 60,111 64,740 Median	ght: laboratory risk sectors weight (wt_blood) from analyses involving value as HbA1c and to Max 10.37	om the HSE survey. Ariables from the tal cholesterol.

Source information:

To be used in analyses involving the laboratory CVD risk scores or in analyses of blood sample variables that

also include questions from the CVD module in 2006

(see note on aweight_en_lab).

Data type: Numeric

Unique non-missing value count: 59,434

Missing value count: 65,635

Min	Mean	Median	Max	SD
0.20	1.00	1.00	10.37	0.41

14	Column name	:	geolevel1_name		
	Column descrip		Administrative level 1 - Name Government office region. Merseyside was merged with North West in 1998.		
	Source informa	ation:			
	Data type: Unique non-missing value count:		Factor 9		
	Missing value	count:	0		
	Categories	Frequency	Cumulative Frequency	Percent	
E	ast Midlands	17,174	17,174	10.20	
	Eastern	19,068	36,242	11.33	
	London 19,770		56,012	11.75	
	North East	11,878	67,890	7.06	
N	Torth West &	22 586	01 476	14.01	

Edstern	15,000	20,212	11.33
London	19,770	56,012	11.75
North East	11,878	67,890	7.06
North West & Merseyside	23,586	91,476	14.01
South East	25,319	116,795	15.04
South West	18,454	135,249	10.97
West Midlands	16,009	151,258	9.51
Yorkshire & The Humberside	17,038	168,296	10.12

15	Column name:	geolevel1_code
	Column description:	Administrative level 1 - Code
	Source information:	Government office region. Merseyside was merged with North West in 1998.
	Data type:	Factor

Unique non-missing value count: 9

Missing value count: 0

Categories	Frequency	Cumulative Frequency	Percent
E1	11,878	11,878	7.06
E2	23,586	35,464	14.01
E3	17,038	52,502	10.12
E4	16,009	68,511	9.51
E5	17,174	85,685	10.20
E6	19,068	104,753	11.33
E7	19,770	124,523	11.75
E8	25,319	149,842	15.04
E9	18,454	168,296	10.97

16	Column name:		geotype2		
	Column description:		Urban/rural		
Data type:		Factor			
	Unique non-missing value count: Missing value count: Categories Frequency Non-urban 39,859 Urban 128,419		2 18		
			Cumulative Frequency	Percent	
			39,859	23.68	
			168,278	76.31	
Missing 18		168,296	0.01		

17	Column name:	intm
	Column description:	Interview - Month
	Data type:	Factor
	Unique non-missing value count:	12
	Missing value count:	24,042

Categories with Smallest Values	Frequency	Categories with Largest Values	Frequency
December	6877	February	12338
August	11568	March	12733
May	11985	January	13363
June	12026	November	15001
September	12028	Missing	24042

18	Column name:		intq		
	Column description:		Interview - Quarter		
	Data type:		Factor		
	Unique non-missing value count: Missing value count:		4		
			0		
	Categories Frequency		Cumulative Frequency	Percent	

Categories	Frequency	Cumulative Frequency	Percent	
First quarter of year	45,147	45,147	26.83	
Fourth quarter of year	39,969	85,116	23.75	
Second quarter of year	41,792	126,908	24.83	
Third quarter of year	41,388	168,296	24.59	

19 Column name:			inty			
	Data type: Source information Unique non-missing value count: Missing value count: Min Mean		Numeric			
			Year of interview 17			
			0			
			Median	Max	SD	
	1998.00	2007.53	2008.00	2017.00	5.66	

20	Column name:	Vism
	Column description:	Anthropometry - Month
	Source information:	Month of anthropometric measurements (nurse visits).

Data type: Factor

Unique non-missing value count: 12

Missing value count: 67,136

Categories with Smallest Values	Frequency	Categories with Largest Values	Frequency
December	5088	November	9048
August	7878	February	9113
April	8231	March	9375
July	8374	January	9456
September	8603	Missing	67136

21	Column name:	visq
	Column description:	Anthropometry - Quarter
	Source information:	Quarter of anthropometric measurements (nurse visit).
	Data type:	Factor
	Unique non-missing value count:	4
Missing value count:		46,008
	Categories Frequency	Cumulative Frequency Percent

Categories	Frequency	Cumulative Frequency	Percent	
I	34,240	34,240	20.35	
II	30,759	64,999	18.28	
III	29,904	94,903	17.77	
IV	27,385	122,288	16.27	
Missing	46,008	168,296	27.34	

22	Column name:	hh_size	
	Column description:	Household size	
	Data type:	Numeric	
Unique non-missing value count:		12	
	Missing value count:	24,042	

Min	Mean	Median	Max	SD
1.00	2.68	2.00	12.00	1.34

Column description: Data type:		Household size, categorical					
Data type:							
Data type: Unique non-missing value count: Missing value count:		Factor 6 0					
				egories	Frequency	Cumulative Frequency	Percent
				1	29,388	29,388	17.46
2	64,558	93,946	38.36				
3	29,872	123,818	17.75				
4	29,173	152,991	17.33				
5	10,338	163,329	6.14				
6+	4,967	168,296	2.95				
	Missing value count: egories 1 2 3 4 5	Missing value count: egories Frequency 1 29,388 2 64,558 3 29,872 4 29,173 5 10,338	Missing value count: 0 egories Frequency Cumulative Frequency 1 29,388 29,388 2 64,558 93,946 3 29,872 123,818 4 29,173 152,991 5 10,338 163,329				

24	Column name:		hh_ownhome		
	Column description: Source Information Data type: Unique non-missing value count: Missing value count:		Dwelling - Ownership		
			Mortgage, own outright & shared ownership have been considered as ownership ('Yes' 1). Renting, living rent free or squatting have been considered as not owning ('No' 0). Factor		
			502		
	Categories	Frequency	Cumulative Frequency	Percent	
	No	47,668	47,668	28.32	
	Yes	120,126	167,794	71.38	
	Missing	502	168,296	0.30	

25	Column name:	hh_ass_car_truck	
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Column description.	Column description:	Household assets: Car/Truck
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Source information:

Derived from HSE variable 'car' indicating whether the household has access to a car. Those with item not

applicable were coded as having no car/truck.

Data type: Factor

Unique non-missing value count: 2

Missing value count: 65

Categories	Frequency	Cumulative Frequency	Percent	
No	32,859	32,859	19.52	
Yes	135,372	168,231	80.44	
Missing	65	168,296	0.04	

26	Column name:		hh_carnum		
	Column description:		Number of cars available		
	Source information: Data type: Unique non-missing value count: Missing value count:		Derived from HSE variable 'numcars'.		
			Factor 4		
			102		
	Categories	Frequency	Cumulative Frequency	Percent	
	None	32,859	32,859	19.52	

Categories	Frequency	Cumulative Frequency	Percent	
None	32,859	32,859	19.52	
One	70,978	103,837	42.17	
Three or more	13,769	117,606	8.18	
Two	50,588	168,194	30.06	
Missing	102	168,296	0.06	

	27	Column name:	hh_recgrant
Column des		Column description:	Household receives government support.
		Source Information	Government support includes income from housing benefits, council tax benefits, family credit, child tax credit, other state benefits, job-seekers allowance or employment and support allowance. Those who reported receiving at least one of the above benefits in

the household were coded as 'Yes'. Missing responses included refusals, 'don't know' responses and where the item was not applicable because the respondent was not the household head or spouse/partner of the household head. All others were coded 'No'.

Data type: Factor

Unique non-missing value count: 2

Missing value count: 6,665

Categories	Frequency	Cumulative Frequency	Percent	
No	114,078	114,078	67.78	
Yes	47,553	161,631	28.26	
Missing	6,665	168,296	3.96	

e information:	categorical va Following the income in HS taken using th as boundaries income; for th was used and (£150,000+), Refusals, no a the item or scl interviewee w spouse), were	ands [GBP]. This was buriable 'totinc' in HSE stands to derive E, the midpoint of each to give an estimate or the lowest category (<£5 for the highest category the value was estimated answer, unknown incombedule was not applicated as not the household he coded as missing. Incomputed the purchasing p	surveys 1998-20 e equivalised h category was uses of each category average househo (520) a value of £4 y of income d at £160,000. The sand cases who had the comes have not becomes have not becomes the comes and cases who had the comes have not becomes have not becomes have not becomes and cases.
e information:	categorical va Following the income in HS taken using th as boundaries income; for th was used and (£150,000+), Refusals, no a the item or scl interviewee w spouse), were	emethod used to derive E, the midpoint of each the lower and upper valuate of the lowest category (<£5 for the highest category the value was estimated the value was estimated the value was not applicated as not the household he coded as missing. Income	surveys 1998-20 e equivalised h category was uses of each category average househo (520) a value of £4 y of income d at £160,000. The sand cases who had the comes have not becomes have not becomes the comes and cases who had the comes have not becomes have not becomes have not becomes and cases.
Source information: Data type:		iable is only available in et.	
e non-missing value count:	31		
g value count:	54,611		
Mean	Median	Max	SD
32660.70	24700.00	160000.00	29230.48
ıg T	Mean	Mean Median	Mean Median Max

29	Column name:	hh_income_quint
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Column description:	Household income quintile
	Based on equivalised household income as derived

Source information the HSE. This is a relative measure specific to each year and does not necessarily have the same meaning across

time.

Data type: Factor

Unique non-missing value count: 5

Missing value count: 31,413

Categories	Frequency	Cumulative Frequency	Percent
I (Lowest)	24,819	24,819	14.75
II	26,329	51,148	15.64
III	27,941	79,089	16.60
IV	28,783	107,872	17.10
V (Highest)	29,011	136,883	17.24
Missing	31,413	168,296	18.67

30	Column name:		hh_income_eq		
	Column description:		Household inco	ome, equivalised	
	Source information:		In GBP. As defined in the HSE (eqvinc). For 2015, this variable is only available in the Special Licence dataset.		
	Data type:		Numeric		
	Unique non-missing value count:		4,212		
	Missing value count:		50,697		
	Min Mean		Median	Max	SD
1	75.10	28613.91	21017.96	262295.08	26197.68

31	Column name:	sex
	Column description:	Sex
	Data type:	Factor
	Unique non-missing value count:	2
	Missing value count:	0

Categories	Frequency	Cumulative Frequ	ency Percent	
Female	93,173	93,173	55.36	
Male	75,123	168,296	44.64	
2 Column na	ame:	age		
Column de	escription:	Age		
Source information:		For HSE survey years up to HSE 2014, the actual age is years was used. For 2014, the actual age was used through age 89. For those aged 90+, their age was imputed at age 92 years, which was the nearest integer mean age of all adults aged 90+ years in the previous years of the survey considered (1998, 2001-2003, 2005 2013). For HSE 2015 to 2017, the categorical variable Age16g5 was used to estimate the ages of adults. The midpoint of each category was used to impute age in years. For those ages 16-17 years, their age was estimated at 16.5 years. For those ages 18-19 years, their age was estimated at 18.5 years. For the 5-year age categories beginning at age 20, the midpoint was also taken as the estimated age (e.g., 22 for age group 20-24 27 for age group 25-29, etc.) For those aged, 90+, their age was imputed at age 92 years.		
Data type:	Data type:			
Unique noi	n-missing value count:	88		
Missing va	lue count:	0		
Min	Mean	Median N	Max SD	
Min 16.00	Mean 49.01		Max SD 04.00 18.68	
16.00	49.01			
16.00	49.01 ame:	48.00 10		
16.00 3 Column na	49.01 ame:	48.00 10 agecat1		
16.00 Column na Column de Data type:	49.01 ame:	48.00 10 agecat1 Age category (5 years)		
16.00 Column na Column de Data type:	49.01 ame: escription: n-missing value count:	48.00 10 agecat1 Age category (5 years) Factor		
16.00 Column na Column de Data type: Unique non	49.01 ame: escription: n-missing value count:	48.00 10 agecat1 Age category (5 years) Factor 14	04.00 18.68	

16-19

8273

14201

50-54

20-24	9548	45-49	14498
80+	9575	35-39	15055
70-74	9994	40-44	15277

34	Column name:		agecat2		
	Column description	n:	Age category (10 years)		
	Data type:		Factor		
	Unique non-missin	g value count:	8 0		
	Missing value cour	nt:			
	Categories	Frequency	Cumulative Frequency	Percent	
	16-19	8,273	8,273	4.92	
	20-29	21,157	29,430	12.57	
	30-39	28,879	58,309	17.16	
	40-49	29,775	88,084	17.69	
	50-59	27,620	115,704	16.41	
	60-69	24,994	140,698	14.85	
	70-79	18,023	158,721	10.71	
	80+	9,575	168,296	5.69	
35	Column name:		race_e		
	Column description	Column description:		Ethnicity	
	Source information:				
	Source information	:	The four categories are based on t and have been recoded to align wi South African dataset.		
	Source information Data type:	:	and have been recoded to align wi		
			and have been recoded to align wi South African dataset.		
	Data type:	g value count:	and have been recoded to align wi South African dataset. Factor		
	Data type: Unique non-missin	g value count:	and have been recoded to align wi South African dataset. Factor		
	Data type: Unique non-missin Missing value coun	g value count:	and have been recoded to align wi South African dataset. Factor 5 534	th the order in the	

Mixed	1,574	13,842	0.94
Other	1,523	15,365	0.90
White	152,397	167,762	90.55
Missing	534	168,296	0.32

36	Column name:		marstatus	
	Column description:		Marital status	
	Data type: Unique non-missing value count:		Factor	
			3	
Missing value count:		52		
Ca	tegories	Frequency	Cumulative Frequency	Percent
	d/living with partner	105,394	105,394	62.62
Never n	narried/single	34,150	139,544	20.29
	ed/divorced/ parated	28,700	168,244	17.05
M	d issing	52	168,296	0.03

37 Column name:		edu3		
Column description	on:	Education: categorisation 3		
Source information:		Highest level of education. Those for whom the item was not applicable were coded as having no qualification.		
Data type:		Factor		
Unique non-missing value count: Missing value count:		7		
		12		
Categories	Frequency	Cumulative Frequency	Percent	
No qualification	44,499	66,935	26.44	
NVQ1/CSE other grade equiv	8,047	74,982	4.78	

111,968

21.98

36,986

NVQ2/GCE O Level equiv

NVQ3/GCE A Level equiv	22,533	134,501	13.39
NVQ4/NVQ5/Degree or equiv	33,783	168,284	20.07
Higher ed below degree	18,115	18,115	10.76
Foreign/Other	4,321	22,436	2.57
Missing	12	168,296	0.01

38 Colum	nn name:	етр		
Colum	nn description:	Employment		
Data t	ype:	Factor		
Unique non-missing value count: Missing value count:		2		
		17,261		
Categories	Frequency	Cumulative Frequency	Percent	
Employed	91,089	91,089	54.12	
Unemploye	rd 76,842	167,931	45.66	
Missing	365	168,296	0.22	

39	Column name:	occupation
	Source information:	Derived from sclass and sclass12 'Armed forces' (sclass) and '6' (sclass12) were grouped with other.
	Data type:	Factor
	Unique non-missing value count:	8
	Missing value count:	17,261

Categories	Frequency	Cumulative Frequency	Percent	
Not applicable	8,471	143,299	5.03	
Unskilled manual	7,736	151,035	4.60	
Semi-skilled manual	25,300	76,563	15.03	
Skilled manual	25,124	101,687	14.93	
Skilled non-manual	33,141	134,828	19.69	

Managerial technical	43,268	43,268	25.71
Professional	7,483	51,263	4.45
Other/not fully described	512	43,780	0.30
Missing	17,261	168,296	10.26

Column name:		smokstatus	
Column descrip	tion:	Smoking status	
Data type:		Factor	
Unique non-mis	ssing value count:	3	
Missing value c	ount:	1,092	
Categories	Frequency	Cumulative Frequency	Percent
Current smoker	36,493	36,493	21.68
Former smoker	44,087	80,580	26.20
Never smoker	86,624	167,204	51.47
Missing	1,092	168,296	0.65

41	Column name:		currsmok		
	Column description	:	Current smoker		
	Source information: Data type: Unique non-missing value count: Missing value count:		Non-smokers include former smokers. Factor 2 1,092		
	Categories	Frequency	Cumulative Frequency	Percent	
	No	130,711	130,711	77.67	
	Yes	36,493	167,204	21.68	
	Missing	1,092	168,296	0.65	

42	Column name:	alcstatus
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Column description: Alcohol status

Current drinkers include those who drink very

occasionally. Never drinkers are those reporting never drinking and always being a non-drinker. Former

drinkers are those who reported never drinking nowadays and that they used to drink but stopped.

Data type: Factor

Unique non-missing value count: 3

Source information:

Missing value count: 1,091

Categories	Frequency	Cumulative Frequency	Percent
Current drinker	145,726	145,726	86.59
Former drinker	8,730	154,456	5.19
Never drinker	12,749	167,205	7.58
Missing	1,091	168,296	0.65

43	Column name:		curralc	
	Column descriptio	n:	Current drinker	
Source information:		Current drinkers include those who drink very occasionally. Never drinkers are those reporting never drinking and always being a non-drinker. Former drinkers are those who reported never drinking nowadays and that they used to drink but stopped.		
	Data type: Unique non-missing value count: Missing value count:		Factor 2	
			1,064	
C	ategories	Frequency	Cumulative Frequency	Percent
Cur	rent drinker	145,726	145,726	86.59
No	on-drinker	21,506	167,232	12.78
]	Missing	1,064	168,296	0.63

44	Column name:	alcmax	
Column description:		Alcohol consumption on heaviest day [units]	
	Source information:	Number of units of alcohol consumed on heaviest day of drinking in the past 7 days.	

Data type: Factor

Unique non-missing value count: 4

Missing value count: 1,673

Categories	Frequency	Cumulative Frequency	Percent
<=4 units/day (men), <=3 units/day (women)	55,248	55,248	32.83
>4 and <=8 units/day (men), >3 and <=6 units/day (women)	25,851	81,099	15.36
>8 units/day (men), >6 units/day (women)	24,623	105,722	14.63
None	60,901	166,623	36.19
Missing	1,673	168,296	0.99

45	Column name:		fruitveg		
	Column description:		5+ portions of fruit/vegetables eaten yesterday		
	Source information:		Only available from 2001 onward.		
	Data type:		Factor		
	Unique non-missing value count: Missing value count:		2		
			32,212		
(Categories	Frequency	Cumulative Frequency	Percent	
	No	99,166	99,166	58.92	
	Yes	36,918	136,084	21.94	
	Missing	32,212	168,296	19.14	

46	Column name:		exercisefreq_e	
	Column description:		Weekly frequency of 30+ min moderate or more activity	
	Data type:		Factor	
	Unique non-missing value count:			
	Missing value count	:		
С	ategories	Frequency	Cumulative Frequency	Percent

Never

Less than once per week

Once or twice per week

Three of four times per week

Five or more times per week

Missing

47 Column name:		self_health			
	Column description:		Self-rated health		
Source information:		This was originally coded as: very good, good, fair, bad, very bad. It was recoded and categories renamed to align with the categories created for the harmonized South African dataset.			
	Data type:		Factor		
	Unique non-missing	g value count:	4		
	Missing value coun	t:	63		
	Categories	Frequency	Cumulative Frequency	Percent	
Poor/bad 12,448		114,038	7.40		
Average/fair 31,361		31,361	18.63		
Good 70,229		101,590	41.73		
Ver	y good/excellent	54,195	168,233	32.20	
	Missing	63	168,296	0.04	
48	Column name:		diag_hbp		
	Column description	:	Diagnosis: Hypertension		
Source information:		Available all years except 2001, 2002, 2007 & 2008. Based on 2 questions, whether you have ever had the condition and whether it was diagnosed by a doctor/(nurse). Those who responded 'no', 'don't know' or 'refused' to ever having were not asked about doctor diagnosis. Those who responded 'don't know' or 'refused' to ever having had the condition were coded as missing here. Those under age 65 in 2005 and those			

not receiving the CVD module in 2006 were coded as

missing.

Data type: Factor

Unique non-missing value count: 2

Missing value count: 53,051

Categories	Frequency	Cumulative Frequency	Percent	
No	83,630	83,630	49.69	
Yes	31,615	115,245	18.79	
Missing	53,051	168,296	31.52	

49	Column name:		diag_isch	
	Column description	n:	Diagnosis: Heart attack/angina	
	Source information:		Only available for the CVD years (65+), 2006 (CVD module) 2011, on 2 questions, whether you have and whether it was diagnosed by a who responded 'no', 'don't know' having were not asked about doctowho responded 'don't know' or 're had the condition were coded as munder age 65 in 2005 and those no module in 2006 were coded as missing the code of the cod	2013, 2017]. Based ever had the condition a doctor/(nurse). Those or 'refused' to ever or diagnosis. Those efused' to ever having hissing here. Those of receiving the CVD
	Data type:		Factor	
	Unique non-missir	ng value count:	2	
	Missing value cou	nt:	107,054	
	Categories	Frequency	Cumulative Frequency	Percent
	No	57,720	57,720	34.30
	Yes	3,522	61,242	2.09
	Missing 107,054		168,296	63.61

	50	Column name:	diag_stroke
Column description:		Column description:	Diagnosis: Stroke
		Source information:	Only available for the CVD years [1998, 2003, 2005 (65+), 2006 (CVD module) 2011, 2013, 2017]. Based on 2 questions, whether you have ever had the condition and whether it was diagnosed by a doctor/(nurse). Those

who responded 'no', 'don't know' or 'refused' to ever having were not asked about doctor diagnosis. Those who responded 'don't know' or 'refused' to ever having had the condition were coded as missing here. Those under age 65 in 2005 and those not receiving the CVD module in 2006 were coded as missing.

Data type: Factor

Unique non-missing value count: 2

Missing value count: 106,987

Categories	Frequency	Cumulative Frequency	Percent	
No	59,754	59,754	35.51	
Yes	1,555	61,309	0.92	
Missing	106,987	168,296	63.57	

51	Column name:		diag_diab	
	Column descript	ion:	Diagnosis: Diabetes/hyperglycaer	nia
	Source information:		Available all years except 2001, 2002, 2007 & 2008. Based on 2 questions, whether you have ever had the condition and whether it was diagnosed by a doctor/(nurse). Those who responded 'no', 'don't know' or 'refused' to ever having were not asked about doctor diagnosis. Those who responded 'don't know' or 'refused' to ever having had the condition were coded as missing here. Those under age 65 in 2005 and those not receiving the CVD module in 2006 were coded as missing.	
	Data type:		Factor	
	Unique non-miss	sing value count:	2	
	Missing value co	ount:	52,746	
	Categories	Frequency	Cumulative Frequency	Percent
	No	108,404	108,404	64.41
	Yes	7,146	115,550	4.25
	Missing	52,746	168,296	31.34

52	Column name:	diag gangan
34	Column name:	diag cancer

Column description: Diagnosis: Cancer

Source information:

Derived from the list of complaints from the limiting longstanding illnesses reported according to ICD categories. They are available for all years until 2014. For 2015, they are only available in the Special Licence dataset. However, they do not necessarily specify whether they were diagnosed by a doctor/nurse or not, so it is assumed that most were diagnosed by a doctor/nurse. In addition, respondents are only able to report up to 6 conditions. Therefore, those who have more conditions would only have the first 6 recorded.

Data type: Factor

Unique non-missing value count: 2

Missing value count: 8,101

Categories	Frequency	Cumulative Frequency	Percent
No	156,931	156,931	93.25
Yes	3,264	160,195	1.94
Missing	8,101	168,296	4.81

53	Column name:		diag_heart	
	Column descri	ption:	Diagnosis: Heart problems	
	Source information:		Heart and circulatory conditions. Derived from the list of complaints from the limiting longstanding illnesses reported according to ICD categories. They are available for all years until 2014. For 2015, they are only available in the Special Licence dataset. However, they do not necessarily specify whether they were diagnosed by a doctor/nurse or not, so it is assumed that most were diagnosed by a doctor/nurse. In addition, respondents are only able to report up to 6 conditions. Therefore, those who have more conditions would only have the first 6 recorded.	
	Data type:		Factor	
	Unique non-mi	issing value count:	2	
	Missing value	count:	8,101	
	Categories	Frequency	Cumulative Frequency	Percent
	No	139,659	139,659	82.98
	Yes	20,536	160,195	12.20
	Missing	8,101	168,296	4.81

54	Column name:		diag_diab2		
	Column description	n:	Diagnosis: diabetes, excluding pregnancy		
	Source information	n:	Based on the derived HSE variable diabete2. Those who responded 'no', 'don't know' or 'refused' to ever having were not asked about doctor diagnosis. Those who responded 'don't know' or 'refused' to ever having had the condition were coded as not having a doctor diagnosis, following the method of HSE. This differs from our derived variables above of diagnosis including in pregnancy.		
	Data type:		Factor		
	Unique non-missii	ng value count:	2		
	Missing value cou	nt:	52,644		
	Categories Frequency		Cumulative Frequency	Percent	
	No	108,990	108,990	64.76	
	Yes	6,662	115,652	3.96	
	Missing	52,644	168,296	31.28	
55	Column name:		diag_hbp2		
	Column description	n:	Diagnosis: hypertension, excluding pregnancy		
	Source information	n:	Based on the derived HSE variable responded 'no', 'don't know' or 'n having were not asked about doctor who responded 'don't know' or 'n had the condition were coded as not diagnosis, following the method of from our derived variables above in pregnancy.	refused' to ever or diagnosis. Those efused' to ever having ot having a doctor f HSE. This differs	
	Data type:		Factor		
	Unique non-missii	ng value count:	2		
	Missing value cou	nt:	52,712		
	Categories	Frequency	Cumulative Frequency	Percent	
	No	86,925	86,925	51.65	
	Yes	28,659	115,584	17.03	

Missing

52,712

168,296

31.32

56	Column name:		diag_angi		
	Column description	:	Diagnosis: angina		
	Source information:		Only available for the CVD years [1998, 2003, 2005 (65+), 2006 (CVD module) 2011, 2013, 2017]. Based on 2 questions, whether you have ever had the condition and whether it was diagnosed by a doctor/(nurse). Those who responded 'no', 'don't know' or 'refused' to ever having were not asked about doctor diagnosis. Those who responded 'don't know' or 'refused' to ever having had the condition were coded as missing here. Those under age 65 in 2005 and those not receiving the CVD module in 2006 were coded as missing.		
	Data type:		Factor		
	Unique non-missing	g value count:	2		
	Missing value coun	t:	107,053		
	Categories	Frequency	Cumulative Frequency	Percent	
	No	58,582	58,582	34.81	
	Yes	2,661	61,243	1.58	
	Missing 107,053		168,296	63.61	
57	Column name:		diag_mi		
	Column description	:	Diagnosis: heart attack (myocardial infarction)		
	Source information:		Only available for the CVD years [1998, 2003, 2005 (65+), 2006 (CVD module) 2011, 2013, 2017]. Based on 2 questions, whether you have ever had the condition and whether it was diagnosed by a doctor/(nurse). Those who responded 'no', 'don't know' or 'refused' to ever having were not asked about doctor diagnosis. Those who responded 'don't know' or 'refused' to ever havin had the condition were coded as missing here. Those under age 65 in 2005 and those not receiving the CVD module in 2006 were coded as missing.		
			under age 65 in 2005 and those not	issing here. Those receiving the CVD	
	Data type:		under age 65 in 2005 and those not	issing here. Those receiving the CVD	
	Data type: Unique non-missing	g value count:	under age 65 in 2005 and those not module in 2006 were coded as mis	issing here. Those receiving the CVD	
			under age 65 in 2005 and those not module in 2006 were coded as mis Factor	issing here. Those receiving the CVD	
	Unique non-missing		under age 65 in 2005 and those not module in 2006 were coded as mis Factor	issing here. Those receiving the CVD	

Yes	1,907	61,315	1.13
Missing	106,981	168,296	63.57

58	Column name:		diag lung		
30					
	Column description:		Diagnosis: Respiratory condition		
	Source information: Data type: Unique non-missing value count: Missing value count: Categories Frequency		Derived from the list of complaints from the limiting longstanding illnesses reported according to ICD categories. They are available for all years until 2014. For 2015, they are only available in the Special Licence dataset. However, they do not necessarily specify whether they were diagnosed by a doctor/nurse or not, so it is assumed that most were diagnosed by a doctor/nurse. In addition, respondents are only able to report up to 6 conditions. Therefore, those who have more conditions would only have the first 6 recorded.		
			2		
			8,101		
			Cumulative Frequency	Percent	
	No	146,194	146,194	86.87	
	Yes	14,001	160,195	8.32	
	Missing	8,101	168,296	4.81	
59	Column name:		diag_mental		
	Column description:		Diagnosis: Mental disorder		
	Source information:		Derived from the list of complaint longstanding illnesses reported accategories. They are available for a For 2015, they are only available i dataset. However, they do not necessively whether they were diagnosed by a so it is assumed that most were diagnosed to doctor/nurse. In addition, responder report up to 6 conditions. Therefor more conditions would only have	cording to ICD all years until 2014. In the Special Licence essarily specify doctor/nurse or not, agnosed by a ents are only able to re, those who have	

8,101

Data type: Factor
Unique non-missing value count: 2

Missing value count:

Categories	Frequency	Cumulative Frequency	Percent
No	153,269	153,269	91.07
Yes	6,926	160,195	4.12
Missing	8,101	168,296	4.81

0	Column name	:	diag_infectious	
	Column description: Source information:		Diagnosis: Infectious disorder	
			Derived from the list of complaints from the limiting longstanding illnesses reported according to ICD categories. They are available for all years until 2014. For 2015, they are only available in the Special Licence dataset. However, they do not necessarily specify whether they were diagnosed by a doctor/nurse or not, so it is assumed that most were diagnosed by a doctor/nurse. In addition, respondents are only able to report up to 6 conditions. Therefore, those who have more conditions would only have the first 6 recorded.	
	Data type:		Factor 2	
	Unique non-m	issing value count:		
	Missing value	count:	8,101	
	Categories	Frequency	Cumulative Frequency	Percent
	No	159,892	159,892	95.01
	Yes	303	160,195	0.18
	Missing	8,101	168,296	4.81

61	Column name:	diag_metabolic
	Column description:	Diagnosis: Endocrine/metabolic disorder
	Source information:	Derived from the list of complaints from the limiting longstanding illnesses reported according to ICD categories. They are available for all years until 2014. For 2015, they are only available in the Special Licence dataset. However, they do not necessarily specify whether they were diagnosed by a doctor/nurse or not, so it is assumed that most were diagnosed by a doctor/nurse. In addition, respondents are only able to report up to 6 conditions. Therefore, those who have more conditions would only have the first 6 recorded.
	Data type:	Factor

Unique non-missing value count: 2

Missing value count: 8,101

Categories	Frequency	Cumulative Frequency	Percent
No	147,445	147,445	87.61
Yes	12,750	160,195	7.58
Missing	8,101	168,296	4.81

62	Column name:		diag_nerve	
	Column description	:	Diagnosis: Nervous system disorde	er
	Source information:		Derived from the list of complaints from the limiting longstanding illnesses reported according to ICD categories. They are available for all years until 2014. For 2015, they are only available in the Special Licence dataset. However, they do not necessarily specify whether they were diagnosed by a doctor/nurse or not, so it is assumed that most were diagnosed by a doctor/nurse. In addition, respondents are only able to report up to 6 conditions. Therefore, those who have more conditions would only have the first 6 recorded.	
	Data type:		Factor	
	Unique non-missing	g value count:	2	
	Missing value coun	t:	8,101	
С	ategories	Frequency	Cumulative Frequency	Percent
	No	153,707	153,707	91.33
	Yes	6,488	160,195	3.86
]	Missing	8,101	168,296	4.81

63	Column name:	diag_blood
	Column description:	Diagnosis: Blood disorder
	Source information:	Derived from the list of complaints from the limiting longstanding illnesses reported according to ICD categories. They are available for all years until 2014. For 2015, they are only available in the Special Licence dataset. However, they do not necessarily specify whether they were diagnosed by a doctor/nurse or not, so it is assumed that most were diagnosed by a doctor/nurse. In addition, respondents are only able to

report up to 6 conditions. Therefore, those who have more conditions would only have the first 6 recorded.

Data type: Factor

Unique non-missing value count: 2

Missing value count: 8,101

Categories	Frequency	Cumulative Frequency	Percent	
No	158,869	158,869	94.40	
Yes	1,326	160,195	0.79	
Missing	8,101	168,296	4.81	

64	Column name:		bpmed		
	Column description	:	Medication: Hypertension		
	Source information: Data type: Unique non-missing value count: Missing value count:		Based on only those diagnosed with high BP apart from when pregnant. Not available for 2001, 2002 and 2016.		
			Factor 2		
			60,699		
C	ategories	Frequency	Cumulative Frequency	Percent	
	No	89,594	89,594	53.24	
	Yes	18,003	107,597	10.70	
1	Missing	60,699	168,296	36.07	

65	Column name:		bpmed_coded		
	Column description: Source information: Data type:		Medication: Hypertension, coded		
			Those with no answer/refused/unable to code (331) are coded as missing.		
			Factor		
	Unique non-missing	y value count:	2		
	Missing value count	::	46,853		
	Categories Frequency No 102,597		Cumulative Frequency	Percent	
			102,597	60.96	

Yes	18,846	121,443	11.20
Missing	46,853	168,296	27.84

66	Column name:		diabmed		
	Column description:		Medication: Diabetes/hyperglicaen	nia	
	Data type:		Factor		
	Unique non-missing	value count:	2 46,611		
	Missing value count				
	Categories Frequency		Cumulative Frequency	Percent	
	No 117,113		117,113	69.59	
	Yes 4,572 Missing 46,611 Column name: Column description: Data type:		121,685	2.72	
			168,296	27.70	
67			cholmed		
			Medication: Hypercholesterolaemi	a	
			Factor		
	Unique non-missing	value count:	2		
	Missing value count:		47,457		
	Categories	Frequency	Cumulative Frequency	Percent	
	No	106,423	106,423	63.24	
	Yes	14,416	120,839	8.57	
	Missing	47,457	168,296	28.20	
68	Column name:		heartmed		
	Column description:		Medication: Cardiovascular		
	Source information:		Cardiovascular medications taken		
	Data type:		Factor		
	Unique non-missing	value count:	2		
	Missing value count:				
	Tilliani Count				

Categories	Frequency	Cumulative Frequency	Percent
No			
Yes			

Missing

69	Column name:		heartmed2		
	Column description:		Medication: Heart condition or stroke		
	Source information:		Only available in CVD years (1998, 2003, 2005 (65+), 2006, 2011, 2013, 2017)		
	Data type: Unique non-missing value count:		Factor		
			2		
	Missing value count:				
Ca	ategories	Frequency	Cumulative Frequency	Percent	
	No				
Yes					
N	Missing				

70	Column name:		contraceptives		
C	Column description: Source information: Data type: Unique non-missing value count:		Medication: Contraceptives		
S			Females only. Item not applicable coded as 'No' (0), Schedule not obtained coded as missing. Factor		
Γ					
J					
N	Missing value count:		115,924		
Categ	gories	Frequency	Cumulative Frequency	Percent	
N	No 44,923 Yes 7,449		44,923	26.69	
Y			52,372	4.43	
Mis	ssing	115,924	168,296	68.88	

71	Column name:		currpreg		
	Column descript	tion:	Currently pregnant		
	Source information:		interview and is age 49 were not a response of 'No' participate in the response. Item no	asked this questio (0). Females und	only. Females over on and were given a der age 50 who did not would have a missing ded as 'No' (0),
	Data type:		Factor		
	Unique non-miss	sing value count:	2		
	Missing value co	ount:	79,096		
Ca	Categories Frequency		Cumulative	e Frequency	Percent
No/d	No/don't know 87,938		87,	938	52.25
	Yes 1,262 Missing 79,096 2 Column name:		89,200		0.75
N			168	,296	47.00
72	Column name:		height1		
72	Column name: Column descript	tion:	height1 Height [cm] - Fir	est reading	
72			Height [cm] - Fir	_	m or height > 220 cm
72	Column descript		Height [cm] - Fir	_	m or height > 220 cm
72	Column descript Source Informat Data type:		Height [cm] - Fir	_	m or height > 220 cm
72	Column descript Source Informat Data type:	ion sing value count:	Height [cm] - Fir Implausible value Numeric	_	m or height > 220 cm
	Column descript Source Informat Data type: Unique non-miss	ion sing value count:	Height [cm] - Fir Implausible value Numeric 706	_	m or height > 220 cm
M	Column descript Source Informat Data type: Unique non-miss Missing value co	ion sing value count: ount:	Height [cm] - Fir Implausible value Numeric 706 19,576	es: Height<120 c	_
M	Column descript Source Informat Data type: Unique non-miss Missing value co	sing value count: ount: Mean	Height [cm] - Fir Implausible value Numeric 706 19,576 Median	es: Height<120 cr	SD
M 121	Column descript Source Informat Data type: Unique non-miss Missing value collin	sing value count: Dunt: Mean 167.45	Height [cm] - Fir Implausible value Numeric 706 19,576 Median 167.00 height	es: Height<120 cr	SD 9.68
M 121	Column descript Source Informat Data type: Unique non-miss Missing value collin 1.00 Column name:	sing value count: Dunt: Mean 167.45	Height [cm] - Fir Implausible value Numeric 706 19,576 Median 167.00 height	Max 210.30	SD 9.68
M 121	Column descript Source Informat Data type: Unique non-miss Missing value column Column name: Column descript Data type:	sing value count: Dunt: Mean 167.45	Height [cm] - Fir Implausible value Numeric 706 19,576 Median 167.00 height Height [cm] - Av	Max 210.30	SD 9.68

Min	Mean	Median	Max	SD
121.00	167.45	167.00	210.30	9.68

Column	name:	weight1		
Column	description:	Weight [Kg] -	First reading	
Source Information		the HSE as the	e 130 kg were estimat e scales did not go abo eights above 200 kg v	ove those values.
		Implausible values:		
	Source information		ght<25 Kg; Weight >	250 Kg
			t <35 Kg; Weight > 2	50 Kg
			South African Compa SACRA) study]	rative Risk
Data type	: :	Numeric		
Unique n	on-missing value count:	1,240		
Missing	Missing value count:			
Min	Mean	Median	Max	SD
26.00	76.46	74.60	205.00	16.84

75	Column name:		Weight		
	Column description:		Weight [Kg] - Av	verage of available	readings
	Data type:		Numeric		
	Unique non-missing value count: Missing value count:		1,240		
			21,586		
	Min Mean		Median	Max	SD
2	26.00	76.46	74.60	205.00	16.84

76	Column name:	waist1
	Column description:	Waist circumference [cm] - First reading
	Source Information	Implausible values considered: waist < 30 cm or waist > 220 cm.
	Data type:	Numeric

Unique non-missing value count: 969

Missing value count: 49,628

Min	Mean	Median	Max	SD
34.00	92.04	91.40	172.20	14.33

77	Column name	:	waist2		
	Column description: Data type: Unique non-missing value count: Missing value count:		Waist circumference [cm] - Second reading		
			Numeric		
			972 49,842		
	Min	Mean	Median	Max	SD
	34.10	92.14	91.50	173.50	14.34

78	Column name	:	waist3		
	Column description: Data type: Unique non-missing value count: Missing value count:		Waist circumference [cm] - Third reading		
			Numeric		
			297		
			167,870		
	Min	Mean	Median	Max	SD
	64.80	97.37	95.85	153.50	15.02

79 Column name: waist						
	Column description: Data type: Unique non-missing value count: Missing value count:		Waist circumference [cm] - Average of available readings			
			Numeric			
			2,082			
			49,627			
	Min	Mean	Median	Max	SD	
	34.05	92.10	91.50	172.85	14.33	

80	Column	name:	hip1		
	Column description: Source Information Data type: Unique non-missing value count: Missing value count:		Hip circumference [cm] - First reading Implausible values: (Based on the distribution in the sample) Hip circumference < 40 cm or hip circumference > 230 cm Numeric 890 49,712		
	Min	Mean	Median	Max	SD
	50.00	105.44	104.20	181.20	10.20
81	Column name:		hip2		
	Column description:		Hip circumference [cm] - Second reading		
	Data type:		Numeric		
	Unique non-missing value count:		887		
	Missing value count:		49,924		
	Min	Mean	Median	Max	SD
	50.10	105.46	104.20	190.00	10.21
82	Column name:		hip3		
	Column description:		Hip circumference [cm] - Third reading		
	Data type:		Numeric		
	Unique non-missing value count:		140		
	Missing value count:		168,123		
	Min	Mean	Median	Max	SD
	84.80	111.10	109.90	190.00	14.34
83	Column name:		hip		
	Column description:		Hip circumference [cm] - Average of available reading		

Data type: Numeric Unique non-missing value count: 1,711 Missing value count: 49,710 Min Mean Median Max SD 50.05 105.46 104.25 181.25 10.21

84	Column nam	e:	sbp1		
	Column descr	iption:	Systolic Blood Pr	ressure [mmHg] - I	First reading
			Based on the orig measurements)	ginal HSE readings	(including invalid
		··	Implausible values excluded:		
	Source Information		SBP < 60 mmHg or SBP > 270 mmHg		
			_	_	they were less than nding DBP reading.
	Data type:		Numeric		
	Unique non-n	nissing value count:	314		
	Missing value	count:	52,791		
	Min	Mean	Median	Max	SD
(61.00	130.69	128.11	246.00	18.84

85	Column nam	e:	sbp2			
	Column descr	iption:	Systolic Blood l	Pressure [mmHg] - S	Second reading	
			Based on the or measurements)	Based on the original HSE readings (including invalid measurements)		
	Source Inform	ection	Implausible valu	ues excluded:		
	Source Inform	lation	SBP < 60 mmH	g or SBP > 270 mm	ıНg	
			SBP readings were set to missing if they were less than 15 mmHg greater than the corresponding DBP reading.			
	Data type:		Numeric			
	Unique non-m	issing value count:	323			
	Missing value	count:	53,113			
	Min	Mean	Median	Max	SD	

60.00 128.35	126.00	247.00	18.23

86	Column n	ame:	sbp3		
	Column de	escription:	Systolic Blood	Pressure [mmHg] - 7	Third reading
			measurements	original HSE readings) llues excluded:	(including invalid
	Source Info	ormation	SBP < 60 mmHg or SBP > 270 mmHg		
	Data type:		SBP readings	were set to missing if atter than the correspon	they were less than
			Numeric		
	Unique no	n-missing value count:	321		
	Missing va	lue count:	53,559		
	Min	Mean	Median	Max	SD
	62.00	127.50	125.38	240.00	17.77

87	Column name	e:	sbp_mean1		
	Column descri	iption:	Systolic Blood Preadings	ressure [mmHg] - A	Average of available
	Data type:		Numeric		
	Unique non-missing value count:		1,096		
	Missing value	count:	52,737		
	Min Mean		Median	Max	SD
	70.00	128.87	126.67	243.67	17.81

88	Column nam	Column name:		sbp_mean2		
	Column descr	iption:	Systolic Blood I readings exclud		Average of available	
	Data type: Unique non-missing value count: Missing value count: Min Mean		Numeric			
			688			
			53,069			
			Median	Max	SD	

	69.50	127.93	125.83	242.50	17.70
89	Column name	:	dbp1		

Column description: Diastolic Blood Pressure [mmHg] - First reading Based on the original HSE readings (including invameasurements) Implausible values excluded: DBP < 30 mmHg; DBP > 150 mmHg. DBP readings were set to missing if they were less 15 mmHg lower than the corresponding SBP reading. Numeric Unique non-missing value count: 168 Missing value count: 61,999
measurements) Implausible values excluded: DBP < 30 mmHg; DBP > 150 mmHg. DBP readings were set to missing if they were less 15 mmHg lower than the corresponding SBP readin Numeric Unique non-missing value count: 168
DBP < 30 mmHg; DBP > 150 mmHg. DBP readings were set to missing if they were less 15 mmHg lower than the corresponding SBP reading. Numeric Unique non-missing value count: 168
DBP < 30 mmHg; DBP > 150 mmHg. DBP readings were set to missing if they were less 15 mmHg lower than the corresponding SBP reading. Numeric Unique non-missing value count: 168
DBP readings were set to missing if they were less 15 mmHg lower than the corresponding SBP readin Data type: Unique non-missing value count: 168
Unique non-missing value count: 168
Missing value count: 61.999
6
Min Mean Median Max SD
60.00 76.27 75.00 160.00 9.99
Column name: dbp2
Column description: Diastolic Blood Pressure [mmHg] - Second reading
Based on the original HSE readings (including inva
measurements)
measurements) Implausible values excluded:
measurements)
measurements) Implausible values excluded: Source Information
measurements) Implausible values excluded: DBP < 30 mmHg; DBP > 150 mmHg. DBP readings were set to missing if they were less
measurements) Implausible values excluded: DBP < 30 mmHg; DBP > 150 mmHg. DBP readings were set to missing if they were less 15 mmHg lower than the corresponding SBP reading
measurements) Implausible values excluded: DBP < 30 mmHg; DBP > 150 mmHg. DBP readings were set to missing if they were less 15 mmHg lower than the corresponding SBP reading. Numeric
measurements) Implausible values excluded: DBP < 30 mmHg; DBP > 150 mmHg. DBP readings were set to missing if they were less 15 mmHg lower than the corresponding SBP reading. Numeric Unique non-missing value count: 160

91	Column name:	dbp3

Column description: Diastolic Blood Pressure [mmHg] - Third reading

Based on the original	HSE readings	(including	invalid

measurements)

Source Information Implausible values excluded:

DBP < 30 mmHg; DBP > 150 mmHg.

DBP readings were set to missing if they were less than 15 mmHg lower than the corresponding SBP reading.

Data type: Numeric

Unique non-missing value count: 161

Missing value count: 64,701

Min	Mean	Median	Max	SD
60.00	75.01	74.00	158.00	9.49

92	Column name	:	dbp_mean1		
	Column descri	ption:	Diastolic Blood Pre available readings	essure [mmHg] - Aver	age of
	Data type:		Numeric		
	Unique non-missing value count:		595		
	Missing value	count:	58,383		
	Min Mean		Median	Max	SD
	60.00	75.07	74.00	160.00	9.42

93	Column name:		dbp_mean2		
	Column description: Data type: Unique non-missing value count:		Diastolic Blood Pressure [mmHg] - Average of available readings excluding the first		
			Numeric 353		
	Missing value	count:	60,714		
	Min	Mean	Median	Max	SD
	60.00	74.86	73.80	160.00	9.37

|--|

Column description: Resting Heart Rate [ppm] - First reading

Biologically implausible values: RHR < 20 bpm; RHR > 250 bpm. (Informed by clinical opinion)

Data type: Numeric

Unique non-missing value count: 112

Source Information

Missing value count: 48,855

Min	Mean	Median	Max	SD
31.00	70.13	69.00	160.00	11.59

95	Column name:		rhr2		
	Column description: Data type: Unique non-missing value count: Missing value count:		Resting Heart R	ate [ppm] - Second	reading
			Numeric		
			109		
			49,249		
	Min	Mean	Median	Max	SD
	32.00	70.36	70.00	159.00	11.41

96	Column name:		rhr3		
	Column description: Data type: Unique non-missing value count: Missing value count:		Resting Heart	Rate [ppm] - Third rea	ading
			Numeric 108		
			59,880		
	Min	Mean	Median	Max	SD
	31.00	70.66	70.00	148.00	11.33

97	Column name:	rhr_mean1
	Column description:	Resting Heart Rate [ppm] - Average of available readings
	Data type:	Numeric
	Unique non-missing value count:	369

	Missing value count:		48,792		
	Min	Mean	Median	Max	SD
	34.00	70.39	69.67	147.67	11.15
98	Column nam	e:	rhr_mean2		
	Column description: Data type:		Resting Heart Rate [ppm] - Average of available readings excluding the first		
			Numeric		
	Unique non-n	nissing value count:	203		
	Missing value count:		49,212		
	Min	Mean	Median	Max	SD
	32.00	70.52	70.00	146.50	11.20
99	Column nam	e:	Airtemp		
	Column description:		Air temperature during blood pressure measurement [Degrees Celsius]		
			[Degrees eersi	usj	
	Data type:		Numeric	uoj	
		nissing value count:	-	usj	
		-	Numeric	usj	
	Unique non-n	-	Numeric 265	Max	SD
	Unique non-n Missing value	e count:	Numeric 265 53,547		SD 2.38
100	Unique non-n Missing value Min	Mean 20.70	Numeric 265 53,547 Median	Max	
100	Unique non-n Missing value Min 0.00	Mean 20.70	Numeric 265 53,547 Median 20.60	Max	
100	Unique non-n Missing value Min 0.00 Column nam	Mean 20.70 e: ciption:	Numeric 265 53,547 Median 20.60 bmi BMI [kg/m²] Calculated usin Implausible va kg/m² or BMI> Vinogradova, Vinogrado	Max 38.70 ag the height and weightes removed from the 131 kg/m². Ref: Iyen Y. et al. Long-term because in the 131 kg/m² and obese addressed and the 131 kg/m² and obese addressed for 260,000 adults.	ght measurements. e dataset: BMI < 10 , B., Weng, S., ody mass index ults and the risk of and mortality: a in the UK. BMC

Unique non-missing value count: 96,331

Missing value count: 24,757

Underweight

Missing

Min	Mean	Median	Max	SD
11.81	27.17	26.47	69.14	5.23

101	Column name:		bmicat	
	Column description:		BMI category	
Source information:		$\label{eq:continuous_section} \begin{split} &Underweight = BMI < 18.5 \ kg/m^2. \ Healthy \ weight = \\ &18.5 \ kg/m2 < BMI < 25 \ kg/m^2. \ Overweight = 25 \ kg/m^2 \\ &< BMI < 30 \ kg/m^2. \ Obesity \ I = 30 \ kg/m^2 < BMI < 35 \\ &kg/m^2. \ Obesity \ II = 35 \ kg/m^2 < BMI < 40 \ kg/m^2. \\ &Obesity \ III = 40 \ kg/m^2 < BMI \end{split}$		
	Data type: Unique non-missing value count:		Factor	
			6	
	Missing value of	count:	24,757	
(Categories	Frequency	Cumulative Frequency	Percent
Не	althy weight	51,413	51,413	30.55
	Obesity I		75,758	14.47
(Obesity II	7,915	83,673	4.70
(Obesity III	3,271	86,944	1.94
C	Overweight		141,327	32.31

102	Column name:	chol_tot
	Column description:	Total cholesterol [mmol/l]
		Includes those on lipid lowering drugs.
	Source information:	Implausible values were considered to be those with total cholesterol <1.75 mmol/L (7 individuals), >20 mmol/L (0 individuals), or where total cholesterol was lower than HDL cholesterol (0 individuals), following the method used by the NCD Risk Factor Collaboration.

143,539

168,296

1.31

14.71

2,212

24,757

NCD Risk Factor Collaboration (NCD-RisC). (2020).
Repositioning of the global epicentre of non-optimal

cholesterol. Nature, 582(7810), 73–77. https://doi.org/10.1038/s41586-020-2338-1.

Numeric

Unique non-missing value count: 105

Missing value count: 99,947

Min	Mean	Median	Max	SD
1.80	5.34	5.30	15.30	1.17

03	Column name:	chol_hdl		
	Column description:	High-density li	poprotein (HDL) cho	olesterol [mmol/l]
		Includes those	on lipid lowering dru	ıgs.
	Source information:	Implausible values were considered to be those w HDL cholesterol <0.40 mmol/L (9 individuals), > mmol/L (0 individuals), or where total cholesterol lower than HDL cholesterol (0 individuals) follow the method used by NCD- RisC.		ndividuals), >5.00 otal cholesterol wa
		Repositioning cholesterol. Na	for Collaboration (Notes the global epicentriture, 582(7810), 73–10.1038/s41586-020-	re of non-optimal 77.
	Data type:	Numeric		
	Unique non-missing value count:	44		
	Missing value count:	99,970		
	Min Mean	Median	Max	SD
	0.40 1.56	1.50	4.90	0.43
4	Column name:	glyhb_h		
	Column description:	Glycated haem	oglobin (HbA1c) (%)
		Based on the vathe HSE.	alid glycated haemog	globin variables in

Source information:

HbA1c < 2.5% or > 25% (none) were considered

implausible (Nicholas et al., 2013:

https://doi.org/10.1371/journal.pone.0068008)

Data type	: :	Numeric		
Unique n	on-missing value co	unt:		
Missing	value count:			
Min	Mean	Median	Max	SD

105	Column name	e:	hba1c		
	Column description:		HbA1c (mmol/mol)		
	Source information:		Glycated haemoglobin in mmol/mol are only available from 2012 onward (variables iffcvala IFCCA1, harmonised in the present dataset as glyhb2_h). For consistency across years, HbA1c was derived for all years from plausible values of the glyhb variable above and converted to mmol/mol using the following equation:		
			mmol/mol = 10.93 *	% - 23.5 mmol/mol	
			Table. Available onl	ty.com.au/documents/	
	Data type:		Numeric		
	Unique non-m	Unique non-missing value count:			
	Missing value	count:			
	Min	Mean	Median	Max	SD

106 Column name:	globorisk_nonlab
Column description:	Globorisk CVD non laboratory risk score
Source information:	10 years risk of developing a fatal or non-fatal cardiovascular event. Function of age, sex, smoking status, systolic blood pressure and BMI. Ref: Ueda P et al. Laboratory-Based and Office-Based Risk Scores and Charts to Predict 10-Year Risk of Cardiovascular Disease in 182 Countries: A Pooled Analysis of Prospective Cohorts and Health Surveys. The Lancet Diabetes & Endocrinology 5, no. 3 (March 1, 2017): 196–213. Calculated using sbp_mean2 variable for systolic blood pressure. Defined for age between 40 and 74 years.

I	Data type:		Numeric		
τ	Unique non-missing value count: Missing value count:		61,593		
1			106,703		
Min	1	Mean	Median	Max	SD
0.27	7	8.11	6.03	85.64	7.26

107	Column name	e:	globorisk_lab		
	Column description:		Globorisk CVD lal	ooratory risk sco	re
	Source information:		10-year risk of developing a fatal or non-fatal cardiovascular event. Function of age, sex, smoking status, systolic blood pressure, total cholesterol and diabetes mellitus status. Ref: Ueda P et al. Laboratory-Based and Office-Based Risk Scores and Charts to Predict 10-Year Risk of Cardiovascular Disease in 182 Countries: A Pooled Analysis of Prospective Cohorts and Health Surveys. The Lancet Diabetes & Endocrinology 5, no. 3 (March 1, 2017): 196–213. Calculated using sbp_mean2 variable for systolic blood pressure. Defined for age between 40 and 74 years.		
	Data type:		Numeric		
	Unique non-m	issing value count:	35,625		
	Missing value count:		132,443		
	Min	Mean	Median	Max	SD
	0.24	7.49	5.33	89.64	7.22

108	Column name:	globorisk_lab_fatal
	Column description:	Globorisk CVD fatal risk score
	Source information:	10 years risk of dying from a cardiovascular event. Function of age, sex, smoking status, systolic blood pressure, total cholesterol and diabetes mellitus status. Ref: Ueda P et al. Laboratory-Based and Office-Based Risk Scores and Charts to Predict 10-Year Risk of Cardiovascular Disease in 182 Countries: A Pooled Analysis of Prospective Cohorts and Health Surveys. The Lancet Diabetes & Endocrinology 5, no. 3 (March 1, 2017): 196–213. Calculated using sbp_mean2 variable for systolic blood pressure. Defined for age between 40 and 74 years.

Data type	Data type:			
Unique non-missing value count:		35,413		
Missing v	Missing value count:			
Min	Mean	Median	Max	SD
0.03	2.86	1.38	59.85	4.05

109	Column name	2:	who_nonlab		
	Column description:		WHO/ISH CVD	non-laboratory risk	score
	Source inform	ation:	10 years risk of developing a fatal or non-fatal cardiovascular event. Function of age, sex, smoking status, systolic blood pressure and BMI. Ref: Kaptoge et Al. (2019). World Health Organization cardiovascular disease risk charts: Revised models to estimate risk in 21 global regions. The Lancet Global Health, 7(10), e1332–e1345. https://doi.org/10.1016/S2214-109X(19)30318-3. Calculated using sbp_mean2 variable for systolic bloo pressure. Defined for age between 40 and 80 years.		ye, sex, smoking MI. Ref: Kaptoge S vation evised models to the Lancet Global (19)30318-3. e for systolic blood
	Data type:		Numeric		
	Unique non-missing value count:		66,439		
	Missing value count:		101,812		
	Min	Mean	Median	Max	SD
	0.19	8.55	5.97	63.36	7.82

110	Column name:	who_lab
	Column description:	WHO/ISH CVD non-laboratory risk score
	Source information:	10-year risk of developing a fatal or non-fatal cardiovascular event. Function of age, sex, smoking status, systolic blood pressure, total cholesterol and diabetes mellitus status. Ref: Kaptoge S et Al. (2019). World Health Organization cardiovascular disease risk charts: Revised models to estimate risk in 21 global regions. The Lancet Global Health, 7(10), e1332–e1345. https://doi.org/10.1016/S2214-109X(19)30318-3. Calculated using sbp_mean2 variable for systolic blood pressure. Defined for age between 40 and 80 years.
	Data type:	Numeric

Unique non-missing value count: 37,219

Missing value count: 129,637

Min	Mean	Median	Max	SD
0.20	8.27	5.83	85.05	7.69

111	Column name:		fhs_nonlab		
	Column description: Source information: Data type: Unique non-missing value count: Missing value count:		Framingham CVD non-laboratory risk score		
			10-year risk of developing a fatal or non-fatal cardiovascular event. Function of age, sex, smoking status, systolic blood pressure, BMI, diabetes status and use of antihypertensive medication. Ref. D'Agostino R et Al. General Cardiovascular Risk Profile for Use in Primary Care. Circulation 117(6);2008:743–53 Calculated using sbp_mean2 variable for systolic blood pressure. Defined for age between 30 and 74 years. Numeric 2,895		
			117,028		
	Min Mean		Median	Max	SD
1.00 11.53		11.53	8.16	30.00	9.53